

Appendix M: Test Data for E-UTRA Band 17

Product Name: Smart Phone

Test Model: ULTRA S25

Environmental Conditions

Temperature:	24.3°C
Relative Humidity:	53.1%
ATM Pressure:	100.0 kPa
Test Engineer:	Zhang hai
Supervised by:	Fengliu Tang

M.1 Conducted Output Power Data

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Power(dBm)	Verdict
Band17	5MHz	QPSK	23755	1RB#0	24.76	PASS
Band17	5MHz	QPSK	23755	1RB#12	24.54	PASS
Band17	5MHz	QPSK	23755	1RB#24	24.58	PASS
Band17	5MHz	QPSK	23755	12RB#0	24.25	PASS
Band17	5MHz	QPSK	23755	12RB#6	24.19	PASS
Band17	5MHz	QPSK	23755	12RB#13	24.28	PASS
Band17	5MHz	QPSK	23755	25RB#0	24.18	PASS
Band17	5MHz	16QAM	23755	1RB#0	24.06	PASS
Band17	5MHz	16QAM	23755	1RB#12	24.69	PASS
Band17	5MHz	16QAM	23755	1RB#24	23.98	PASS
Band17	5MHz	16QAM	23755	12RB#0	23.11	PASS
Band17	5MHz	16QAM	23755	12RB#6	23.14	PASS
Band17	5MHz	16QAM	23755	12RB#13	23.18	PASS
Band17	5MHz	16QAM	23755	25RB#0	23.11	PASS
Band17	5MHz	QPSK	23790	1RB#0	24.75	PASS
Band17	5MHz	QPSK	23790	1RB#12	24.68	PASS
Band17	5MHz	QPSK	23790	1RB#24	24.66	PASS
Band17	5MHz	QPSK	23790	12RB#0	24.14	PASS
Band17	5MHz	QPSK	23790	12RB#6	24.00	PASS
Band17	5MHz	QPSK	23790	12RB#13	24.05	PASS
Band17	5MHz	QPSK	23790	25RB#0	24.10	PASS
Band17	5MHz	16QAM	23790	1RB#0	23.95	PASS
Band17	5MHz	16QAM	23790	1RB#12	23.66	PASS
Band17	5MHz	16QAM	23790	1RB#24	23.77	PASS
Band17	5MHz	16QAM	23790	12RB#0	23.05	PASS
Band17	5MHz	16QAM	23790	12RB#6	22.95	PASS
Band17	5MHz	16QAM	23790	12RB#13	22.67	PASS
Band17	5MHz	16QAM	23790	25RB#0	23.08	PASS
Band17	5MHz	QPSK	23825	1RB#0	24.58	PASS
Band17	5MHz	QPSK	23825	1RB#12	24.52	PASS
Band17	5MHz	QPSK	23825	1RB#24	24.62	PASS
Band17	5MHz	QPSK	23825	12RB#0	24.00	PASS
Band17	5MHz	QPSK	23825	12RB#6	24.28	PASS
Band17	5MHz	QPSK	23825	12RB#13	24.23	PASS
Band17	5MHz	QPSK	23825	25RB#0	24.21	PASS
Band17	5MHz	16QAM	23825	1RB#0	23.35	PASS

Band17	5MHz	16QAM	23825	1RB#12	24.07	PASS
Band17	5MHz	16QAM	23825	1RB#24	23.37	PASS
Band17	5MHz	16QAM	23825	12RB#0	22.56	PASS
Band17	5MHz	16QAM	23825	12RB#6	22.69	PASS
Band17	5MHz	16QAM	23825	12RB#13	22.80	PASS
Band17	5MHz	16QAM	23825	25RB#0	22.91	PASS
Band17	10MHz	QPSK	23780	1RB#0	24.68	PASS
Band17	10MHz	QPSK	23780	1RB#24	24.88	PASS
Band17	10MHz	QPSK	23780	1RB#49	24.63	PASS
Band17	10MHz	QPSK	23780	25RB#0	24.15	PASS
Band17	10MHz	QPSK	23780	25RB#12	24.10	PASS
Band17	10MHz	QPSK	23780	25RB#25	24.11	PASS
Band17	10MHz	QPSK	23780	50RB#0	24.11	PASS
Band17	10MHz	16QAM	23780	1RB#0	24.04	PASS
Band17	10MHz	16QAM	23780	1RB#24	25.09	PASS
Band17	10MHz	16QAM	23780	1RB#49	24.02	PASS
Band17	10MHz	16QAM	23780	25RB#0	23.24	PASS
Band17	10MHz	16QAM	23780	25RB#12	23.13	PASS
Band17	10MHz	16QAM	23780	25RB#25	22.81	PASS
Band17	10MHz	16QAM	23780	50RB#0	23.10	PASS
Band17	10MHz	QPSK	23790	1RB#0	24.79	PASS
Band17	10MHz	QPSK	23790	1RB#24	24.54	PASS
Band17	10MHz	QPSK	23790	1RB#49	24.73	PASS
Band17	10MHz	QPSK	23790	25RB#0	24.21	PASS
Band17	10MHz	QPSK	23790	25RB#12	24.01	PASS
Band17	10MHz	QPSK	23790	25RB#25	24.01	PASS
Band17	10MHz	QPSK	23790	50RB#0	24.05	PASS
Band17	10MHz	16QAM	23790	1RB#0	23.99	PASS
Band17	10MHz	16QAM	23790	1RB#24	24.22	PASS
Band17	10MHz	16QAM	23790	1RB#49	23.98	PASS
Band17	10MHz	16QAM	23790	25RB#0	23.19	PASS
Band17	10MHz	16QAM	23790	25RB#12	23.08	PASS
Band17	10MHz	16QAM	23790	25RB#25	22.70	PASS
Band17	10MHz	16QAM	23790	50RB#0	23.04	PASS
Band17	10MHz	QPSK	23800	1RB#0	24.72	PASS
Band17	10MHz	QPSK	23800	1RB#24	24.76	PASS
Band17	10MHz	QPSK	23800	1RB#49	24.57	PASS
Band17	10MHz	QPSK	23800	25RB#0	24.20	PASS
Band17	10MHz	QPSK	23800	25RB#12	24.02	PASS
Band17	10MHz	QPSK	23800	25RB#25	24.34	PASS
Band17	10MHz	QPSK	23800	50RB#0	24.06	PASS

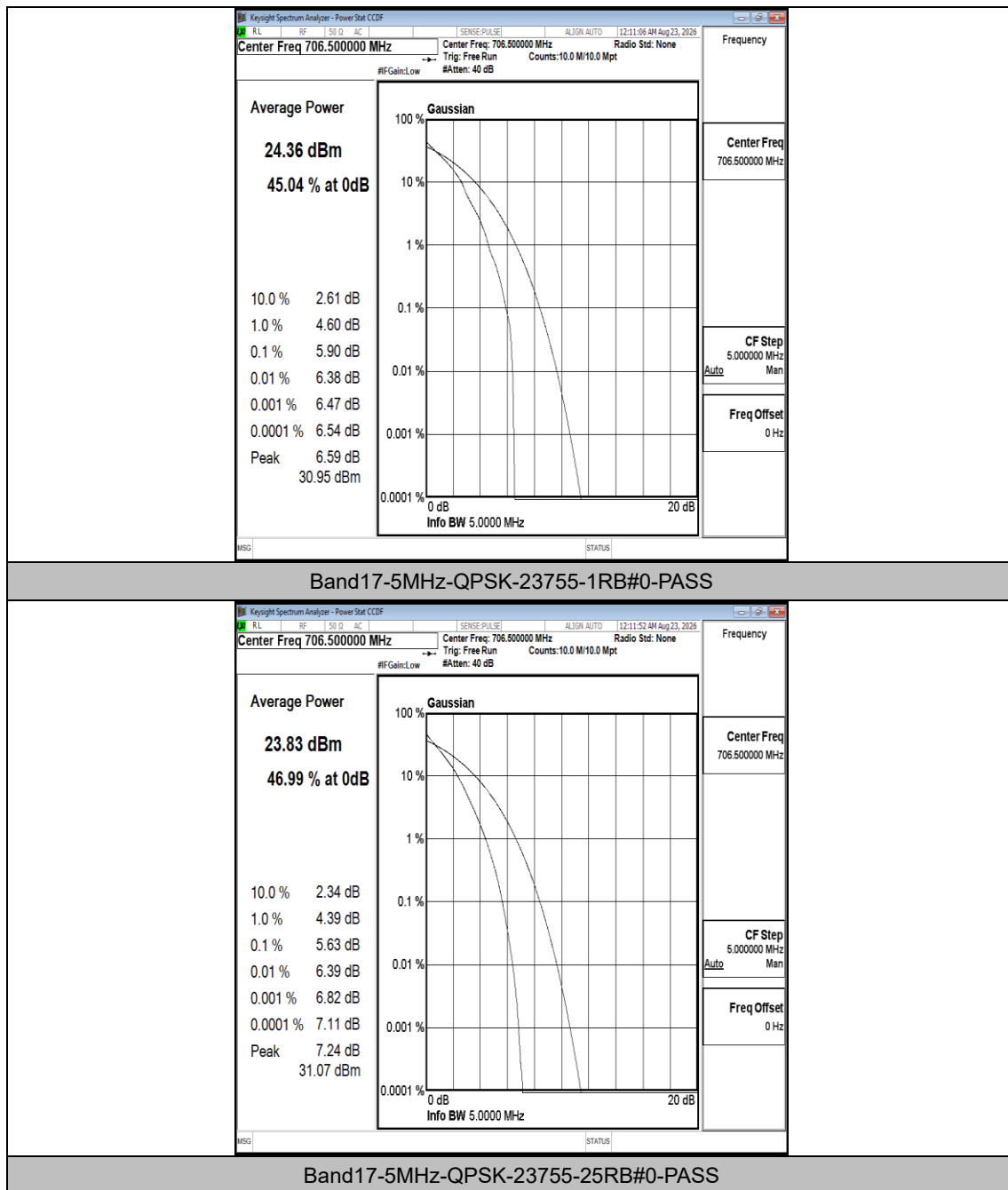
Band17	10MHz	16QAM	23800	1RB#0	23.82	PASS
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Band17	10MHz	16QAM	23800	1RB#49	24.05	PASS
Band17	10MHz	16QAM	23800	25RB#0	23.02	PASS
Band17	10MHz	16QAM	23800	25RB#12	22.88	PASS
Band17	10MHz	16QAM	23800	25RB#25	22.88	PASS
Band17	10MHz	16QAM	23800	50RB#0	22.99	PASS

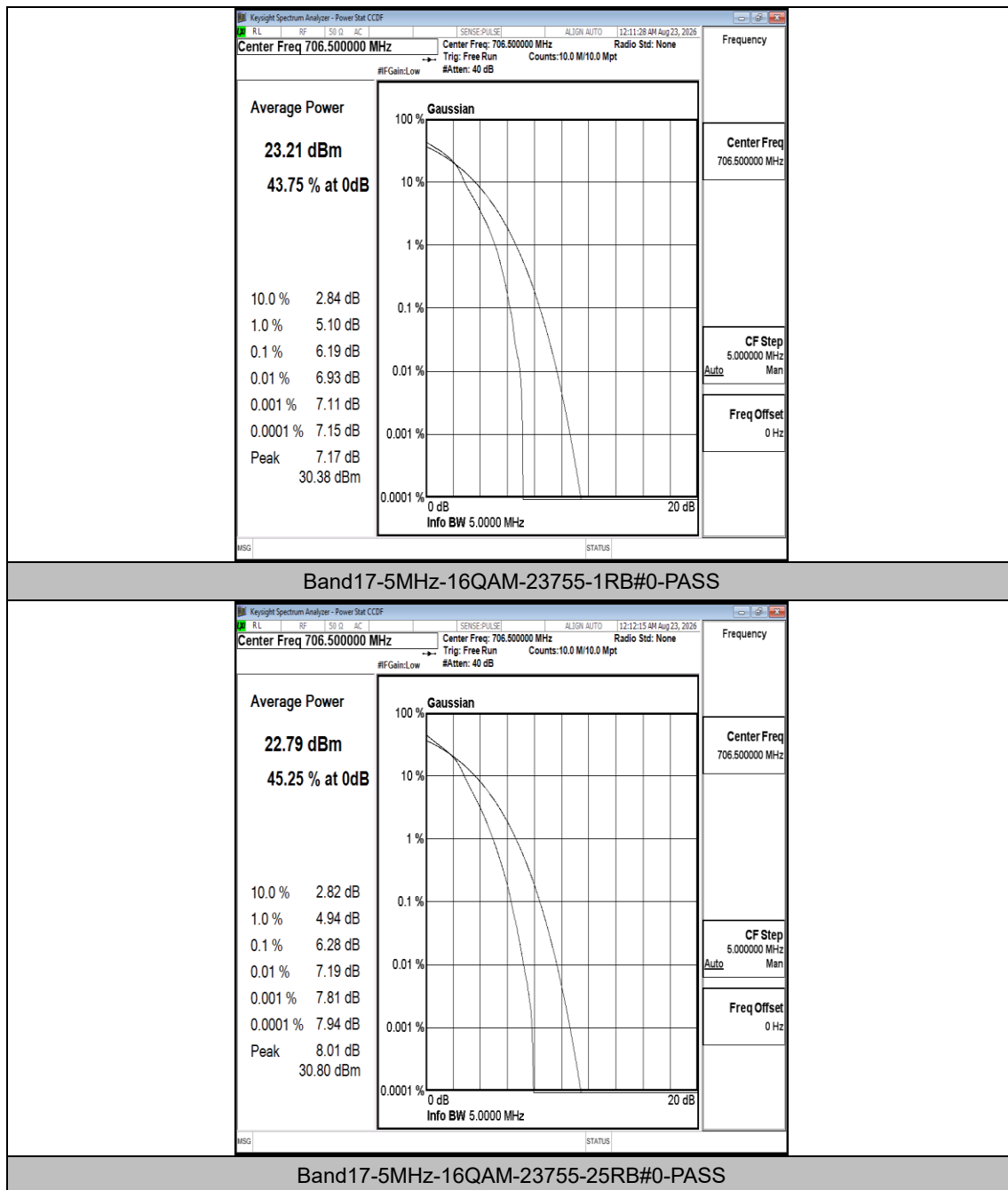
M.2 Peak-to-Average Ratio(CCDF)

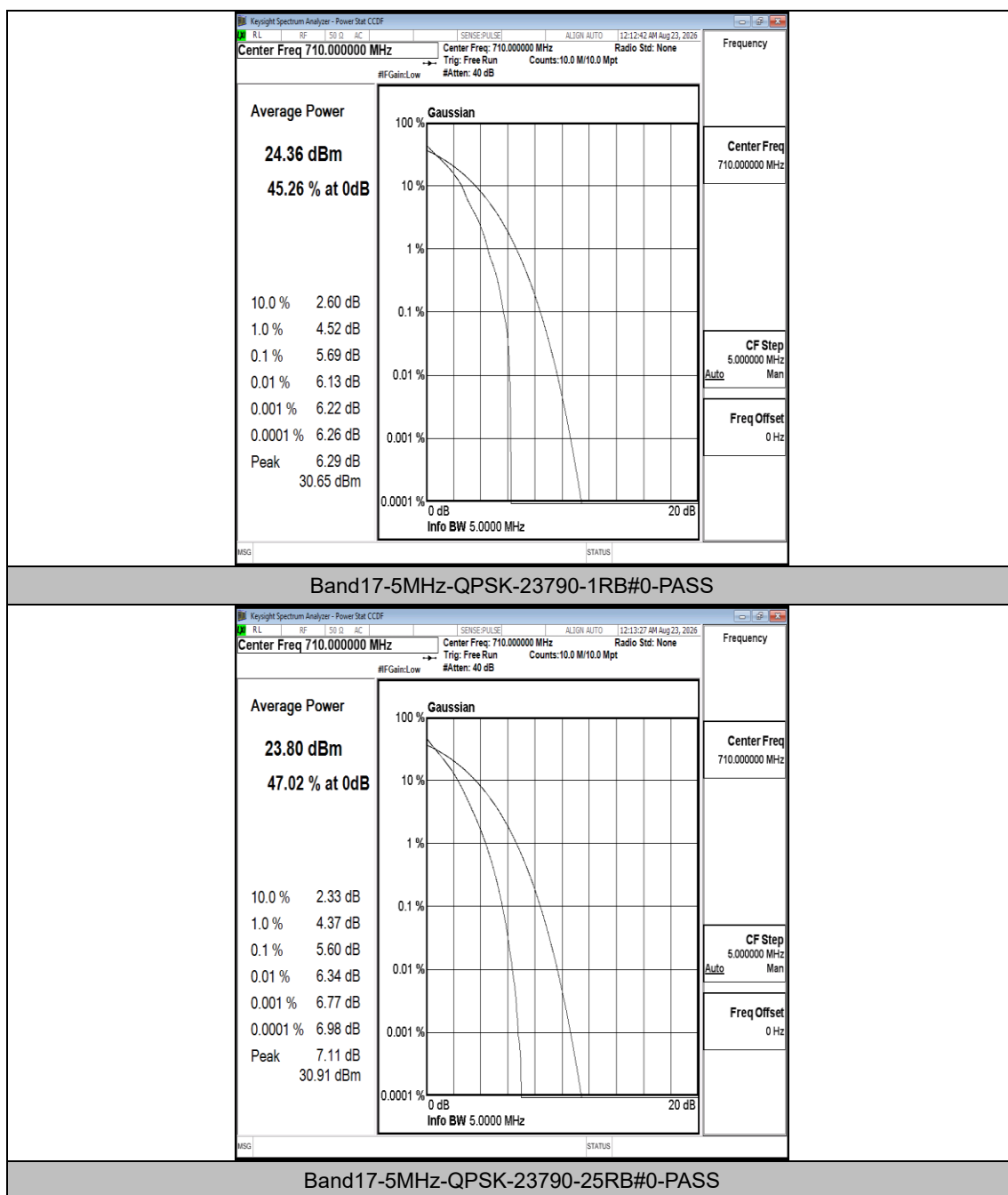
Test Result

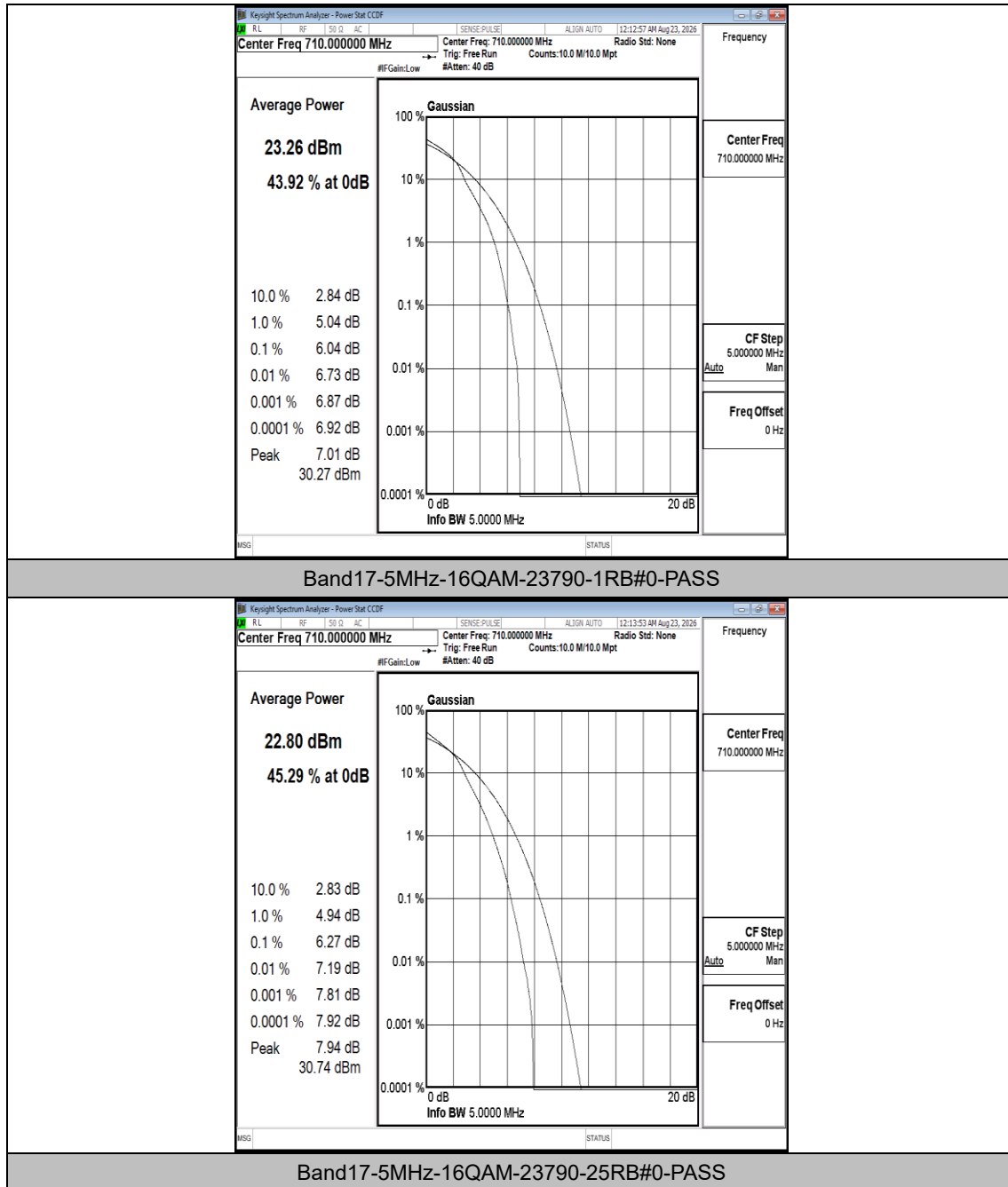
Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band17	5MHz	QPSK	23755	1RB#0	5.90	13	PASS
Band17	5MHz	QPSK	23755	25RB#0	5.63	13	PASS
Band17	5MHz	16QAM	23755	1RB#0	6.19	13	PASS
Band17	5MHz	16QAM	23755	25RB#0	6.28	13	PASS
Band17	5MHz	QPSK	23790	1RB#0	5.69	13	PASS
Band17	5MHz	QPSK	23790	25RB#0	5.60	13	PASS
Band17	5MHz	16QAM	23790	1RB#0	6.04	13	PASS
Band17	5MHz	16QAM	23790	25RB#0	6.27	13	PASS
Band17	5MHz	QPSK	23825	1RB#0	5.77	13	PASS
Band17	5MHz	QPSK	23825	25RB#0	5.56	13	PASS
Band17	5MHz	16QAM	23825	1RB#0	6.14	13	PASS
Band17	5MHz	16QAM	23825	25RB#0	6.27	13	PASS
Band17	10MHz	QPSK	23780	1RB#0	5.55	13	PASS
Band17	10MHz	QPSK	23780	50RB#0	5.60	13	PASS
Band17	10MHz	16QAM	23780	1RB#0	6.38	13	PASS
Band17	10MHz	16QAM	23780	50RB#0	6.28	13	PASS
Band17	10MHz	QPSK	23790	1RB#0	5.25	13	PASS
Band17	10MHz	QPSK	23790	50RB#0	5.59	13	PASS
Band17	10MHz	16QAM	23790	1RB#0	5.84	13	PASS
Band17	10MHz	16QAM	23790	50RB#0	6.32	13	PASS
Band17	10MHz	QPSK	23800	1RB#0	5.47	13	PASS
Band17	10MHz	QPSK	23800	50RB#0	5.62	13	PASS
Band17	10MHz	16QAM	23800	1RB#0	6.30	13	PASS
Band17	10MHz	16QAM	23800	50RB#0	6.30	13	PASS

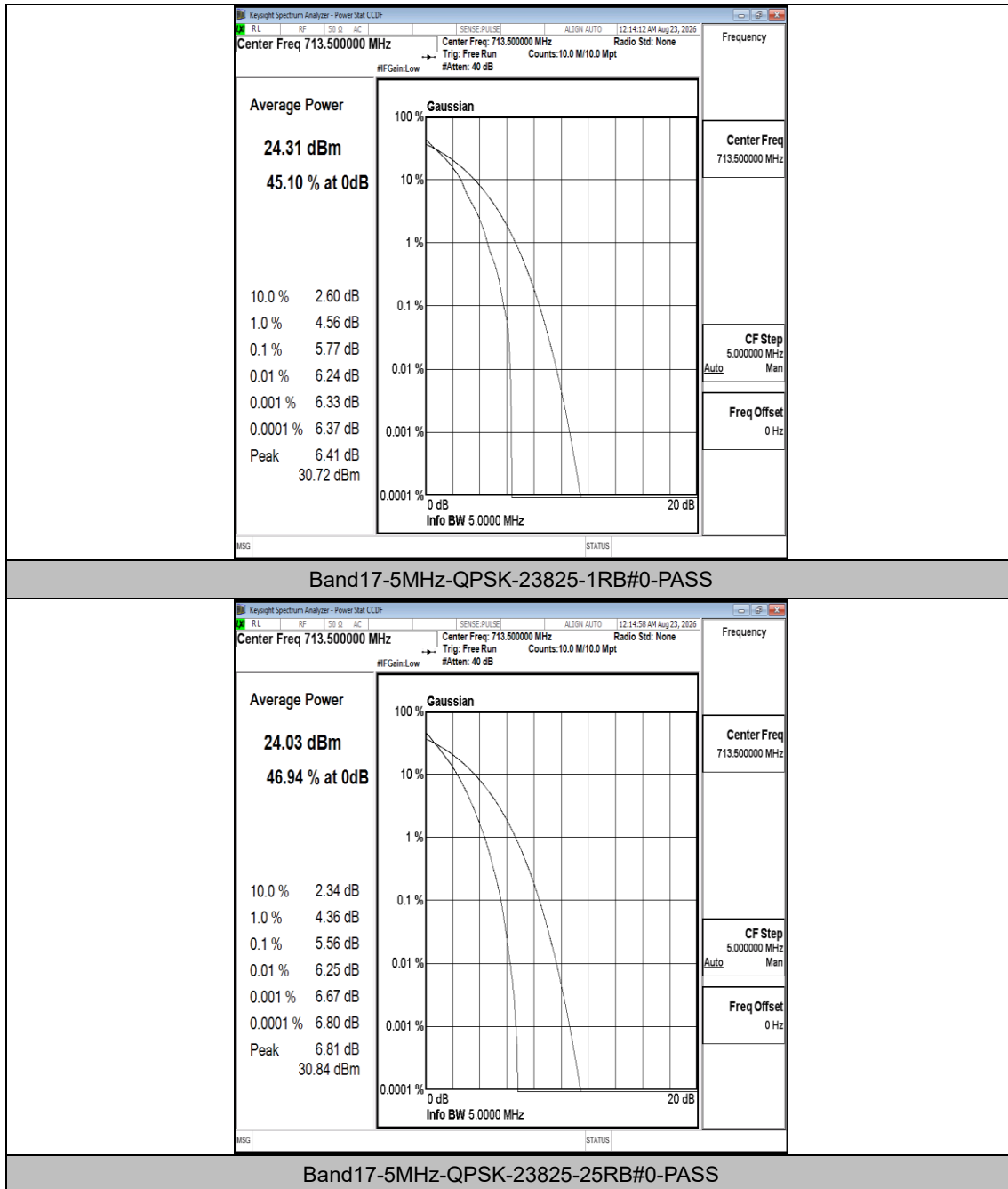
Test Graphs

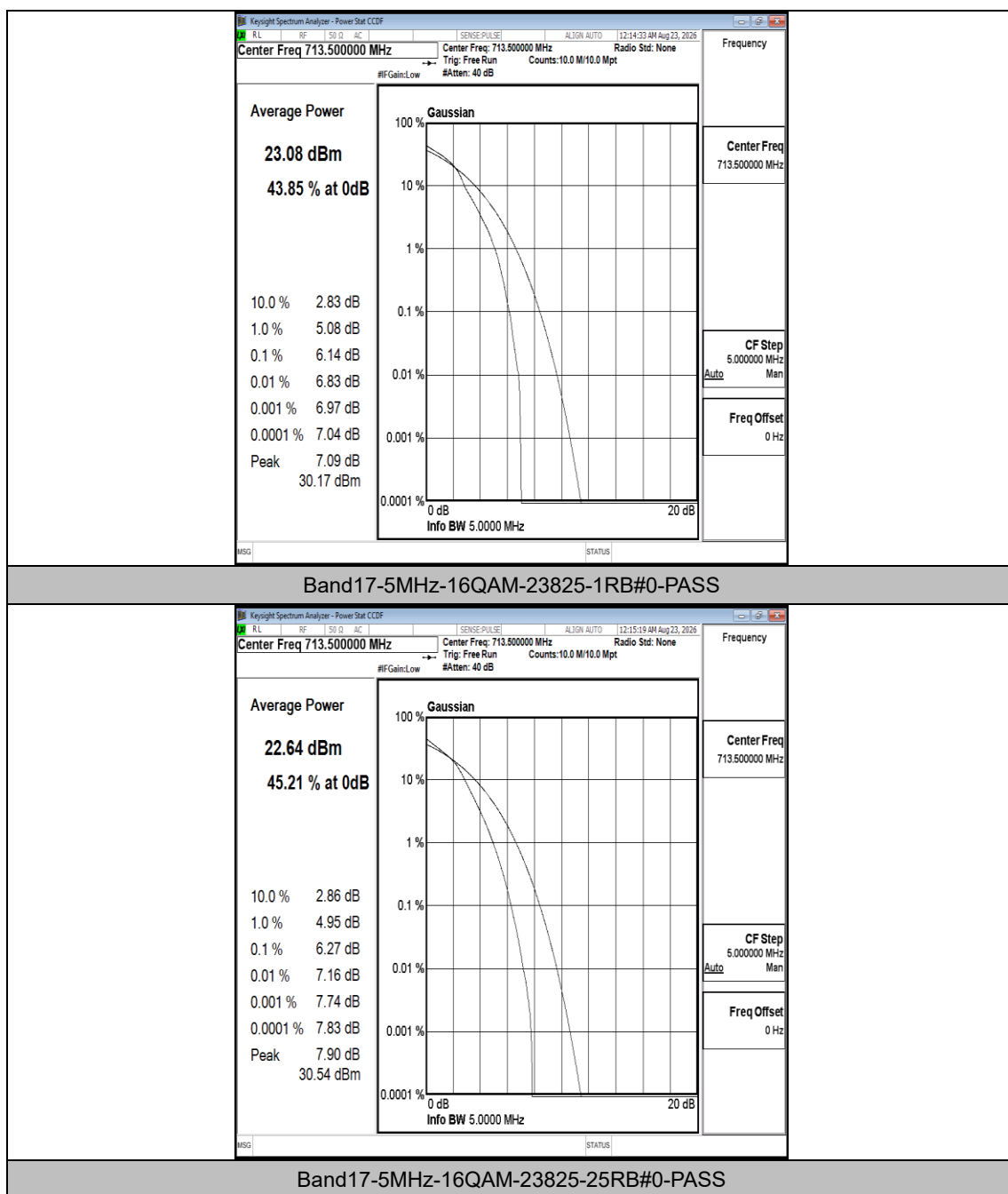


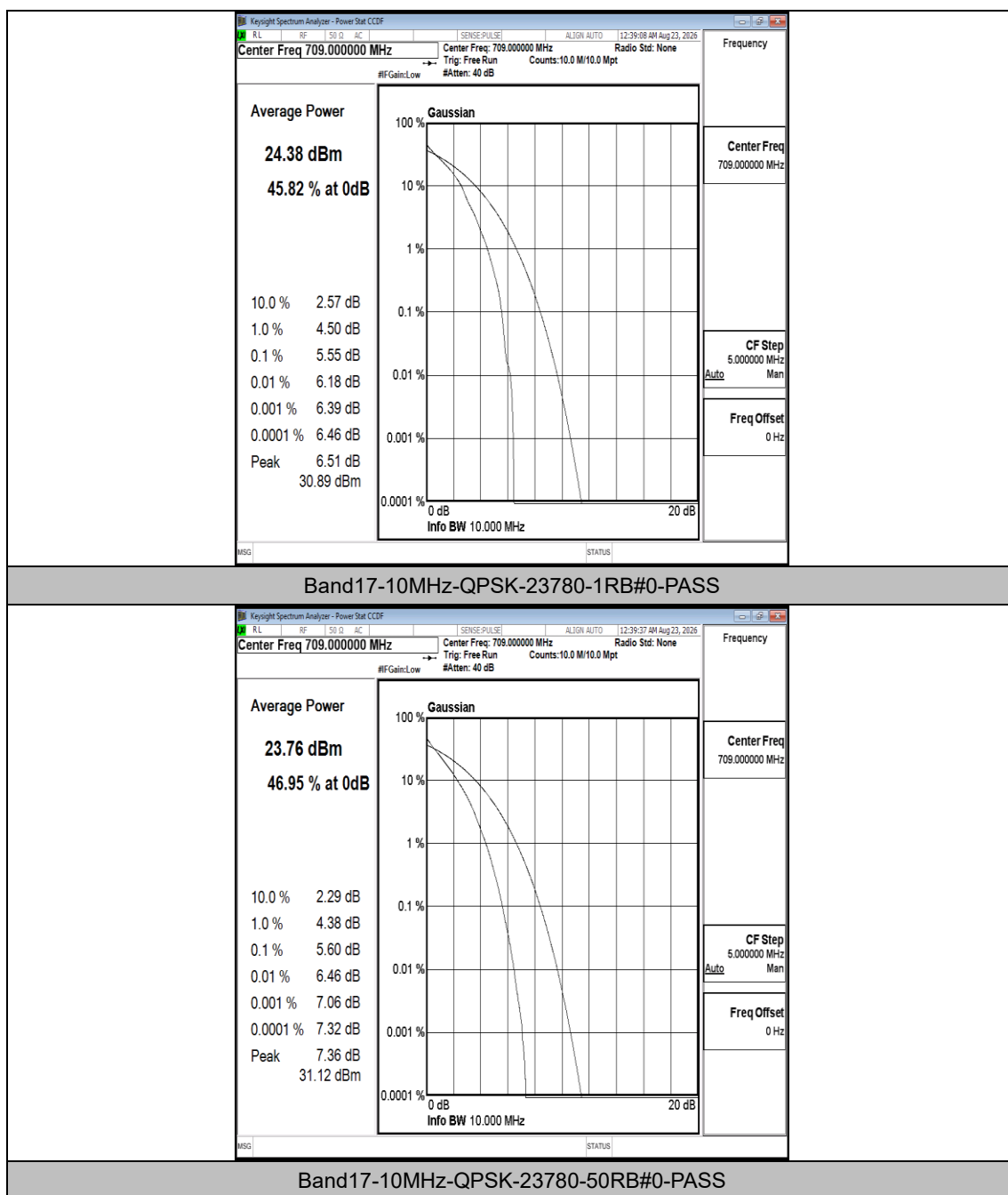


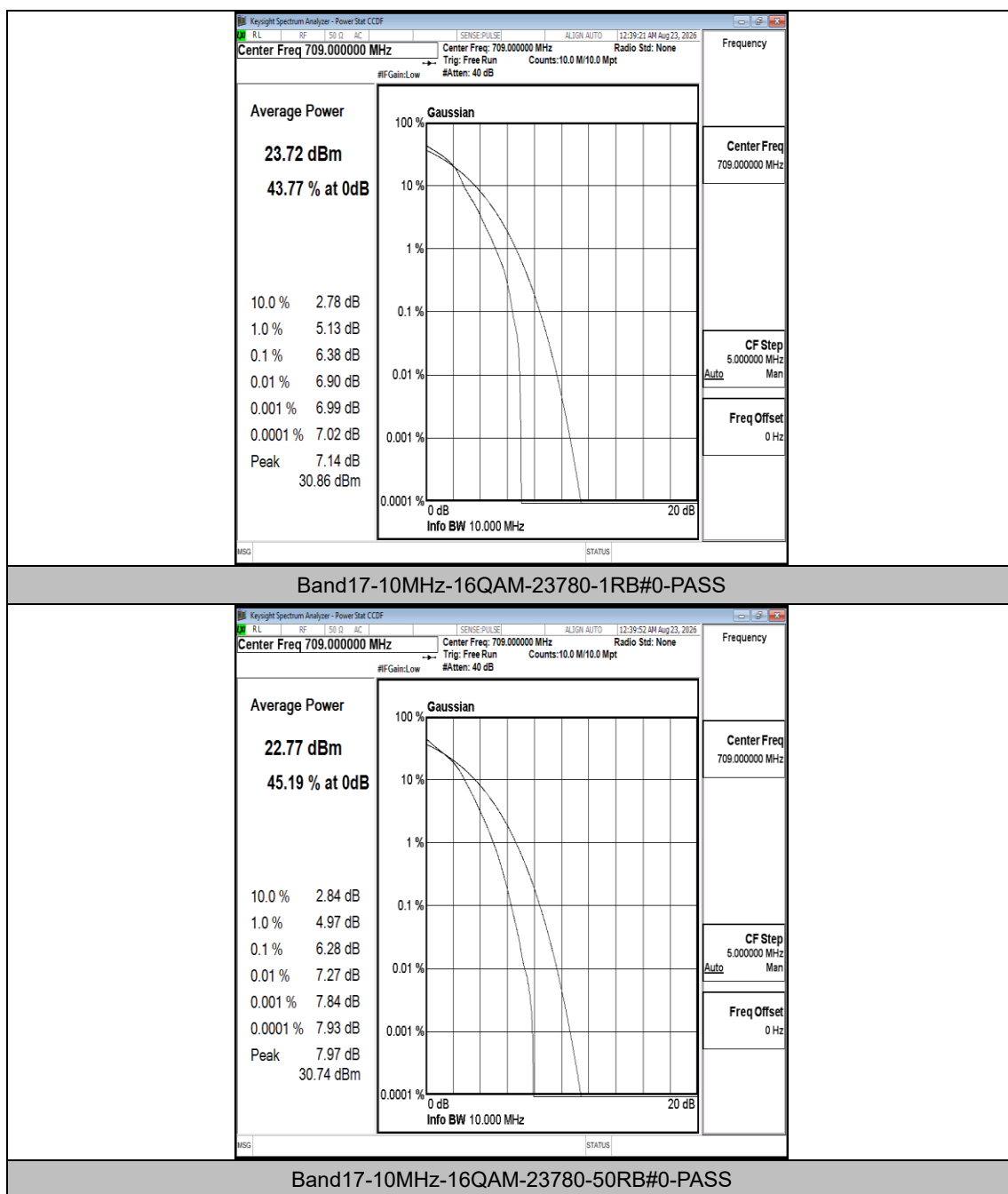


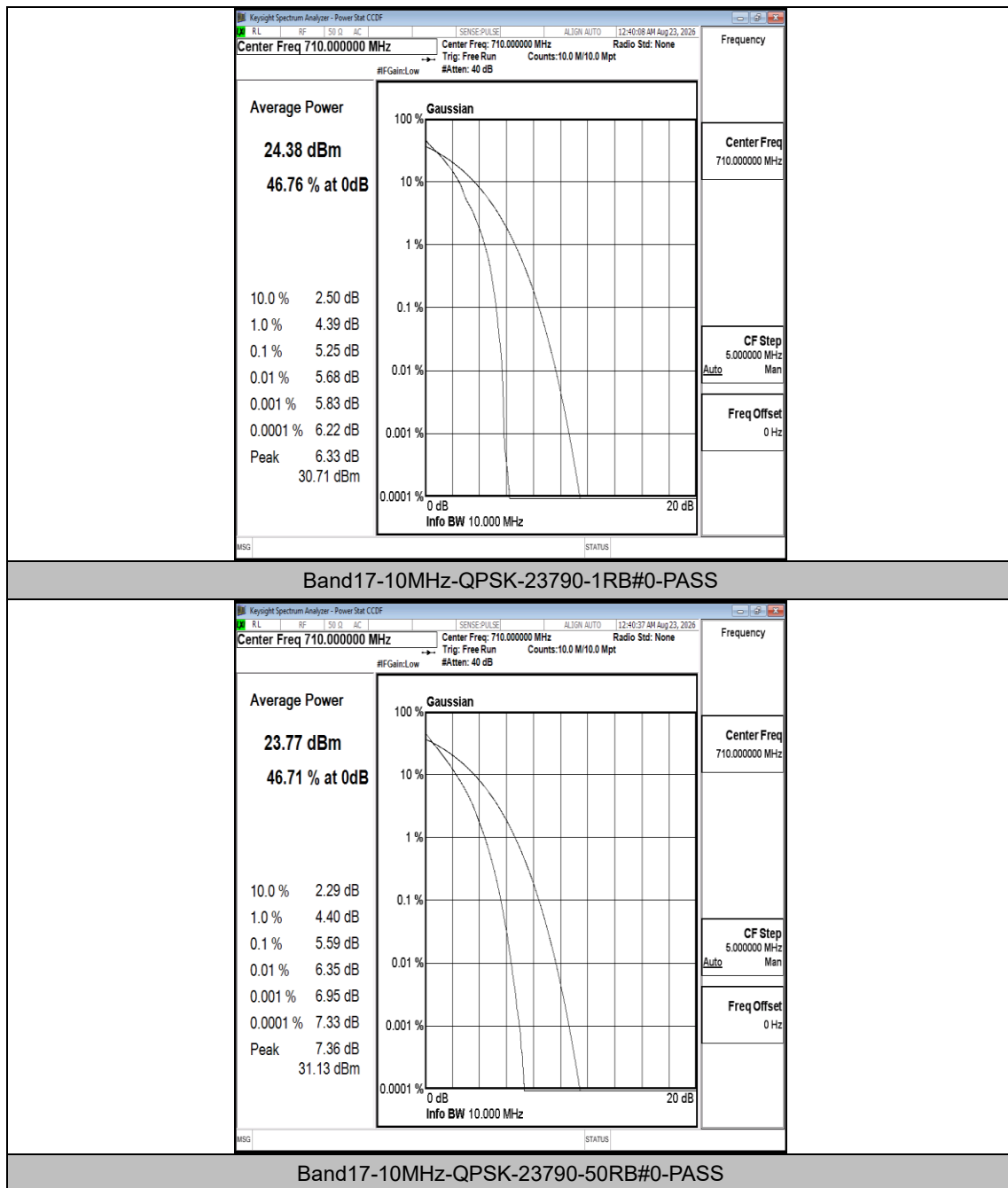


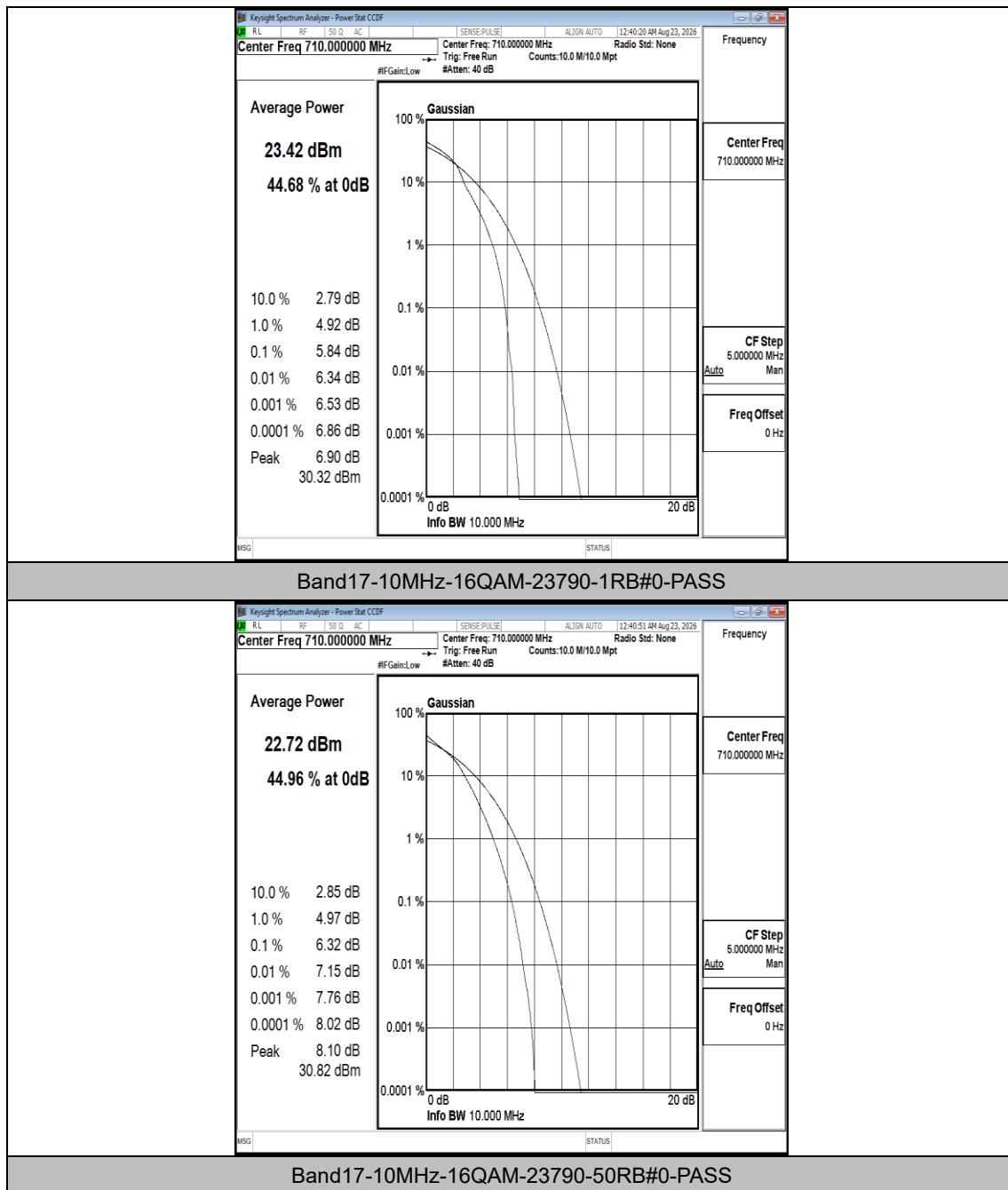


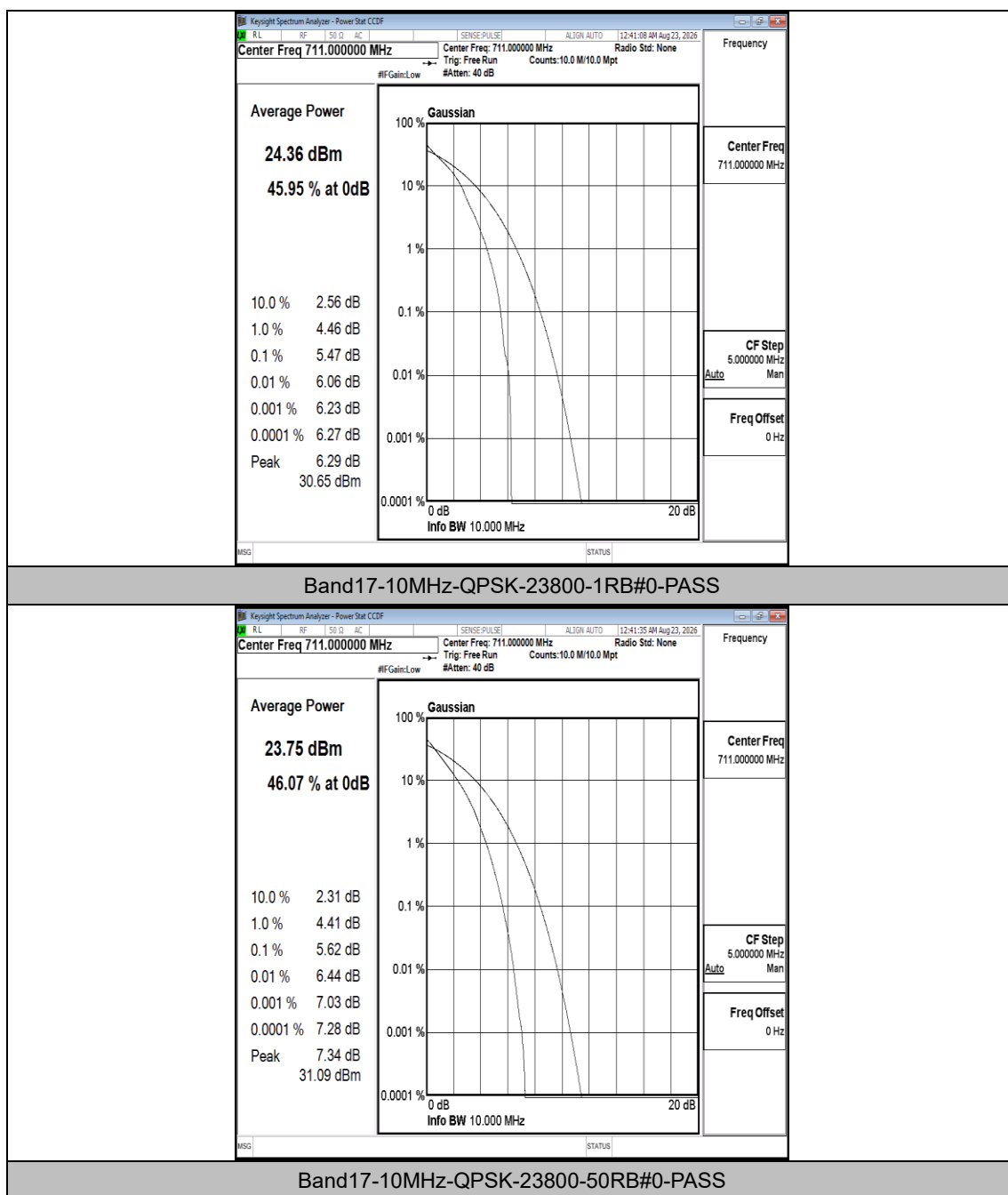


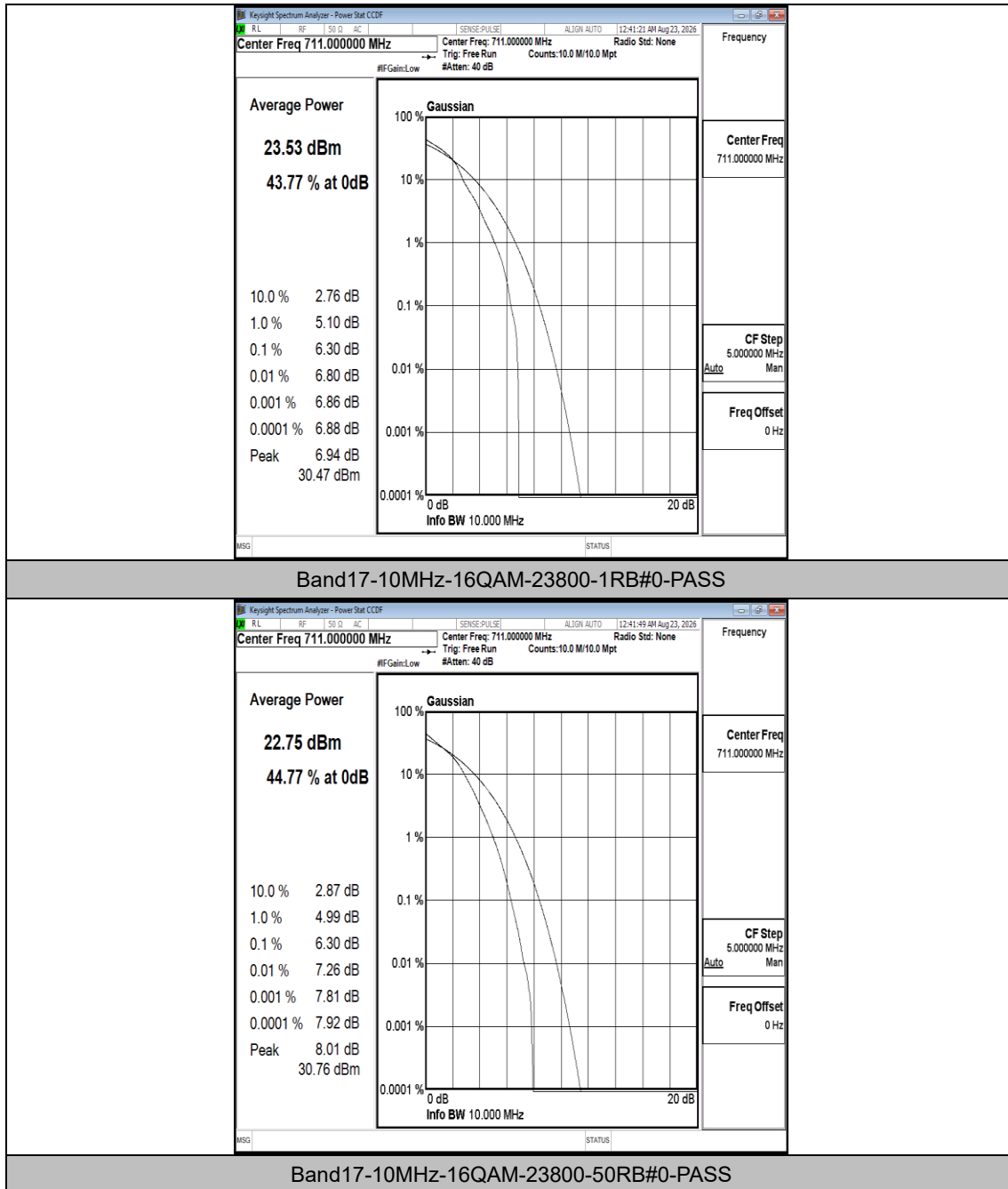










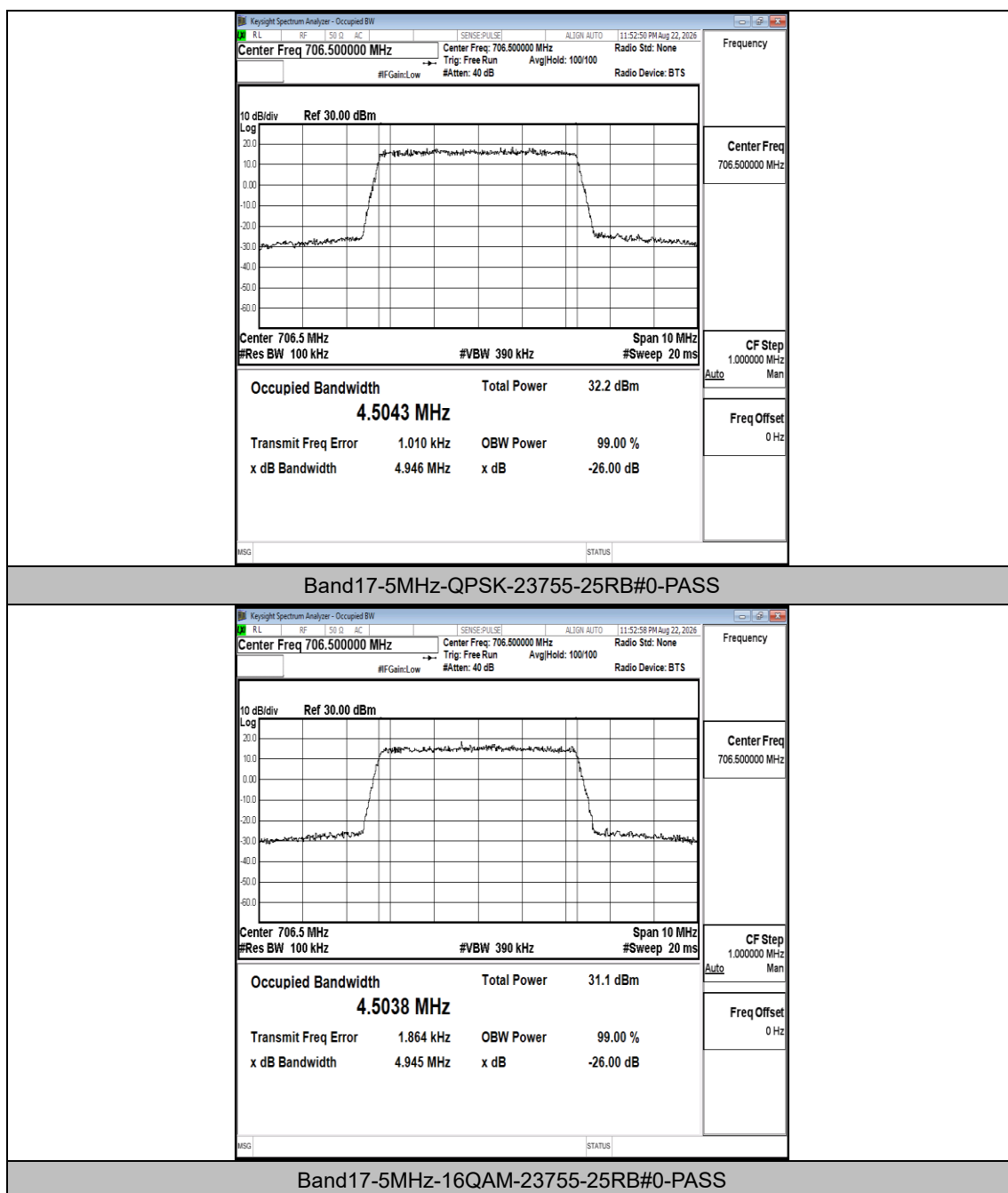


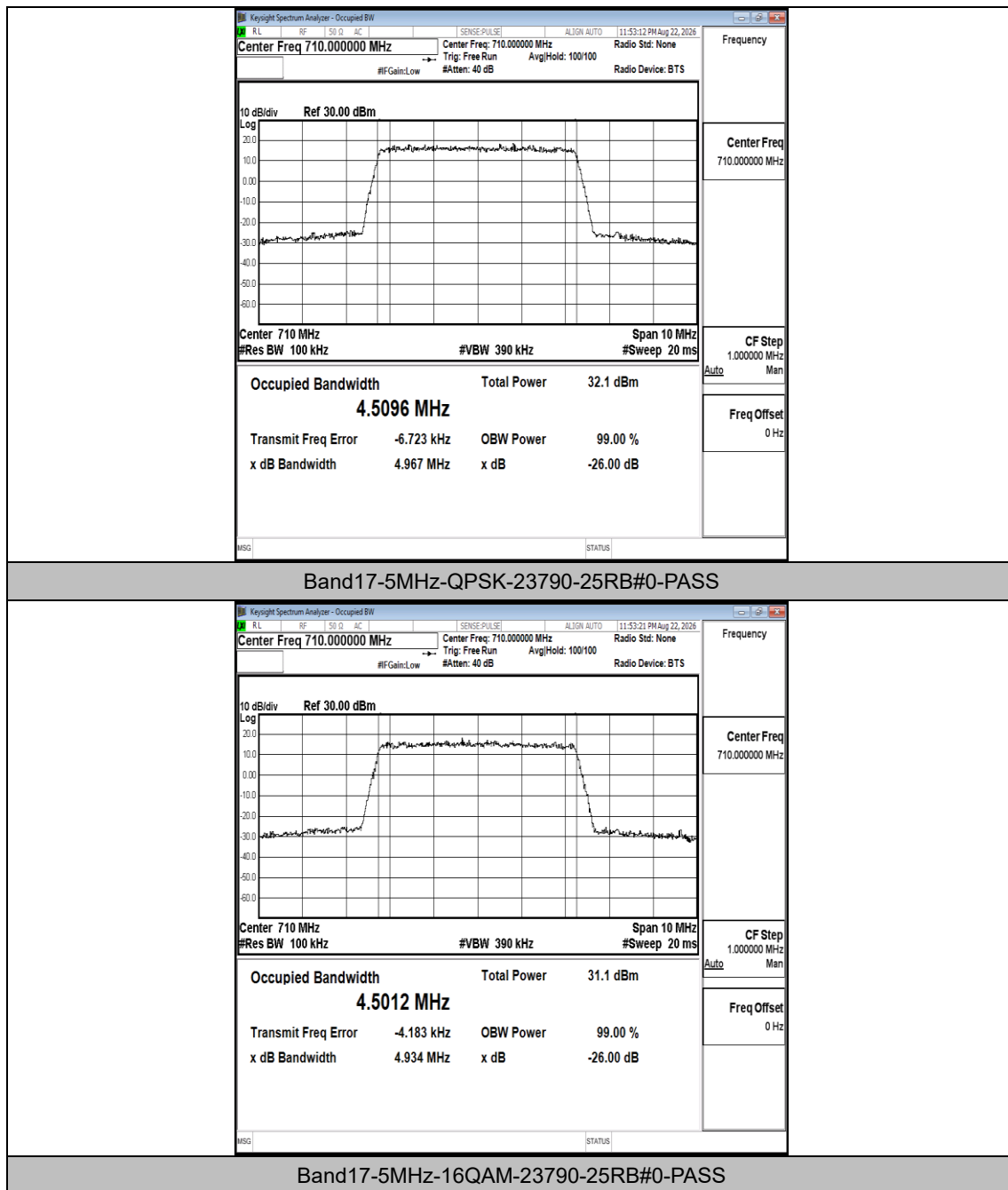
M.3 26dB Bandwidth and Occupied Bandwidth

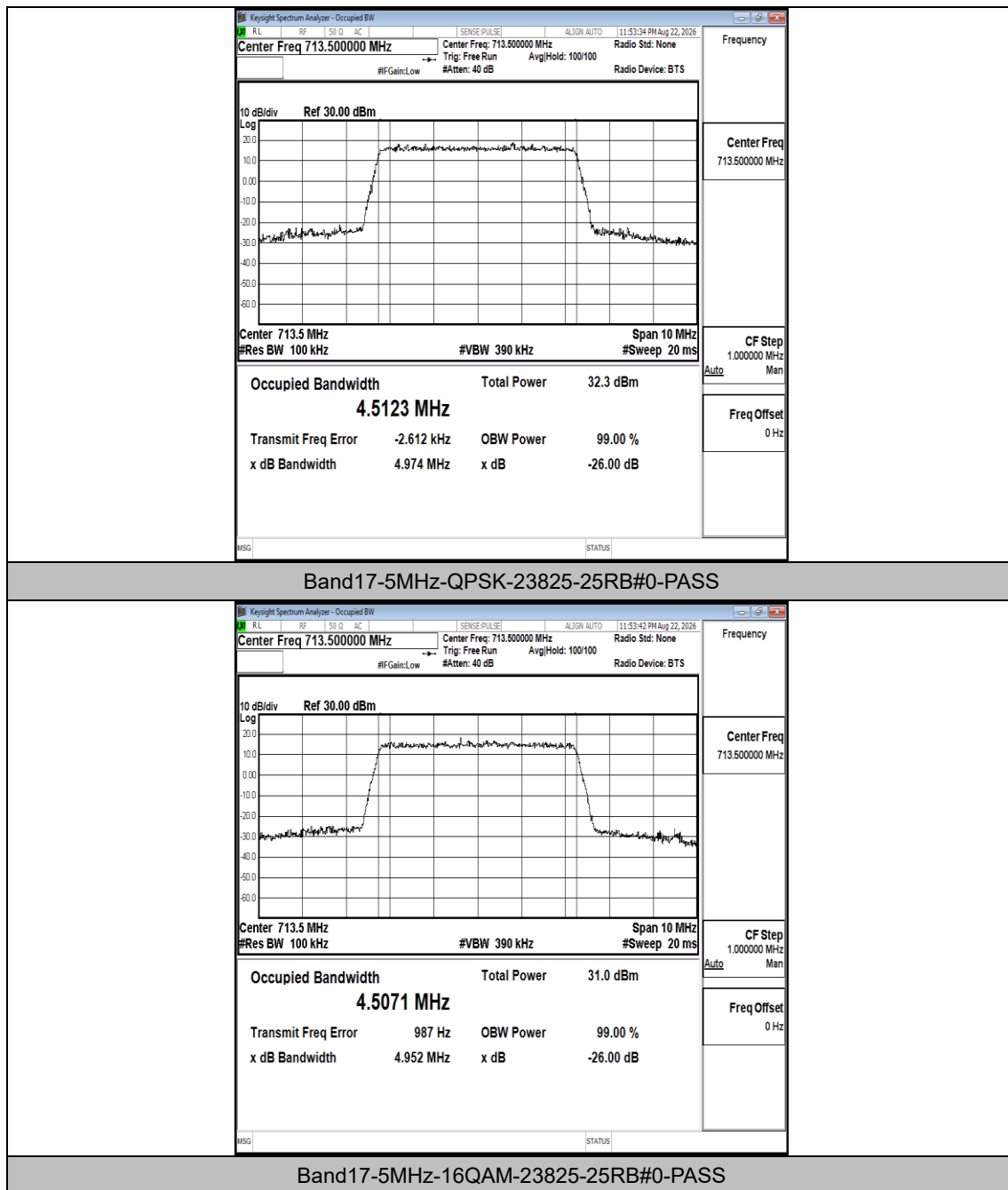
Test Result

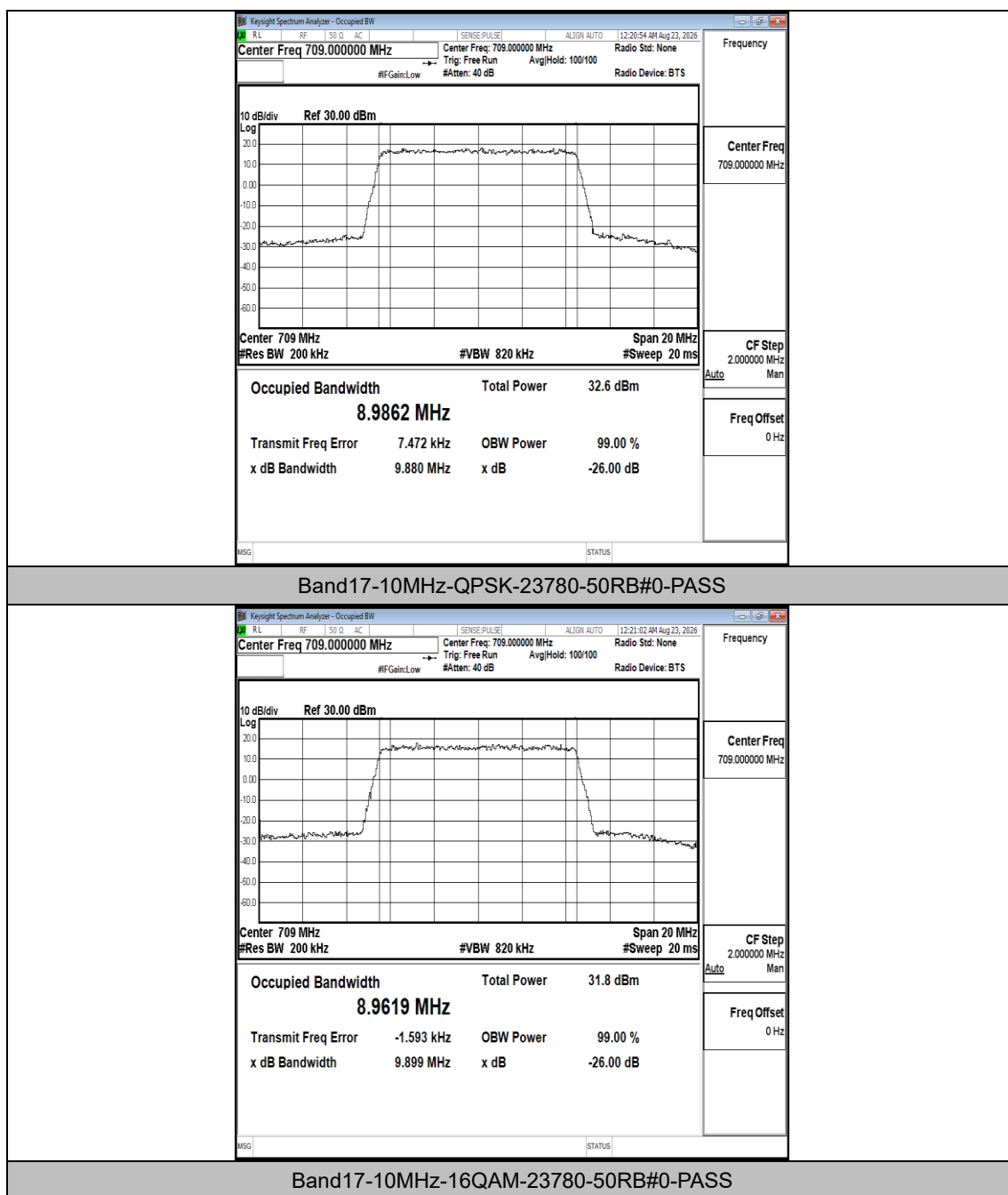
Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band17	5MHz	QPSK	23755	25RB#0	4.5043	4.946	PASS
Band17	5MHz	16QAM	23755	25RB#0	4.5038	4.945	PASS
Band17	5MHz	QPSK	23790	25RB#0	4.5096	4.967	PASS
Band17	5MHz	16QAM	23790	25RB#0	4.5012	4.934	PASS
Band17	5MHz	QPSK	23825	25RB#0	4.5123	4.974	PASS
Band17	5MHz	16QAM	23825	25RB#0	4.5071	4.952	PASS
Band17	10MHz	QPSK	23780	50RB#0	8.9862	9.880	PASS
Band17	10MHz	16QAM	23780	50RB#0	8.9619	9.899	PASS
Band17	10MHz	QPSK	23790	50RB#0	9.0110	9.932	PASS
Band17	10MHz	16QAM	23790	50RB#0	8.9939	9.911	PASS
Band17	10MHz	QPSK	23800	50RB#0	8.9867	9.874	PASS
Band17	10MHz	16QAM	23800	50RB#0	8.9912	9.948	PASS

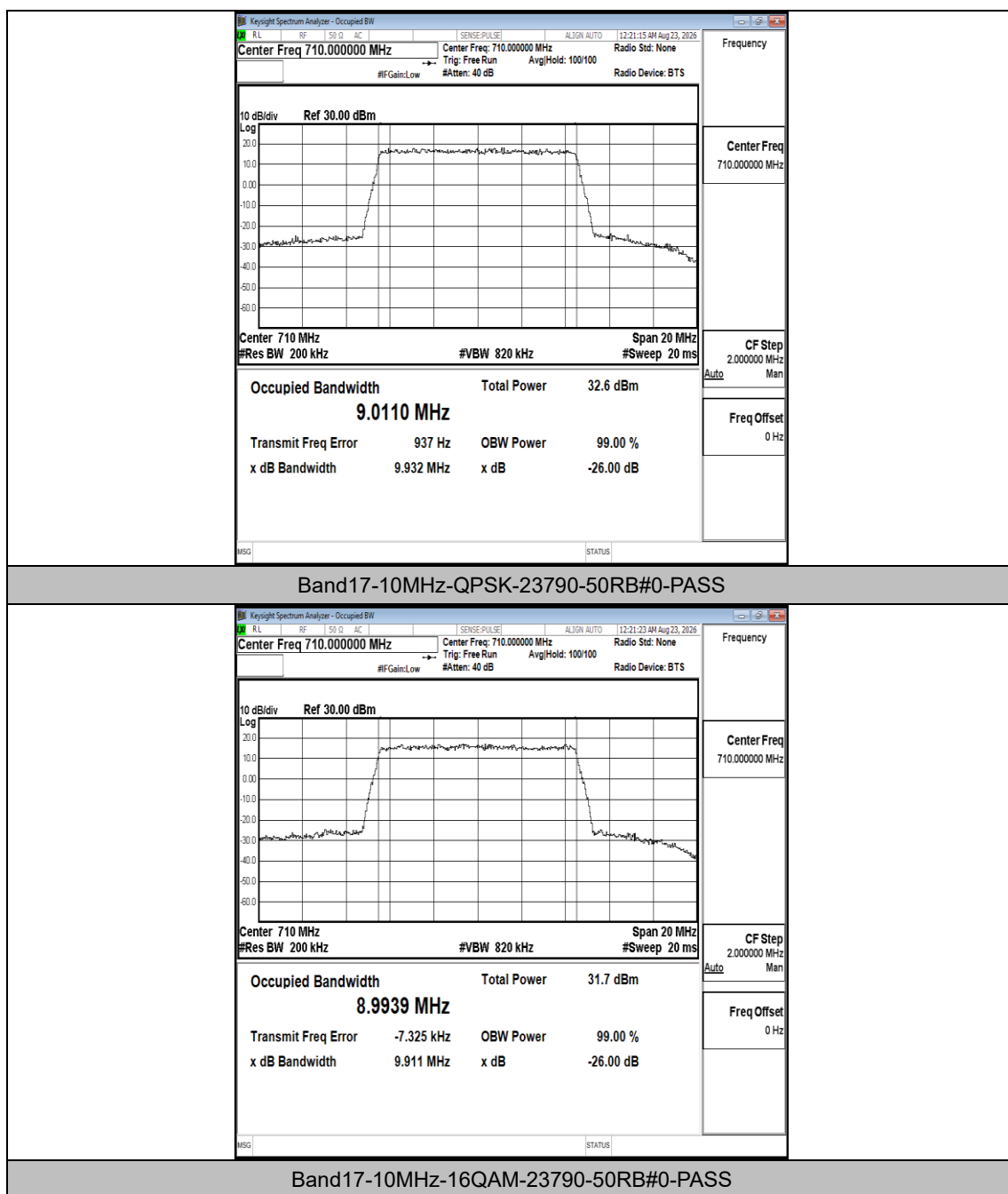
Test Graphs

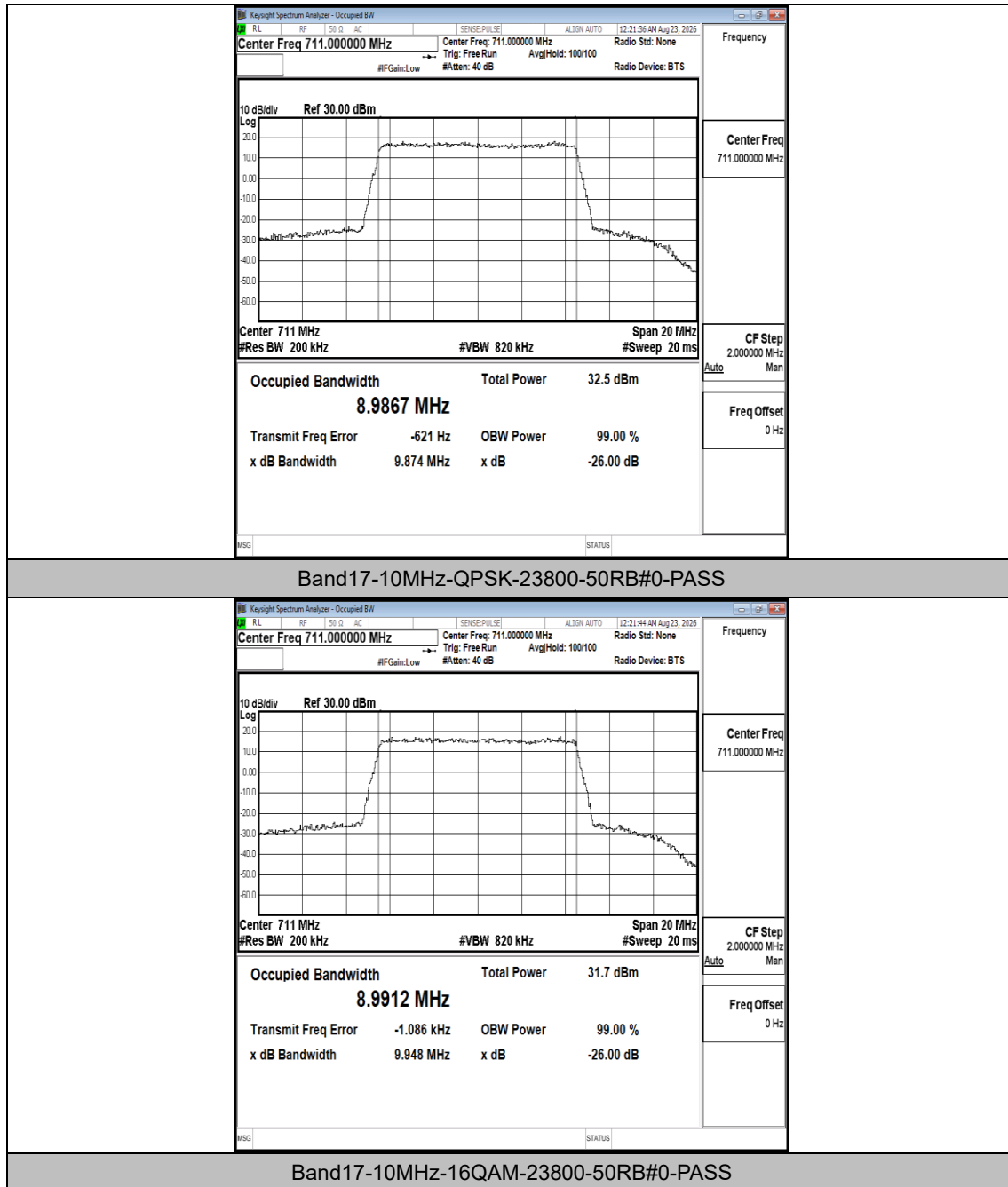










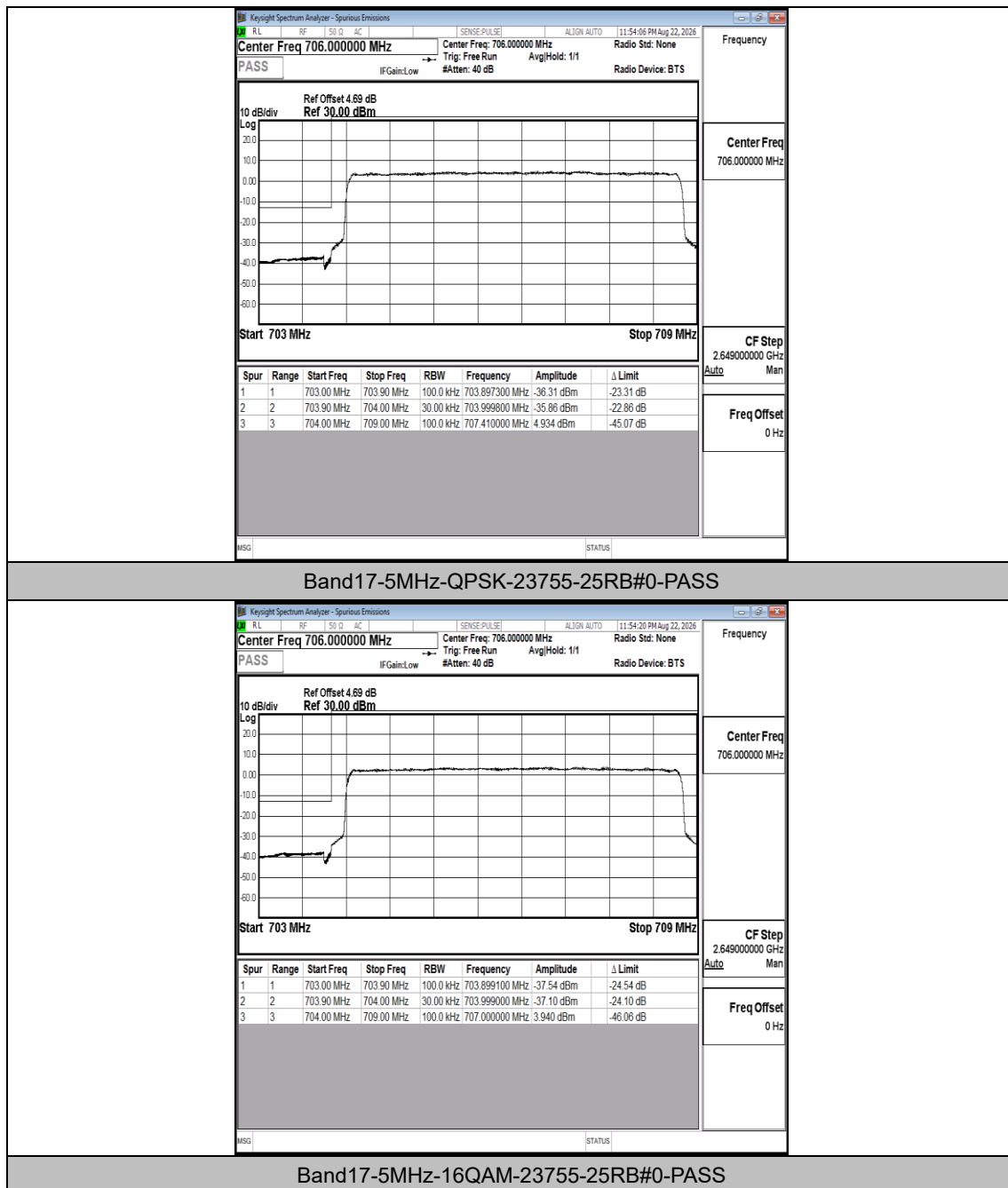


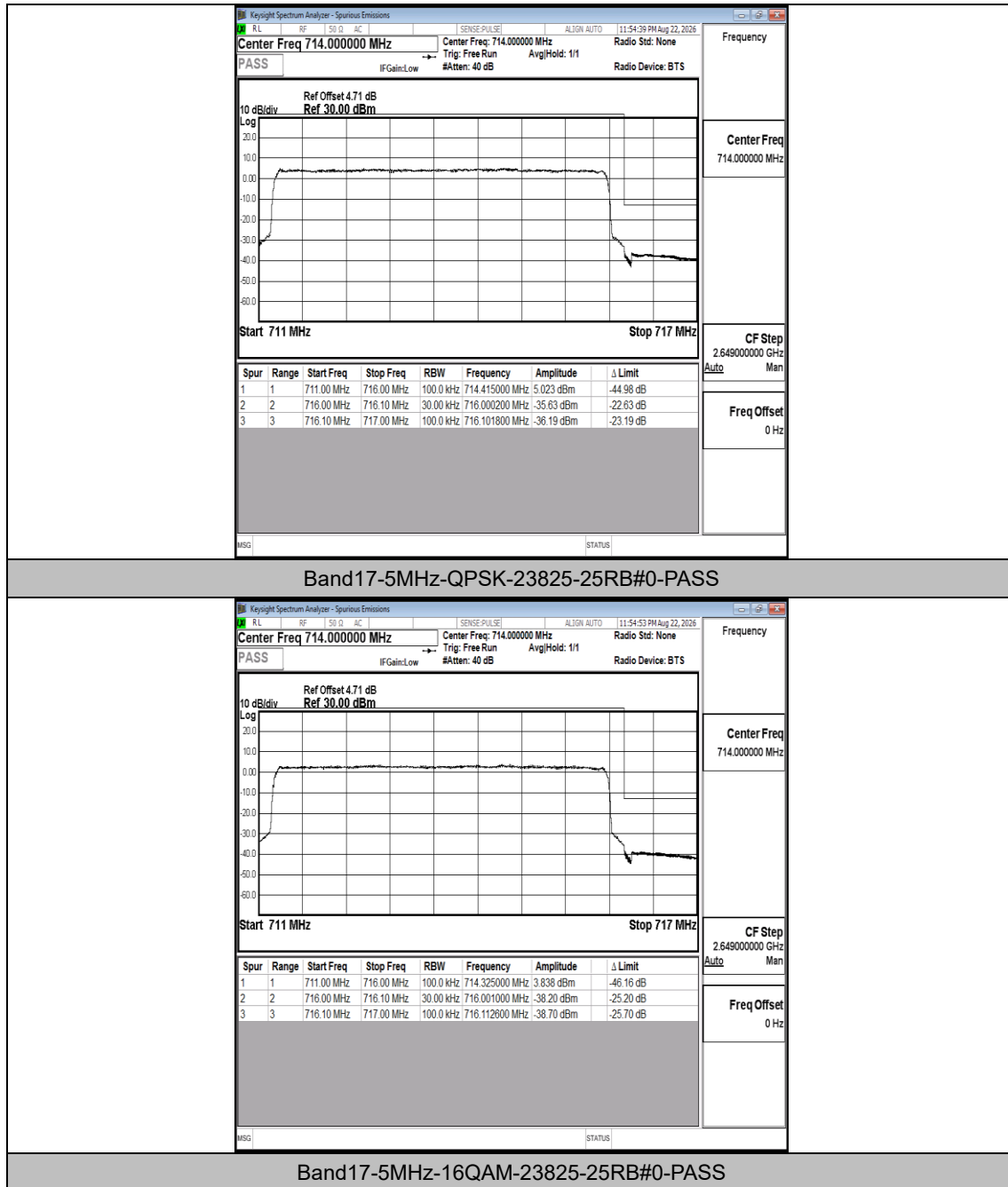
M.4 Band Edge

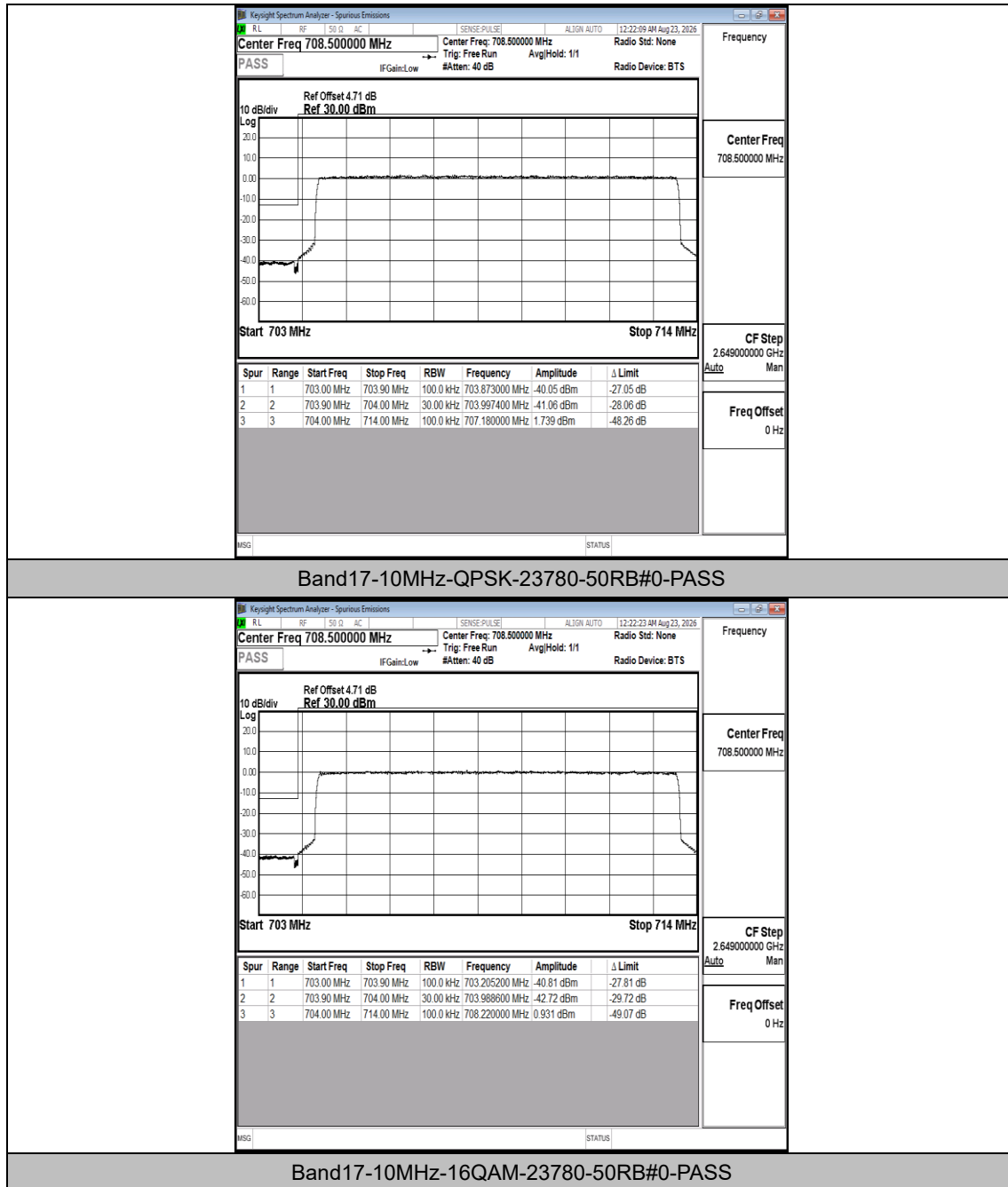
Test Result

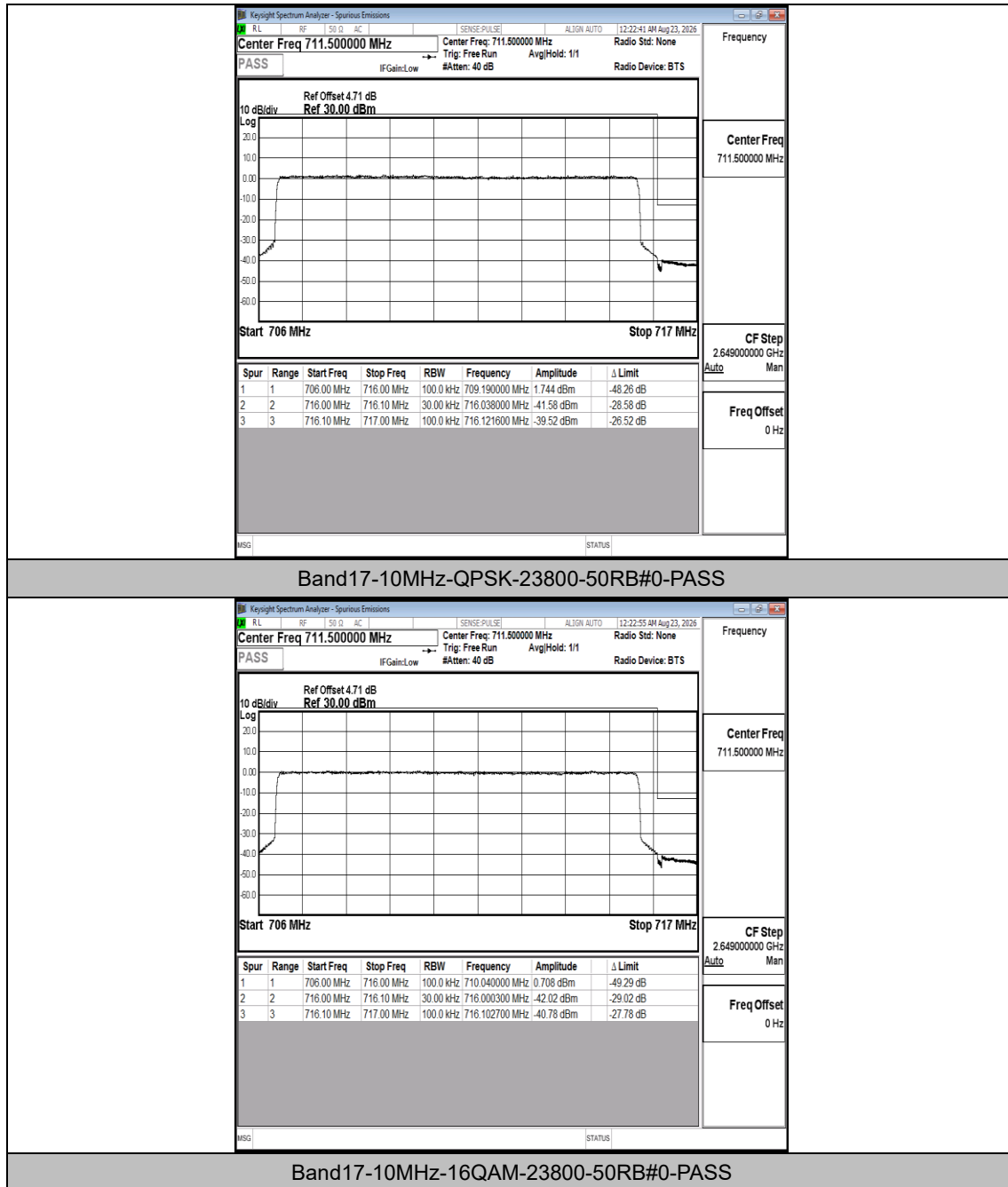
Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Margin (dB)	Verdict
Band17	5MHz	QPSK	23755	25RB#0	-35.86	22.86	PASS
Band17	5MHz	16QAM	23755	25RB#0	-37.10	24.10	PASS
Band17	5MHz	QPSK	23825	25RB#0	-35.63	22.63	PASS
Band17	5MHz	16QAM	23825	25RB#0	-38.20	25.20	PASS
Band17	10MHz	QPSK	23780	50RB#0	-40.05	27.05	PASS
Band17	10MHz	16QAM	23780	50RB#0	-40.81	27.81	PASS
Band17	10MHz	QPSK	23800	50RB#0	-39.52	26.52	PASS
Band17	10MHz	16QAM	23800	50RB#0	-40.78	27.78	PASS

Test Graphs









M.5 Conducted Spurious Emission

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Frequency Range	Result (dBm)	Limit (dBm)	Verdict
Band17	5MHz	QPSK	23755	1RB#0	0.009~0.15	-52.67	-33.0	PASS
Band17	5MHz	QPSK	23755	1RB#0	0.15~30	-64.70	-23.0	PASS
Band17	5MHz	QPSK	23755	1RB#0	30~1000	-41.75	-13.0	PASS
Band17	5MHz	QPSK	23755	1RB#0	1000~3000	-35.67	-13.0	PASS
Band17	5MHz	QPSK	23755	1RB#0	3000~10000	-39.82	-13.0	PASS
Band17	5MHz	16QAM	23755	1RB#0	0.009~0.15	-53.29	-33.0	PASS
Band17	5MHz	16QAM	23755	1RB#0	0.15~30	-62.62	-23.0	PASS
Band17	5MHz	16QAM	23755	1RB#0	30~1000	-43.95	-13.0	PASS
Band17	5MHz	16QAM	23755	1RB#0	1000~3000	-36.45	-13.0	PASS
Band17	5MHz	16QAM	23755	1RB#0	3000~10000	-39.74	-13.0	PASS
Band17	5MHz	QPSK	23790	1RB#0	0.009~0.15	-53.74	-33.0	PASS
Band17	5MHz	QPSK	23790	1RB#0	0.15~30	-64.48	-23.0	PASS
Band17	5MHz	QPSK	23790	1RB#0	30~1000	-43.18	-13.0	PASS
Band17	5MHz	QPSK	23790	1RB#0	1000~3000	-40.10	-13.0	PASS
Band17	5MHz	QPSK	23790	1RB#0	3000~10000	-39.83	-13.0	PASS
Band17	5MHz	16QAM	23790	1RB#0	0.009~0.15	-51.27	-33.0	PASS
Band17	5MHz	16QAM	23790	1RB#0	0.15~30	-63.11	-23.0	PASS
Band17	5MHz	16QAM	23790	1RB#0	30~1000	-44.16	-13.0	PASS
Band17	5MHz	16QAM	23790	1RB#0	1000~3000	-40.45	-13.0	PASS
Band17	5MHz	16QAM	23790	1RB#0	3000~10000	-39.94	-13.0	PASS
Band17	5MHz	QPSK	23825	1RB#0	0.009~0.15	-52.99	-33.0	PASS
Band17	5MHz	QPSK	23825	1RB#0	0.15~30	-63.77	-23.0	PASS
Band17	5MHz	QPSK	23825	1RB#0	30~1000	-40.28	-13.0	PASS
Band17	5MHz	QPSK	23825	1RB#0	1000~3000	-35.29	-13.0	PASS
Band17	5MHz	QPSK	23825	1RB#0	3000~10000	-39.51	-13.0	PASS
Band17	5MHz	16QAM	23825	1RB#0	0.009~0.15	-52.13	-33.0	PASS
Band17	5MHz	16QAM	23825	1RB#0	0.15~30	-62.66	-23.0	PASS
Band17	5MHz	16QAM	23825	1RB#0	30~1000	-40.69	-13.0	PASS
Band17	5MHz	16QAM	23825	1RB#0	1000~3000	-38.52	-13.0	PASS
Band17	5MHz	16QAM	23825	1RB#0	3000~10000	-40.19	-13.0	PASS
Band17	10MHz	QPSK	23780	1RB#0	0.009~0.15	-52.17	-33.0	PASS
Band17	10MHz	QPSK	23780	1RB#0	0.15~30	-63.27	-23.0	PASS
Band17	10MHz	QPSK	23780	1RB#0	30~1000	-46.95	-13.0	PASS
Band17	10MHz	QPSK	23780	1RB#0	1000~3000	-35.47	-13.0	PASS
Band17	10MHz	QPSK	23780	1RB#0	3000~10000	-39.41	-13.0	PASS

Band17	10MHz	16QAM	23780	1RB#0	0.009~0.15	-54.02	-33.0	PASS
Band17	10MHz	16QAM	23780	1RB#0	0.15~30	-62.05	-23.0	PASS
Band17	10MHz	16QAM	23780	1RB#0	30~1000	-44.72	-13.0	PASS
Band17	10MHz	16QAM	23780	1RB#0	1000~3000	-34.71	-13.0	PASS
Band17	10MHz	16QAM	23780	1RB#0	3000~10000	-40.20	-13.0	PASS
Band17	10MHz	QPSK	23790	1RB#0	0.009~0.15	-52.86	-33.0	PASS
Band17	10MHz	QPSK	23790	1RB#0	0.15~30	-62.13	-23.0	PASS
Band17	10MHz	QPSK	23790	1RB#0	30~1000	-47.63	-13.0	PASS
Band17	10MHz	QPSK	23790	1RB#0	1000~3000	-37.66	-13.0	PASS
Band17	10MHz	QPSK	23790	1RB#0	3000~10000	-39.96	-13.0	PASS
Band17	10MHz	16QAM	23790	1RB#0	0.009~0.15	-53.82	-33.0	PASS
Band17	10MHz	16QAM	23790	1RB#0	0.15~30	-62.63	-23.0	PASS
Band17	10MHz	16QAM	23790	1RB#0	30~1000	-44.41	-13.0	PASS
Band17	10MHz	16QAM	23790	1RB#0	1000~3000	-37.98	-13.0	PASS
Band17	10MHz	16QAM	23790	1RB#0	3000~10000	-39.54	-13.0	PASS
Band17	10MHz	QPSK	23800	1RB#0	0.009~0.15	-51.65	-33.0	PASS
Band17	10MHz	QPSK	23800	1RB#0	0.15~30	-64.17	-23.0	PASS
Band17	10MHz	QPSK	23800	1RB#0	30~1000	-45.97	-13.0	PASS
Band17	10MHz	QPSK	23800	1RB#0	1000~3000	-37.53	-13.0	PASS
Band17	10MHz	QPSK	23800	1RB#0	3000~10000	-39.86	-13.0	PASS
Band17	10MHz	16QAM	23800	1RB#0	0.009~0.15	-52.93	-33.0	PASS
Band17	10MHz	16QAM	23800	1RB#0	0.15~30	-62.51	-23.0	PASS
Band17	10MHz	16QAM	23800	1RB#0	30~1000	-48.04	-13.0	PASS
Band17	10MHz	16QAM	23800	1RB#0	1000~3000	-37.24	-13.0	PASS
Band17	10MHz	16QAM	23800	1RB#0	3000~10000	-39.85	-13.0	PASS

Test Graphs

