

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	23.89	23.35	34.77	PASS
Band17	5MHz	QPSK	23755	12RB#0	23.02	22.48	34.77	PASS
Band17	5MHz	QPSK	23755	25RB#0	23.02	22.48	34.77	PASS
Band17	5MHz	QPSK	23755	12RB#6	23.08	22.54	34.77	PASS
Band17	5MHz	QPSK	23755	1RB#12	24.10	23.56	34.77	PASS
Band17	5MHz	QPSK	23755	12RB#13	23.00	22.46	34.77	PASS
Band17	5MHz	QPSK	23755	1RB#24	23.91	23.37	34.77	PASS
Band17	5MHz	QPSK	23790	1RB#0	24.03	23.49	34.77	PASS
Band17	5MHz	QPSK	23790	12RB#0	22.96	22.42	34.77	PASS
Band17	5MHz	QPSK	23790	25RB#0	22.94	22.4	34.77	PASS
Band17	5MHz	QPSK	23790	12RB#6	23.06	22.52	34.77	PASS
Band17	5MHz	QPSK	23790	1RB#12	23.97	23.43	34.77	PASS
Band17	5MHz	QPSK	23790	12RB#13	23.01	22.47	34.77	PASS
Band17	5MHz	QPSK	23790	1RB#24	23.87	23.33	34.77	PASS
Band17	5MHz	QPSK	23825	1RB#0	23.95	23.41	34.77	PASS
Band17	5MHz	QPSK	23825	12RB#0	23.02	22.48	34.77	PASS
Band17	5MHz	QPSK	23825	25RB#0	23.03	22.49	34.77	PASS
Band17	5MHz	QPSK	23825	12RB#6	23.10	22.56	34.77	PASS
Band17	5MHz	QPSK	23825	1RB#12	23.97	23.43	34.77	PASS
Band17	5MHz	QPSK	23825	12RB#13	23.08	22.54	34.77	PASS
Band17	5MHz	QPSK	23825	1RB#24	23.94	23.4	34.77	PASS
Band17	5MHz	16QAM	23755	1RB#0	23.44	22.9	34.77	PASS
Band17	5MHz	16QAM	23755	12RB#0	22.01	21.47	34.77	PASS
Band17	5MHz	16QAM	23755	25RB#0	21.99	21.45	34.77	PASS
Band17	5MHz	16QAM	23755	12RB#6	22.08	21.54	34.77	PASS
Band17	5MHz	16QAM	23755	1RB#12	23.25	22.71	34.77	PASS
Band17	5MHz	16QAM	23755	12RB#13	22.09	21.55	34.77	PASS
Band17	5MHz	16QAM	23755	1RB#24	23.10	22.56	34.77	PASS
Band17	5MHz	16QAM	23790	1RB#0	23.28	22.74	34.77	PASS
Band17	5MHz	16QAM	23790	12RB#0	22.02	21.48	34.77	PASS
Band17	5MHz	16QAM	23790	25RB#0	22.04	21.5	34.77	PASS
Band17	5MHz	16QAM	23790	12RB#6	22.02	21.48	34.77	PASS
Band17	5MHz	16QAM	23790	1RB#12	23.36	22.82	34.77	PASS
Band17	5MHz	16QAM	23790	12RB#13	22.10	21.56	34.77	PASS
Band17	5MHz	16QAM	23790	1RB#24	23.08	22.54	34.77	PASS
Band17	5MHz	16QAM	23825	1RB#0	23.31	22.77	34.77	PASS

Band17	5MHz	16QAM	23825	12RB#0	22.14	21.6	34.77	PASS
Band17	5MHz	16QAM	23825	25RB#0	22.09	21.55	34.77	PASS
Band17	5MHz	16QAM	23825	12RB#6	22.08	21.54	34.77	PASS
Band17	5MHz	16QAM	23825	1RB#12	23.41	22.87	34.77	PASS
Band17	5MHz	16QAM	23825	12RB#13	22.10	21.56	34.77	PASS
Band17	5MHz	16QAM	23825	1RB#24	23.42	22.88	34.77	PASS
Band17	5MHz	64QAM	23755	1RB#0	22.14	21.6	34.77	PASS
Band17	5MHz	64QAM	23755	12RB#0	20.87	20.33	34.77	PASS
Band17	5MHz	64QAM	23755	25RB#0	20.83	20.29	34.77	PASS
Band17	5MHz	64QAM	23755	12RB#6	20.90	20.36	34.77	PASS
Band17	5MHz	64QAM	23755	1RB#12	22.05	21.51	34.77	PASS
Band17	5MHz	64QAM	23755	12RB#13	20.91	20.37	34.77	PASS
Band17	5MHz	64QAM	23755	1RB#24	21.79	21.25	34.77	PASS
Band17	5MHz	64QAM	23790	1RB#0	21.97	21.43	34.77	PASS
Band17	5MHz	64QAM	23790	12RB#0	20.92	20.38	34.77	PASS
Band17	5MHz	64QAM	23790	25RB#0	20.90	20.36	34.77	PASS
Band17	5MHz	64QAM	23790	12RB#6	20.95	20.41	34.77	PASS
Band17	5MHz	64QAM	23790	1RB#12	22.18	21.64	34.77	PASS
Band17	5MHz	64QAM	23790	12RB#13	20.88	20.34	34.77	PASS
Band17	5MHz	64QAM	23790	1RB#24	21.87	21.33	34.77	PASS
Band17	5MHz	64QAM	23825	1RB#0	22.04	21.5	34.77	PASS
Band17	5MHz	64QAM	23825	12RB#0	21.00	20.46	34.77	PASS
Band17	5MHz	64QAM	23825	25RB#0	20.98	20.44	34.77	PASS
Band17	5MHz	64QAM	23825	12RB#6	20.96	20.42	34.77	PASS
Band17	5MHz	64QAM	23825	1RB#12	22.11	21.57	34.77	PASS
Band17	5MHz	64QAM	23825	12RB#13	21.01	20.47	34.77	PASS
Band17	5MHz	64QAM	23825	1RB#24	21.96	21.42	34.77	PASS
Band17	5MHz	256QAM	23755	1RB#0	19.23	18.69	34.77	PASS
Band17	5MHz	256QAM	23755	12RB#0	19.07	18.53	34.77	PASS
Band17	5MHz	256QAM	23755	25RB#0	19.07	18.53	34.77	PASS
Band17	5MHz	256QAM	23755	12RB#6	19.10	18.56	34.77	PASS
Band17	5MHz	256QAM	23755	1RB#12	19.39	18.85	34.77	PASS
Band17	5MHz	256QAM	23755	12RB#13	18.94	18.4	34.77	PASS
Band17	5MHz	256QAM	23755	1RB#24	19.27	18.73	34.77	PASS
Band17	5MHz	256QAM	23790	1RB#0	19.21	18.67	34.77	PASS
Band17	5MHz	256QAM	23790	12RB#0	19.03	18.49	34.77	PASS
Band17	5MHz	256QAM	23790	25RB#0	18.98	18.44	34.77	PASS
Band17	5MHz	256QAM	23790	12RB#6	19.15	18.61	34.77	PASS
Band17	5MHz	256QAM	23790	1RB#12	19.20	18.66	34.77	PASS
Band17	5MHz	256QAM	23790	12RB#13	19.03	18.49	34.77	PASS
Band17	5MHz	256QAM	23790	1RB#24	19.09	18.55	34.77	PASS
Band17	5MHz	256QAM	23825	1RB#0	19.20	18.66	34.77	PASS
Band17	5MHz	256QAM	23825	12RB#0	19.04	18.5	34.77	PASS
Band17	5MHz	256QAM	23825	25RB#0	19.13	18.59	34.77	PASS
Band17	5MHz	256QAM	23825	12RB#6	19.13	18.59	34.77	PASS

Band17	5MHz	256QAM	23825	1RB#12	19.32	18.78	34.77	PASS
Band17	5MHz	256QAM	23825	12RB#13	19.08	18.54	34.77	PASS
Band17	5MHz	256QAM	23825	1RB#24	19.19	18.65	34.77	PASS
Band17	10MHz	QPSK	23780	1RB#0	23.90	23.36	34.77	PASS
Band17	10MHz	QPSK	23780	25RB#0	23.01	22.47	34.77	PASS
Band17	10MHz	QPSK	23780	50RB#0	22.95	22.41	34.77	PASS
Band17	10MHz	QPSK	23780	25RB#12	23.04	22.5	34.77	PASS
Band17	10MHz	QPSK	23780	1RB#24	23.97	23.43	34.77	PASS
Band17	10MHz	QPSK	23780	25RB#25	23.02	22.48	34.77	PASS
Band17	10MHz	QPSK	23780	1RB#49	23.87	23.33	34.77	PASS
Band17	10MHz	QPSK	23790	1RB#0	23.97	23.43	34.77	PASS
Band17	10MHz	QPSK	23790	25RB#0	23.05	22.51	34.77	PASS
Band17	10MHz	QPSK	23790	50RB#0	22.98	22.44	34.77	PASS
Band17	10MHz	QPSK	23790	25RB#12	23.05	22.51	34.77	PASS
Band17	10MHz	QPSK	23790	1RB#24	23.95	23.41	34.77	PASS
Band17	10MHz	QPSK	23790	25RB#25	23.01	22.47	34.77	PASS
Band17	10MHz	QPSK	23790	1RB#49	24.02	23.48	34.77	PASS
Band17	10MHz	QPSK	23800	1RB#0	23.94	23.4	34.77	PASS
Band17	10MHz	QPSK	23800	25RB#0	23.07	22.53	34.77	PASS
Band17	10MHz	QPSK	23800	50RB#0	23.00	22.46	34.77	PASS
Band17	10MHz	QPSK	23800	25RB#12	23.00	22.46	34.77	PASS
Band17	10MHz	QPSK	23800	1RB#24	23.92	23.38	34.77	PASS
Band17	10MHz	QPSK	23800	25RB#25	23.08	22.54	34.77	PASS
Band17	10MHz	QPSK	23800	1RB#49	24.05	23.51	34.77	PASS
Band17	10MHz	16QAM	23780	1RB#0	23.12	22.58	34.77	PASS
Band17	10MHz	16QAM	23780	25RB#0	22.07	21.53	34.77	PASS
Band17	10MHz	16QAM	23780	50RB#0	22.05	21.51	34.77	PASS
Band17	10MHz	16QAM	23780	25RB#12	22.09	21.55	34.77	PASS
Band17	10MHz	16QAM	23780	1RB#24	23.43	22.89	34.77	PASS
Band17	10MHz	16QAM	23780	25RB#25	22.08	21.54	34.77	PASS
Band17	10MHz	16QAM	23780	1RB#49	23.28	22.74	34.77	PASS
Band17	10MHz	16QAM	23790	1RB#0	23.21	22.67	34.77	PASS
Band17	10MHz	16QAM	23790	25RB#0	22.14	21.6	34.77	PASS
Band17	10MHz	16QAM	23790	50RB#0	22.05	21.51	34.77	PASS
Band17	10MHz	16QAM	23790	25RB#12	22.08	21.54	34.77	PASS
Band17	10MHz	16QAM	23790	1RB#24	23.33	22.79	34.77	PASS
Band17	10MHz	16QAM	23790	25RB#25	22.07	21.53	34.77	PASS
Band17	10MHz	16QAM	23790	1RB#49	23.28	22.74	34.77	PASS
Band17	10MHz	16QAM	23800	1RB#0	23.21	22.67	34.77	PASS
Band17	10MHz	16QAM	23800	25RB#0	22.08	21.54	34.77	PASS
Band17	10MHz	16QAM	23800	50RB#0	22.03	21.49	34.77	PASS
Band17	10MHz	16QAM	23800	25RB#12	22.06	21.52	34.77	PASS
Band17	10MHz	16QAM	23800	1RB#24	23.18	22.64	34.77	PASS
Band17	10MHz	16QAM	23800	25RB#25	22.10	21.56	34.77	PASS
Band17	10MHz	16QAM	23800	1RB#49	23.27	22.73	34.77	PASS

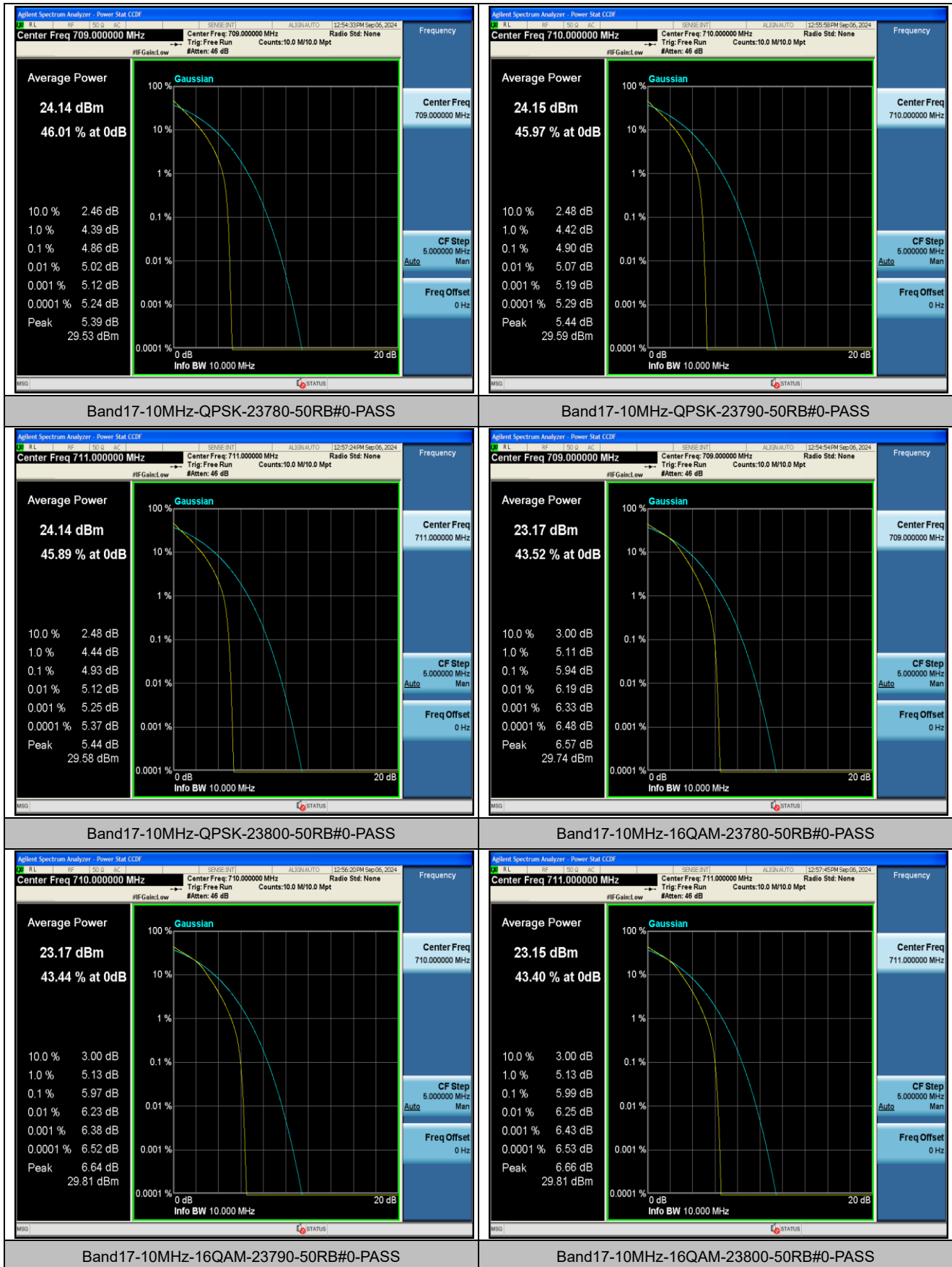
Band17	10MHz	64QAM	23780	1RB#0	21.94	21.4	34.77	PASS
Band17	10MHz	64QAM	23780	25RB#0	20.97	20.43	34.77	PASS
Band17	10MHz	64QAM	23780	50RB#0	21.01	20.47	34.77	PASS
Band17	10MHz	64QAM	23780	25RB#12	20.97	20.43	34.77	PASS
Band17	10MHz	64QAM	23780	1RB#24	22.13	21.59	34.77	PASS
Band17	10MHz	64QAM	23780	25RB#25	20.89	20.35	34.77	PASS
Band17	10MHz	64QAM	23780	1RB#49	21.92	21.38	34.77	PASS
Band17	10MHz	64QAM	23790	1RB#0	22.09	21.55	34.77	PASS
Band17	10MHz	64QAM	23790	25RB#0	20.91	20.37	34.77	PASS
Band17	10MHz	64QAM	23790	50RB#0	20.91	20.37	34.77	PASS
Band17	10MHz	64QAM	23790	25RB#12	20.89	20.35	34.77	PASS
Band17	10MHz	64QAM	23790	1RB#24	22.19	21.65	34.77	PASS
Band17	10MHz	64QAM	23790	25RB#25	20.99	20.45	34.77	PASS
Band17	10MHz	64QAM	23790	1RB#49	21.97	21.43	34.77	PASS
Band17	10MHz	64QAM	23800	1RB#0	22.07	21.53	34.77	PASS
Band17	10MHz	64QAM	23800	25RB#0	20.90	20.36	34.77	PASS
Band17	10MHz	64QAM	23800	50RB#0	20.91	20.37	34.77	PASS
Band17	10MHz	64QAM	23800	25RB#12	20.95	20.41	34.77	PASS
Band17	10MHz	64QAM	23800	1RB#24	22.20	21.66	34.77	PASS
Band17	10MHz	64QAM	23800	25RB#25	20.98	20.44	34.77	PASS
Band17	10MHz	64QAM	23800	1RB#49	22.00	21.46	34.77	PASS
Band17	10MHz	256QAM	23780	1RB#0	19.03	18.49	34.77	PASS
Band17	10MHz	256QAM	23780	25RB#0	18.87	18.33	34.77	PASS
Band17	10MHz	256QAM	23780	50RB#0	19.08	18.54	34.77	PASS
Band17	10MHz	256QAM	23780	25RB#12	19.11	18.57	34.77	PASS
Band17	10MHz	256QAM	23780	1RB#24	19.18	18.64	34.77	PASS
Band17	10MHz	256QAM	23780	25RB#25	19.02	18.48	34.77	PASS
Band17	10MHz	256QAM	23780	1RB#49	19.11	18.57	34.77	PASS
Band17	10MHz	256QAM	23790	1RB#0	19.17	18.63	34.77	PASS
Band17	10MHz	256QAM	23790	25RB#0	19.16	18.62	34.77	PASS
Band17	10MHz	256QAM	23790	50RB#0	19.09	18.55	34.77	PASS
Band17	10MHz	256QAM	23790	25RB#12	19.09	18.55	34.77	PASS
Band17	10MHz	256QAM	23790	1RB#24	19.24	18.7	34.77	PASS
Band17	10MHz	256QAM	23790	25RB#25	19.18	18.64	34.77	PASS
Band17	10MHz	256QAM	23790	1RB#49	19.03	18.49	34.77	PASS
Band17	10MHz	256QAM	23800	1RB#0	19.19	18.65	34.77	PASS
Band17	10MHz	256QAM	23800	25RB#0	19.10	18.56	34.77	PASS
Band17	10MHz	256QAM	23800	50RB#0	19.05	18.51	34.77	PASS
Band17	10MHz	256QAM	23800	25RB#12	19.02	18.48	34.77	PASS
Band17	10MHz	256QAM	23800	1RB#24	19.08	18.54	34.77	PASS
Band17	10MHz	256QAM	23800	25RB#25	18.87	18.33	34.77	PASS
Band17	10MHz	256QAM	23800	1RB#49	19.17	18.63	34.77	PASS

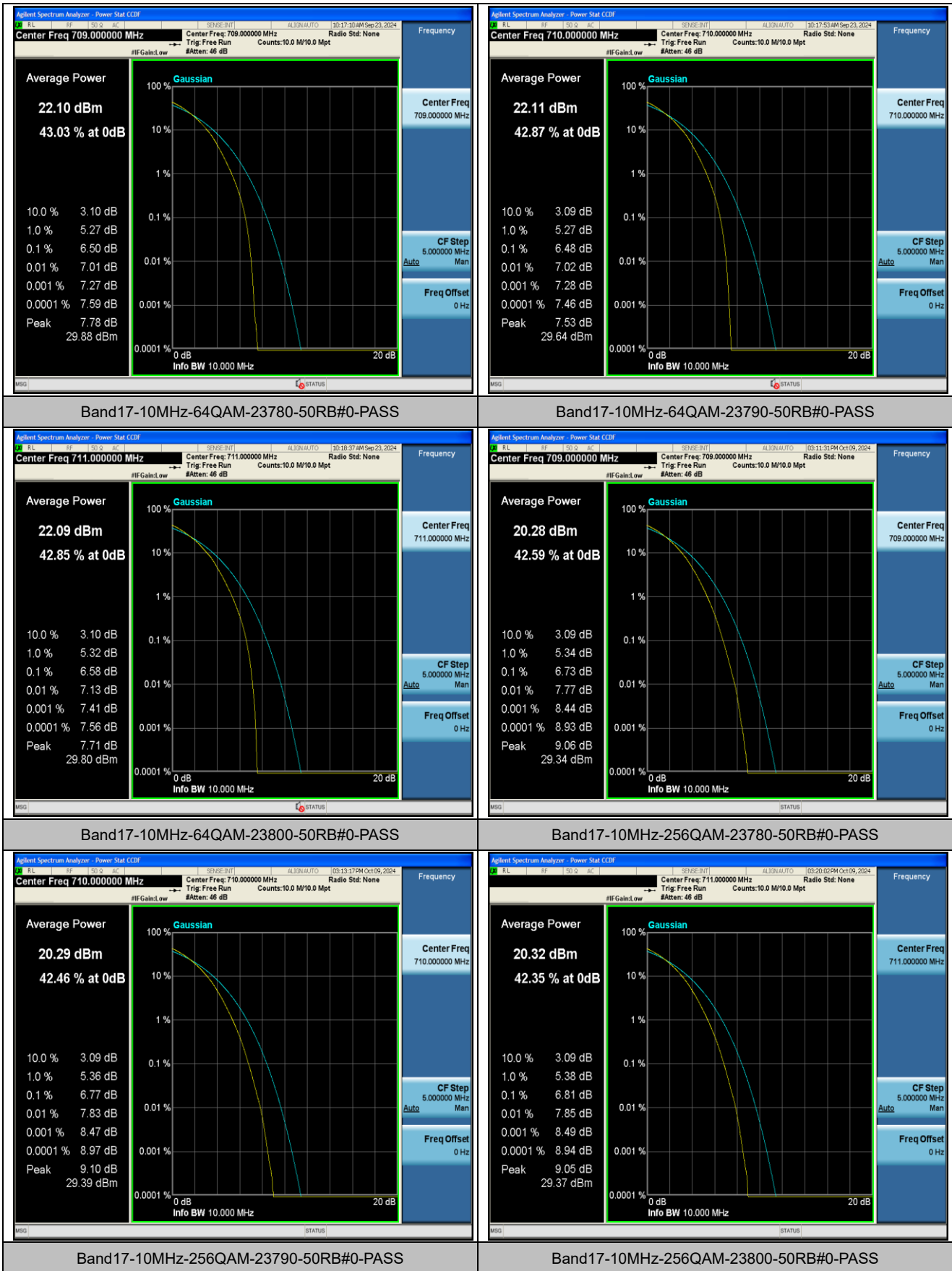
Peak-to-Average Ratio(CCDF)

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result (dB)	Limit (dB)	Verdict
Band17	10MHz	QPSK	23780	50RB#0	4.86	13	PASS
Band17	10MHz	QPSK	23790	50RB#0	4.90	13	PASS
Band17	10MHz	QPSK	23800	50RB#0	4.93	13	PASS
Band17	10MHz	16QAM	23780	50RB#0	5.94	13	PASS
Band17	10MHz	16QAM	23790	50RB#0	5.97	13	PASS
Band17	10MHz	16QAM	23800	50RB#0	5.99	13	PASS
Band17	10MHz	64QAM	23780	50RB#0	6.50	13	PASS
Band17	10MHz	64QAM	23790	50RB#0	6.48	13	PASS
Band17	10MHz	64QAM	23800	50RB#0	6.58	13	PASS
Band17	10MHz	256QAM	23780	50RB#0	6.73	13	PASS
Band17	10MHz	256QAM	23790	50RB#0	6.77	13	PASS
Band17	10MHz	256QAM	23800	50RB#0	6.81	13	PASS

Test Graphs



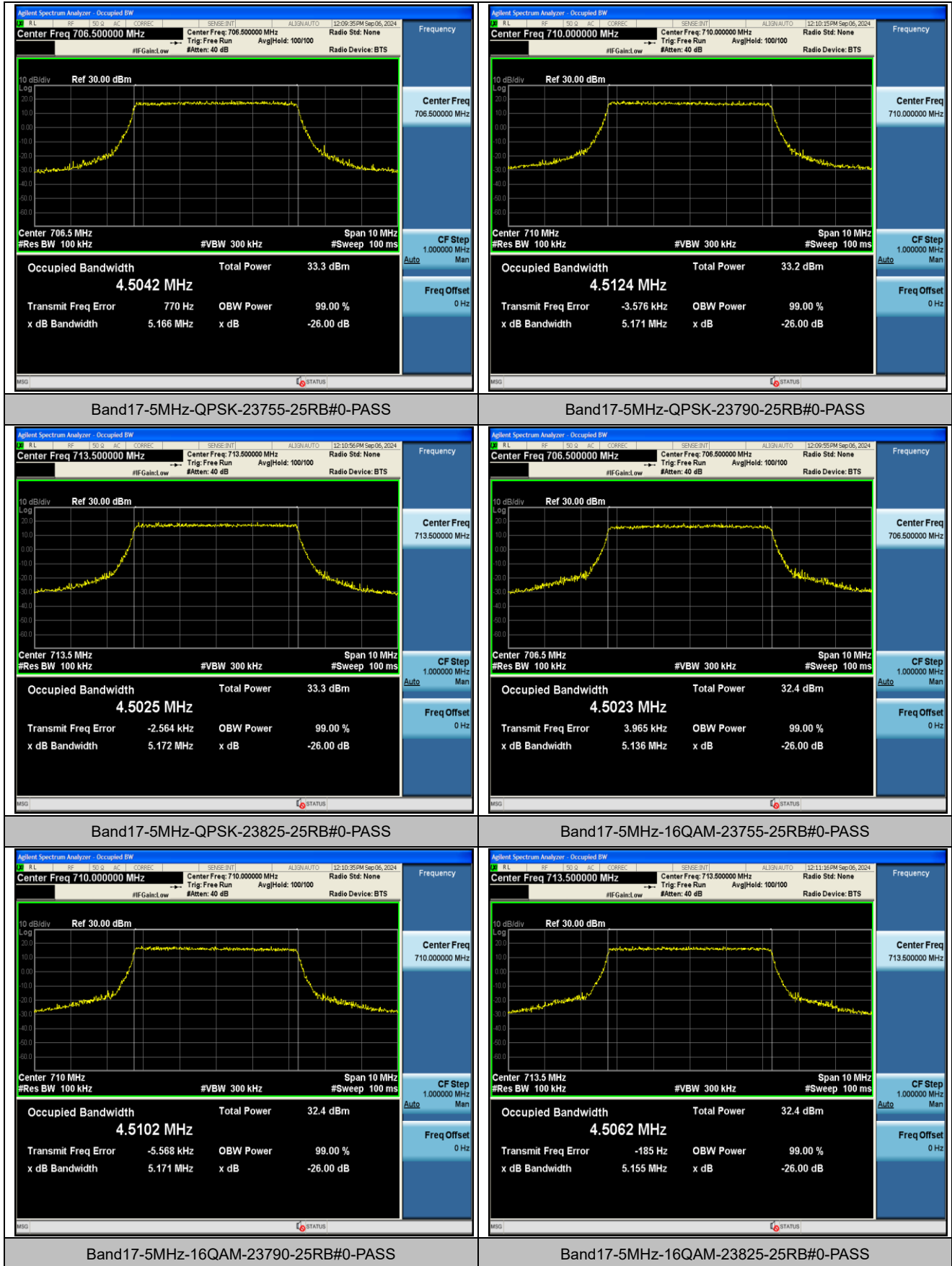


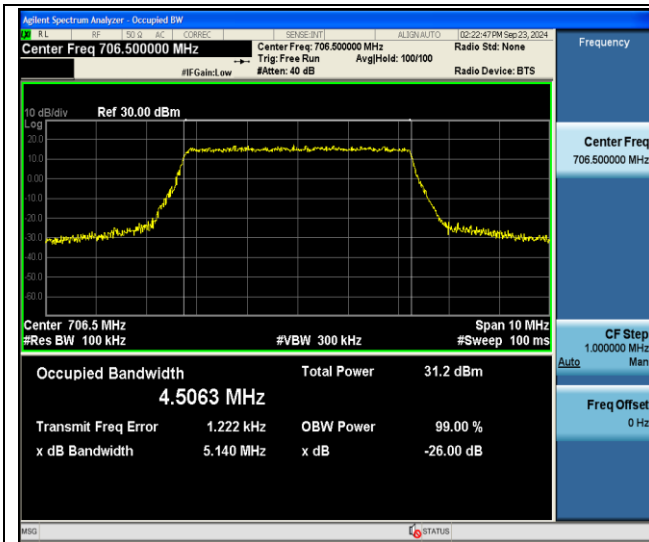
26dB Bandwidth and Occupied Bandwidth

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	OBW (MHz)	26dB EBW (MHz)	Verdict
Band17	5MHz	QPSK	23755	25RB#0	4.5042	5.166	PASS
Band17	5MHz	QPSK	23790	25RB#0	4.5124	5.171	PASS
Band17	5MHz	QPSK	23825	25RB#0	4.5025	5.172	PASS
Band17	5MHz	16QAM	23755	25RB#0	4.5023	5.136	PASS
Band17	5MHz	16QAM	23790	25RB#0	4.5102	5.171	PASS
Band17	5MHz	16QAM	23825	25RB#0	4.5062	5.155	PASS
Band17	5MHz	64QAM	23755	25RB#0	4.5063	5.140	PASS
Band17	5MHz	64QAM	23790	25RB#0	4.5054	5.085	PASS
Band17	5MHz	64QAM	23825	25RB#0	4.5084	5.212	PASS
Band17	5MHz	256QAM	23755	25RB#0	4.4954	5.106	PASS
Band17	5MHz	256QAM	23790	25RB#0	4.5050	5.106	PASS
Band17	5MHz	256QAM	23825	25RB#0	4.5095	5.113	PASS
Band17	10MHz	QPSK	23780	50RB#0	8.9893	9.972	PASS
Band17	10MHz	QPSK	23790	50RB#0	8.9880	9.980	PASS
Band17	10MHz	QPSK	23800	50RB#0	8.9986	10.03	PASS
Band17	10MHz	16QAM	23780	50RB#0	8.9862	10.04	PASS
Band17	10MHz	16QAM	23790	50RB#0	8.9955	10.01	PASS
Band17	10MHz	16QAM	23800	50RB#0	9.0282	10.07	PASS
Band17	10MHz	64QAM	23780	50RB#0	8.9837	10.07	PASS
Band17	10MHz	64QAM	23790	50RB#0	9.0221	10.03	PASS
Band17	10MHz	64QAM	23800	50RB#0	8.9991	9.982	PASS
Band17	10MHz	256QAM	23780	50RB#0	8.9809	9.851	PASS
Band17	10MHz	256QAM	23790	50RB#0	9.0130	10.13	PASS
Band17	10MHz	256QAM	23800	50RB#0	9.0068	10.02	PASS

Test Graphs

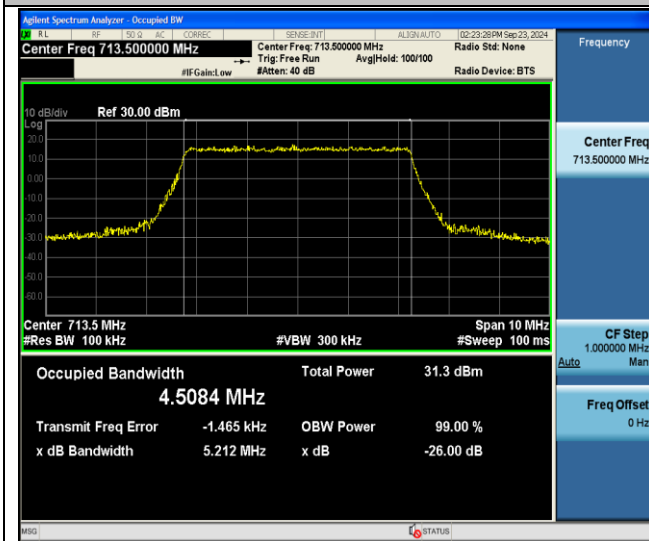




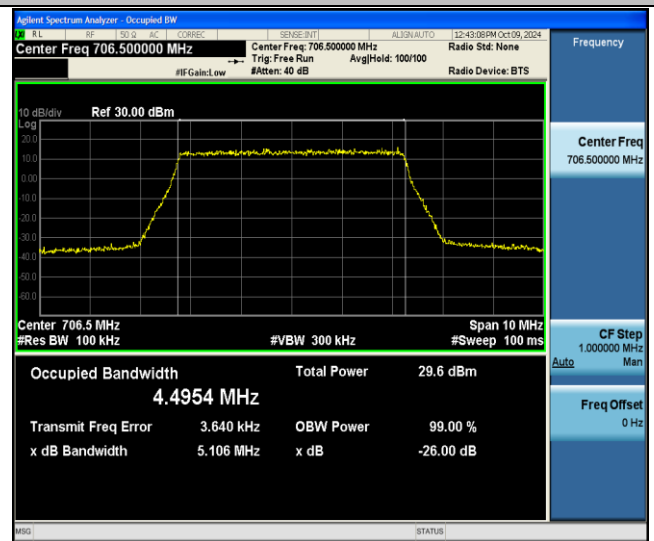
Band17-5MHz-64QAM-23755-25RB#0-PASS



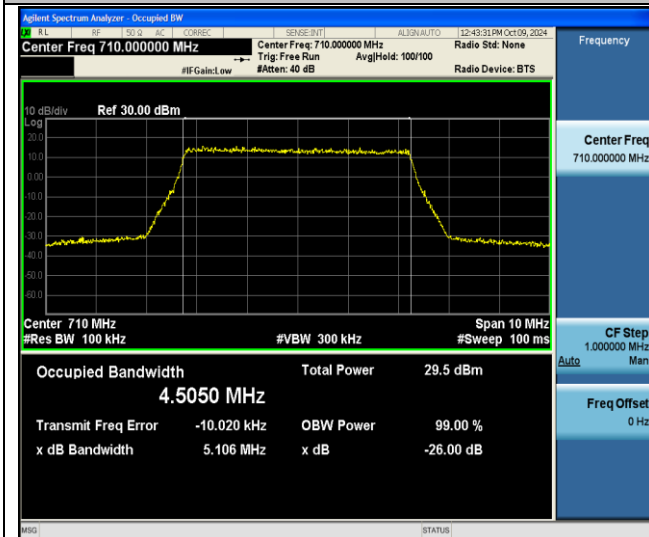
Band17-5MHz-64QAM-23790-25RB#0-PASS



Band17-5MHz-64QAM-23825-25RB#0-PASS



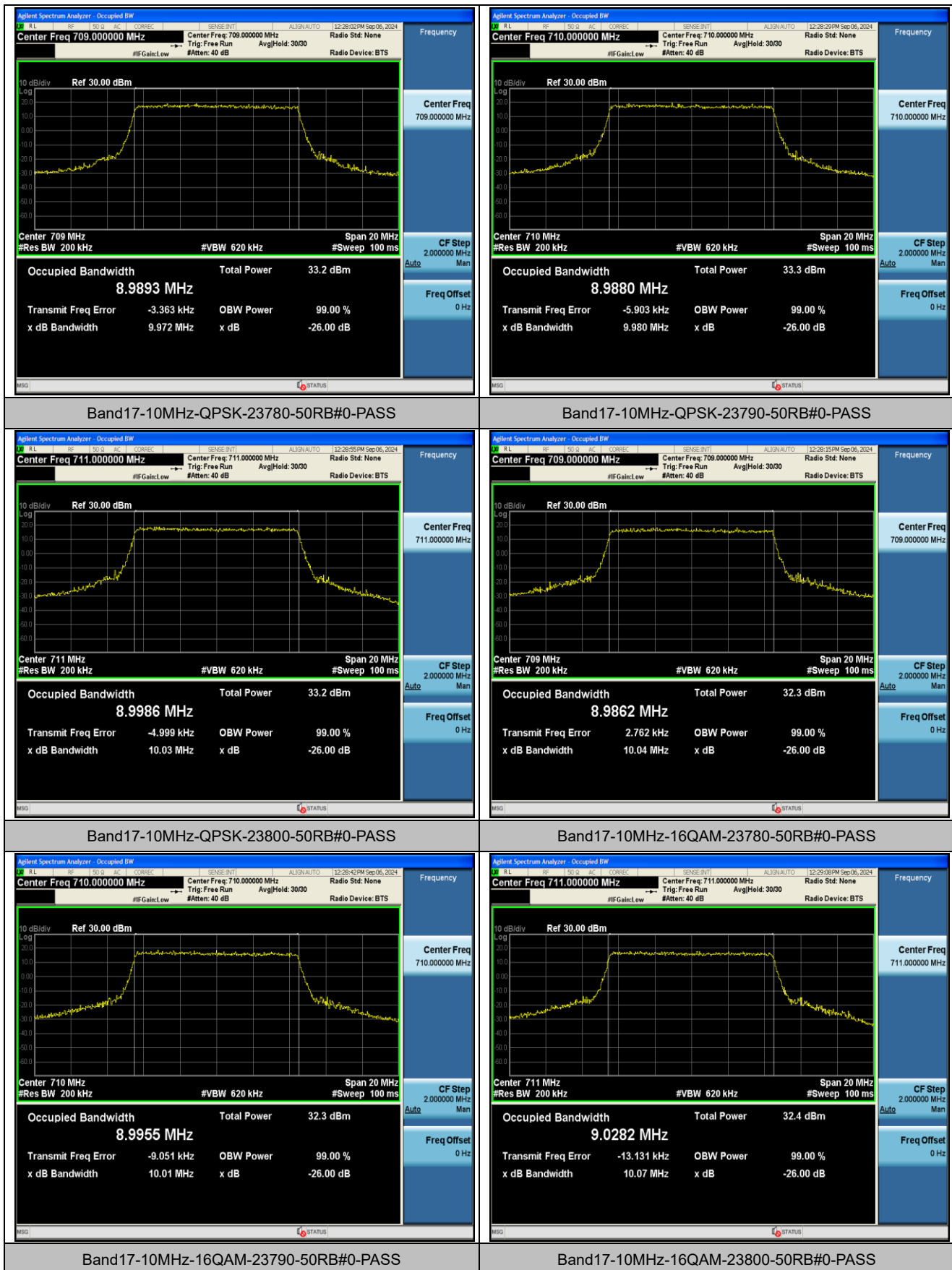
Band17-5MHz-256QAM-23755-25RB#0-PASS



Band17-5MHz-256QAM-23790-25RB#0-PASS



Band17-5MHz-256QAM-23825-25RB#0-PASS



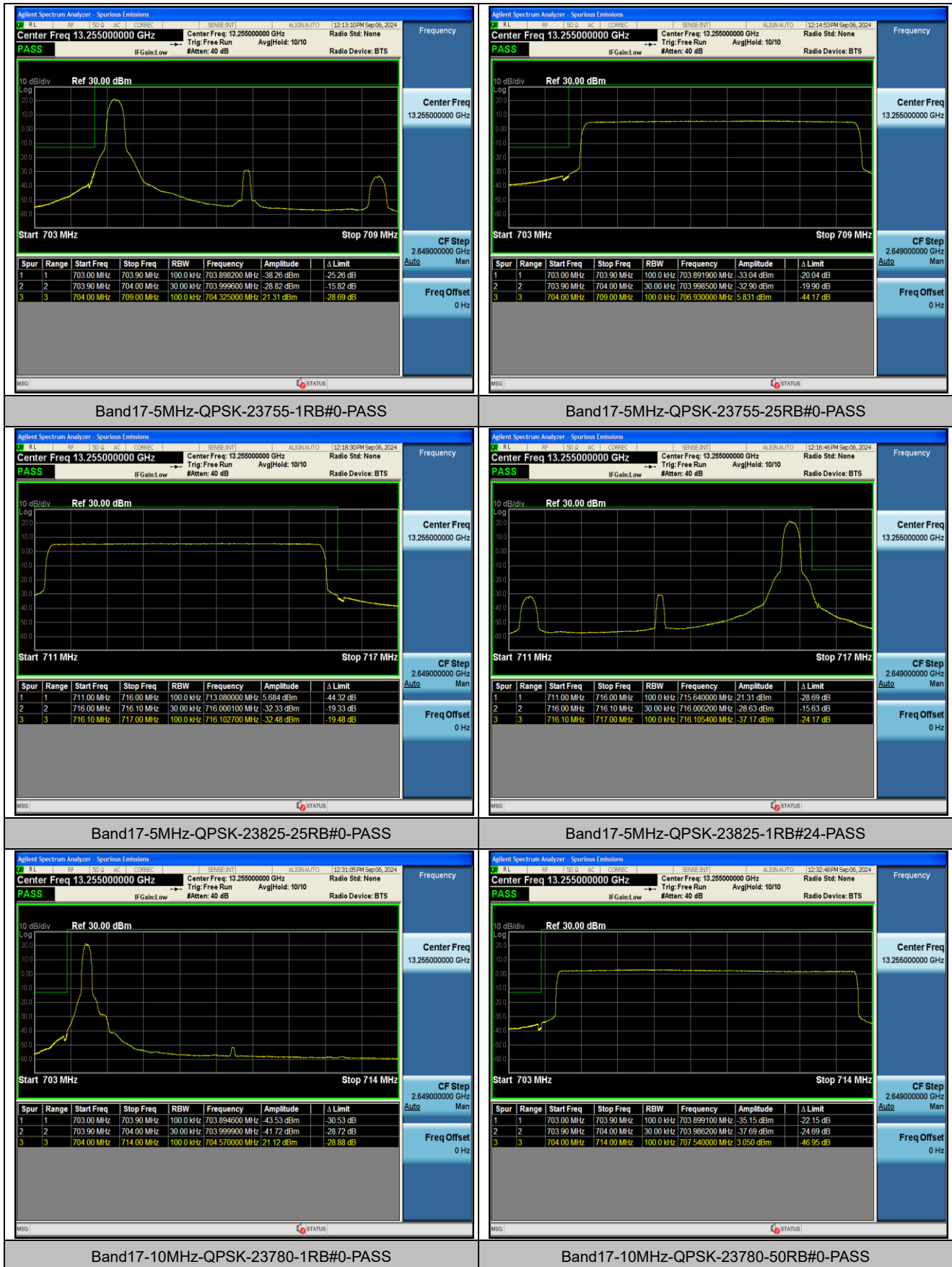


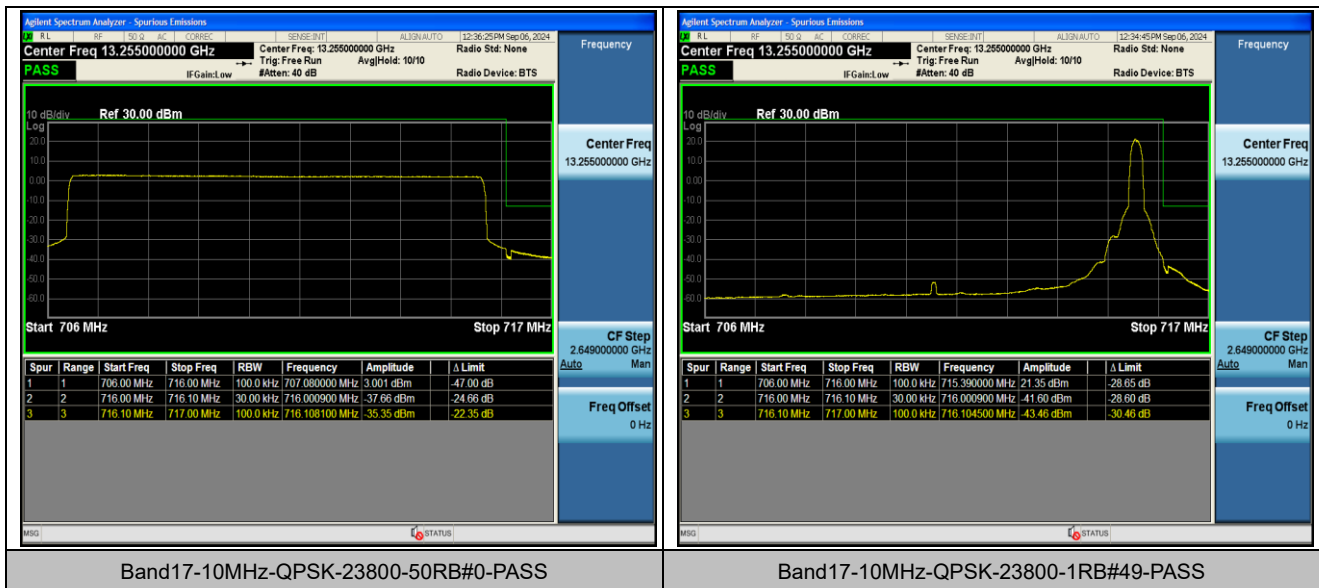
Band Edge

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result (dBm)	Verdict
Band17	5MHz	QPSK	23755	1RB#0	-28.82	PASS
Band17	5MHz	QPSK	23755	25RB#0	-32.90	PASS
Band17	5MHz	QPSK	23825	25RB#0	-32.33	PASS
Band17	5MHz	QPSK	23825	1RB#24	-28.63	PASS
Band17	10MHz	QPSK	23780	1RB#0	-41.72	PASS
Band17	10MHz	QPSK	23780	50RB#0	-35.15	PASS
Band17	10MHz	QPSK	23800	50RB#0	-35.35	PASS
Band17	10MHz	QPSK	23800	1RB#49	-41.60	PASS

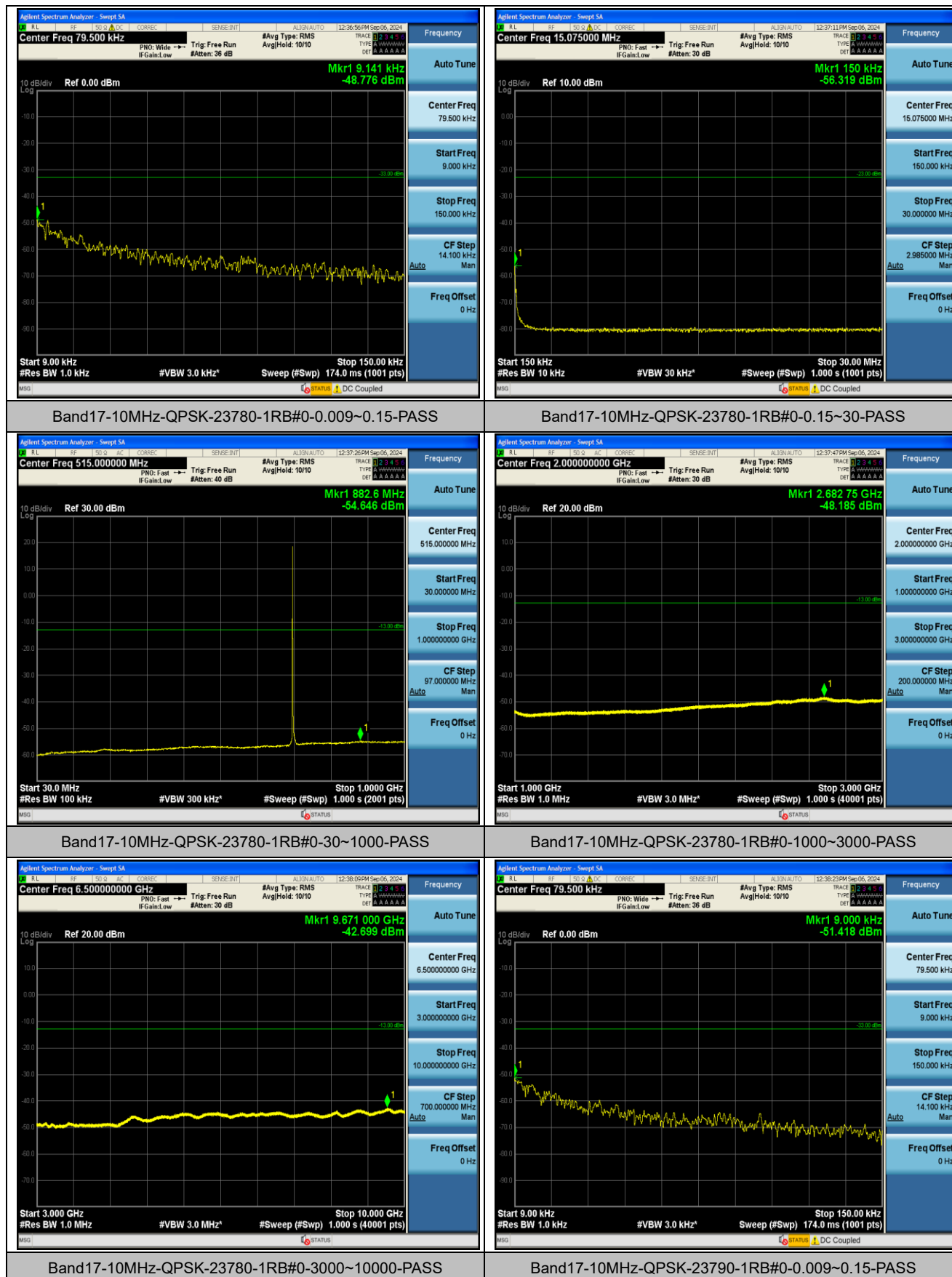
Test Graphs

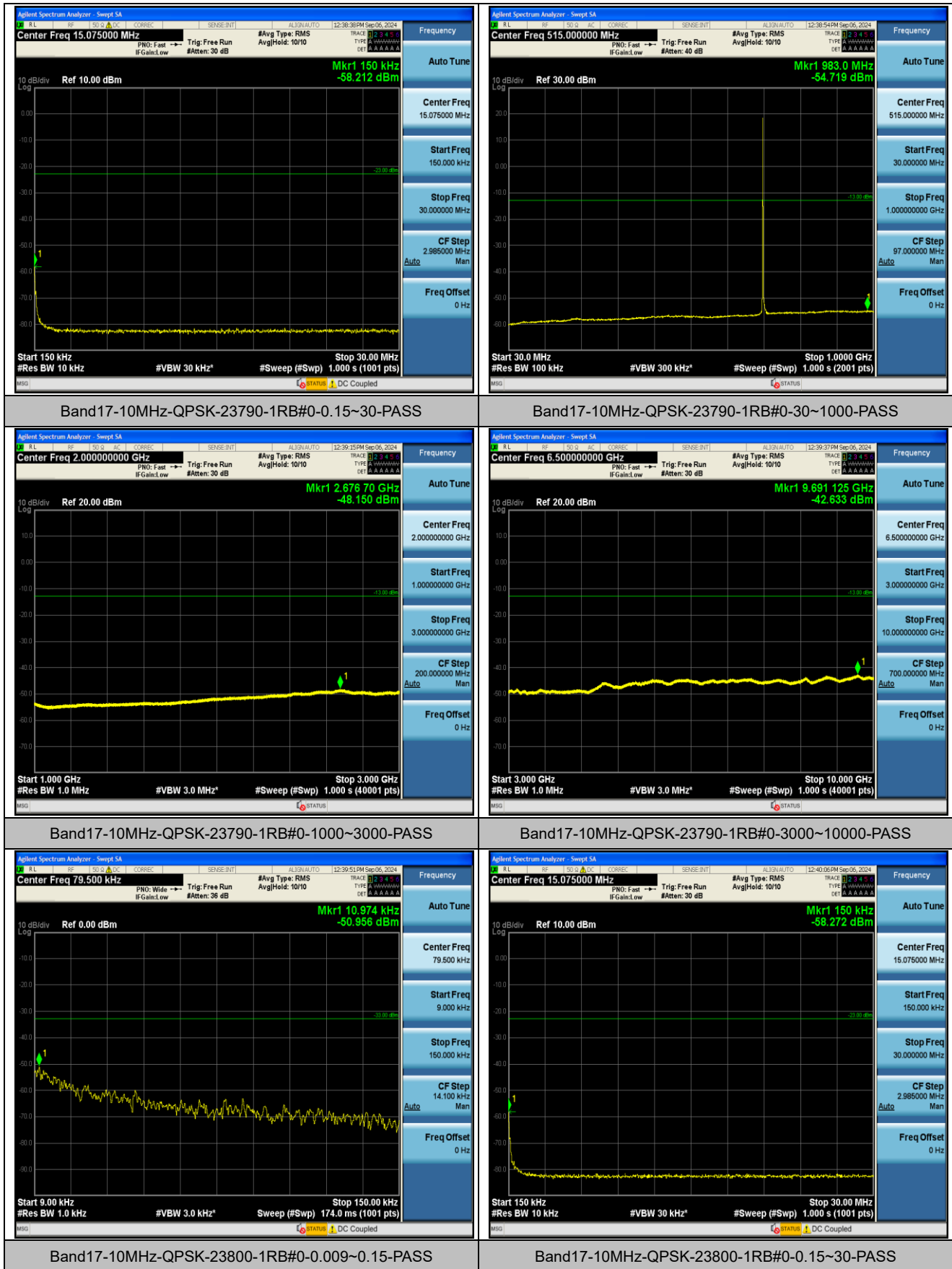


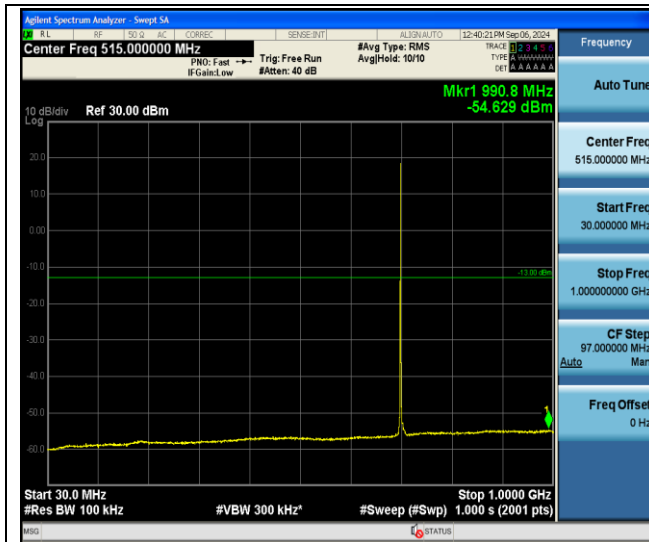


Conducted Spurious Emission

Test Graphs



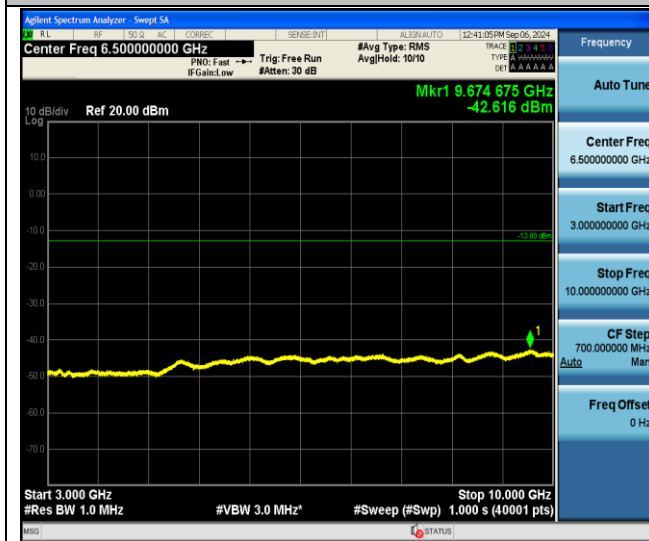




Band17-10MHz-QPSK-23800-1RB#0-30~1000-PASS



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	0.50	0.000704	PASS
Band17	10MHz	QPSK	23790	50RB#0	VL	NT	-2.00	-0.002817	PASS
Band17	10MHz	QPSK	23790	50RB#0	VH	NT	-0.60	-0.000845	PASS

Temperature									
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band17	10MHz	QPSK	23790	50RB#0	NV	-10	-0.10	-0.000141	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	0	-1.80	-0.002535	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	10	-0.50	-0.000704	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	20	-1.30	-0.001831	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	30	0.10	0.000141	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	40	-0.60	-0.000845	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	50	0.40	0.000563	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	-30	-1.70	-0.002394	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	-20	1.30	0.001831	PASS