

Appendix M: Test Data for E-UTRA Band 17

Product Name: Smart Phone

Test Model: ULTRA S26

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	24.84	PASS
Band17	5MHz	QPSK	23755	1RB#12	24.72	PASS
Band17	5MHz	QPSK	23755	1RB#24	24.47	PASS
Band17	5MHz	QPSK	23755	12RB#0	24.85	PASS
Band17	5MHz	QPSK	23755	12RB#6	24.94	PASS
Band17	5MHz	QPSK	23755	12RB#13	24.72	PASS
Band17	5MHz	QPSK	23755	25RB#0	24.84	PASS
Band17	5MHz	16QAM	23755	1RB#0	24.18	PASS
Band17	5MHz	16QAM	23755	1RB#12	24.83	PASS
Band17	5MHz	16QAM	23755	1RB#24	24.12	PASS
Band17	5MHz	16QAM	23755	12RB#0	23.50	PASS
Band17	5MHz	16QAM	23755	12RB#6	23.39	PASS
Band17	5MHz	16QAM	23755	12RB#13	23.46	PASS
Band17	5MHz	16QAM	23755	25RB#0	23.39	PASS
Band17	5MHz	QPSK	23790	1RB#0	24.68	PASS
Band17	5MHz	QPSK	23790	1RB#12	24.68	PASS
Band17	5MHz	QPSK	23790	1RB#24	24.45	PASS
Band17	5MHz	QPSK	23790	12RB#0	24.66	PASS
Band17	5MHz	QPSK	23790	12RB#6	24.59	PASS
Band17	5MHz	QPSK	23790	12RB#13	24.32	PASS
Band17	5MHz	QPSK	23790	25RB#0	24.61	PASS
Band17	5MHz	16QAM	23790	1RB#0	23.81	PASS
Band17	5MHz	16QAM	23790	1RB#12	24.34	PASS
Band17	5MHz	16QAM	23790	1RB#24	23.38	PASS
Band17	5MHz	16QAM	23790	12RB#0	23.21	PASS
Band17	5MHz	16QAM	23790	12RB#6	23.25	PASS
Band17	5MHz	16QAM	23790	12RB#13	22.85	PASS
Band17	5MHz	16QAM	23790	25RB#0	23.33	PASS
Band17	5MHz	QPSK	23825	1RB#0	24.38	PASS
Band17	5MHz	QPSK	23825	1RB#12	24.06	PASS
Band17	5MHz	QPSK	23825	1RB#24	24.11	PASS
Band17	5MHz	QPSK	23825	12RB#0	24.41	PASS
Band17	5MHz	QPSK	23825	12RB#6	24.19	PASS
Band17	5MHz	QPSK	23825	12RB#13	24.22	PASS
Band17	5MHz	QPSK	23825	25RB#0	24.24	PASS

Band17	5MHz	16QAM	23825	1RB#0	23.23	PASS
Band17	5MHz	16QAM	23825	1RB#12	23.63	PASS
Band17	5MHz	16QAM	23825	1RB#24	22.92	PASS
Band17	5MHz	16QAM	23825	12RB#0	22.90	PASS
Band17	5MHz	16QAM	23825	12RB#6	22.67	PASS
Band17	5MHz	16QAM	23825	12RB#13	22.66	PASS
Band17	5MHz	16QAM	23825	25RB#0	22.79	PASS
Band17	10MHz	QPSK	23780	1RB#0	24.80	PASS
Band17	10MHz	QPSK	23780	1RB#24	24.77	PASS
Band17	10MHz	QPSK	23780	1RB#49	24.09	PASS
Band17	10MHz	QPSK	23780	25RB#0	24.92	PASS
Band17	10MHz	QPSK	23780	25RB#12	24.60	PASS
Band17	10MHz	QPSK	23780	25RB#25	24.45	PASS
Band17	10MHz	QPSK	23780	50RB#0	24.68	PASS
Band17	10MHz	16QAM	23780	1RB#0	24.17	PASS
Band17	10MHz	16QAM	23780	1RB#24	24.75	PASS
Band17	10MHz	16QAM	23780	1RB#49	23.53	PASS
Band17	10MHz	16QAM	23780	25RB#0	23.52	PASS
Band17	10MHz	16QAM	23780	25RB#12	23.50	PASS
Band17	10MHz	16QAM	23780	25RB#25	23.14	PASS
Band17	10MHz	16QAM	23780	50RB#0	23.39	PASS
Band17	10MHz	QPSK	23790	1RB#0	25.03	PASS
Band17	10MHz	QPSK	23790	1RB#24	24.59	PASS
Band17	10MHz	QPSK	23790	1RB#49	24.36	PASS
Band17	10MHz	QPSK	23790	25RB#0	24.62	PASS
Band17	10MHz	QPSK	23790	25RB#12	24.56	PASS
Band17	10MHz	QPSK	23790	25RB#25	24.31	PASS
Band17	10MHz	QPSK	23790	50RB#0	24.61	PASS
Band17	10MHz	16QAM	23790	1RB#0	24.13	PASS
Band17	10MHz	16QAM	23790	1RB#24	24.37	PASS
Band17	10MHz	16QAM	23790	1RB#49	23.48	PASS
Band17	10MHz	16QAM	23790	25RB#0	23.46	PASS
Band17	10MHz	16QAM	23790	25RB#12	23.33	PASS
Band17	10MHz	16QAM	23790	25RB#25	23.07	PASS
Band17	10MHz	16QAM	23790	50RB#0	23.35	PASS
Band17	10MHz	QPSK	23800	1RB#0	24.82	PASS
Band17	10MHz	QPSK	23800	1RB#24	24.74	PASS
Band17	10MHz	QPSK	23800	1RB#49	24.09	PASS
Band17	10MHz	QPSK	23800	25RB#0	24.69	PASS
Band17	10MHz	QPSK	23800	25RB#12	24.64	PASS
Band17	10MHz	QPSK	23800	25RB#25	24.28	PASS

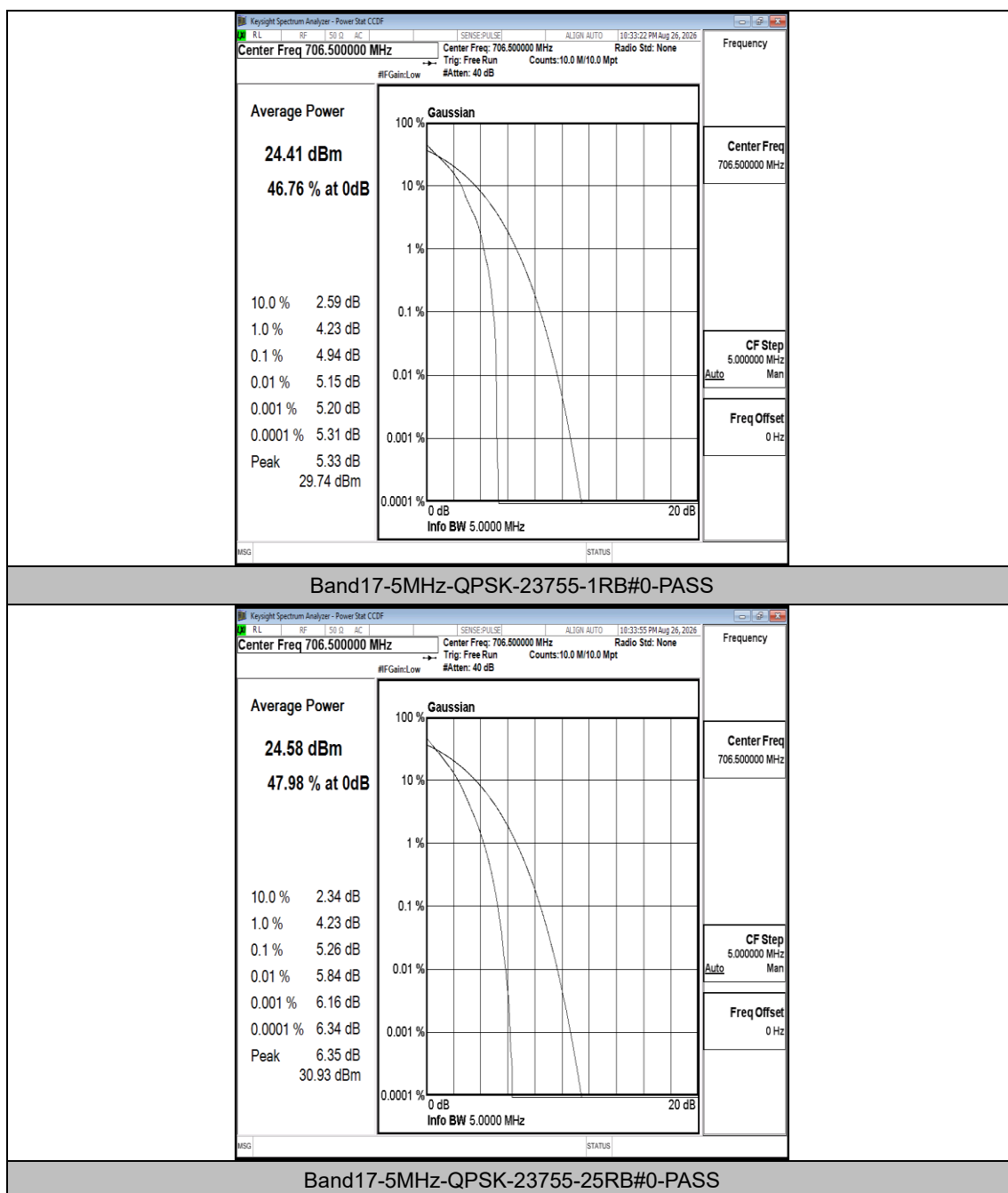
Band17	10MHz	QPSK	23800	50RB#0	24.69	PASS
Band17	10MHz	16QAM	23800	1RB#0	24.11	PASS
Band17	10MHz	16QAM	23800	1RB#24	24.91	PASS
Band17	10MHz	16QAM	23800	1RB#49	23.23	PASS
Band17	10MHz	16QAM	23800	25RB#0	23.37	PASS
Band17	10MHz	16QAM	23800	25RB#12	23.33	PASS
Band17	10MHz	16QAM	23800	25RB#25	22.64	PASS
Band17	10MHz	16QAM	23800	50RB#0	23.43	PASS

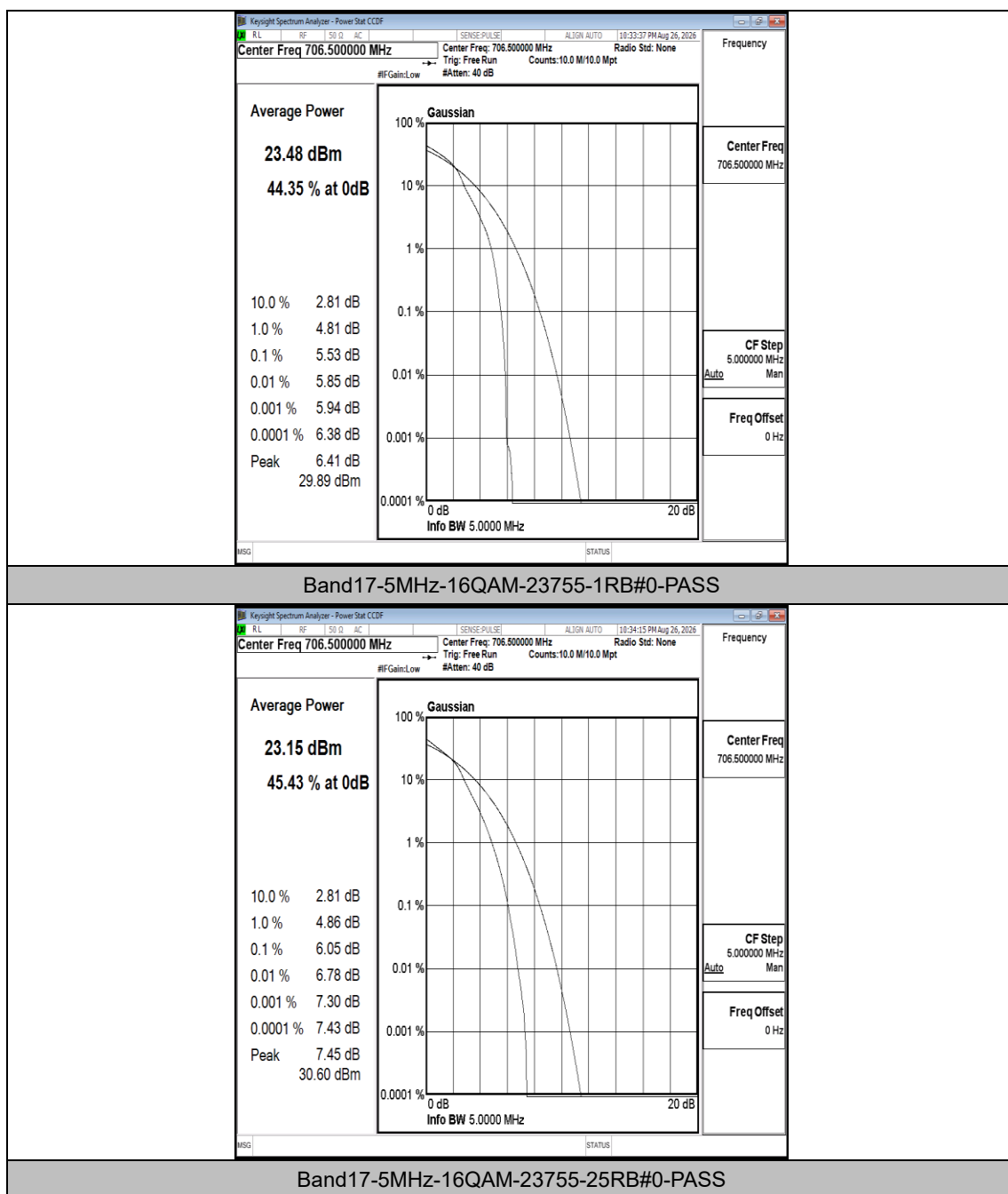
M.2 Peak-to-Average Ratio(CCDF)

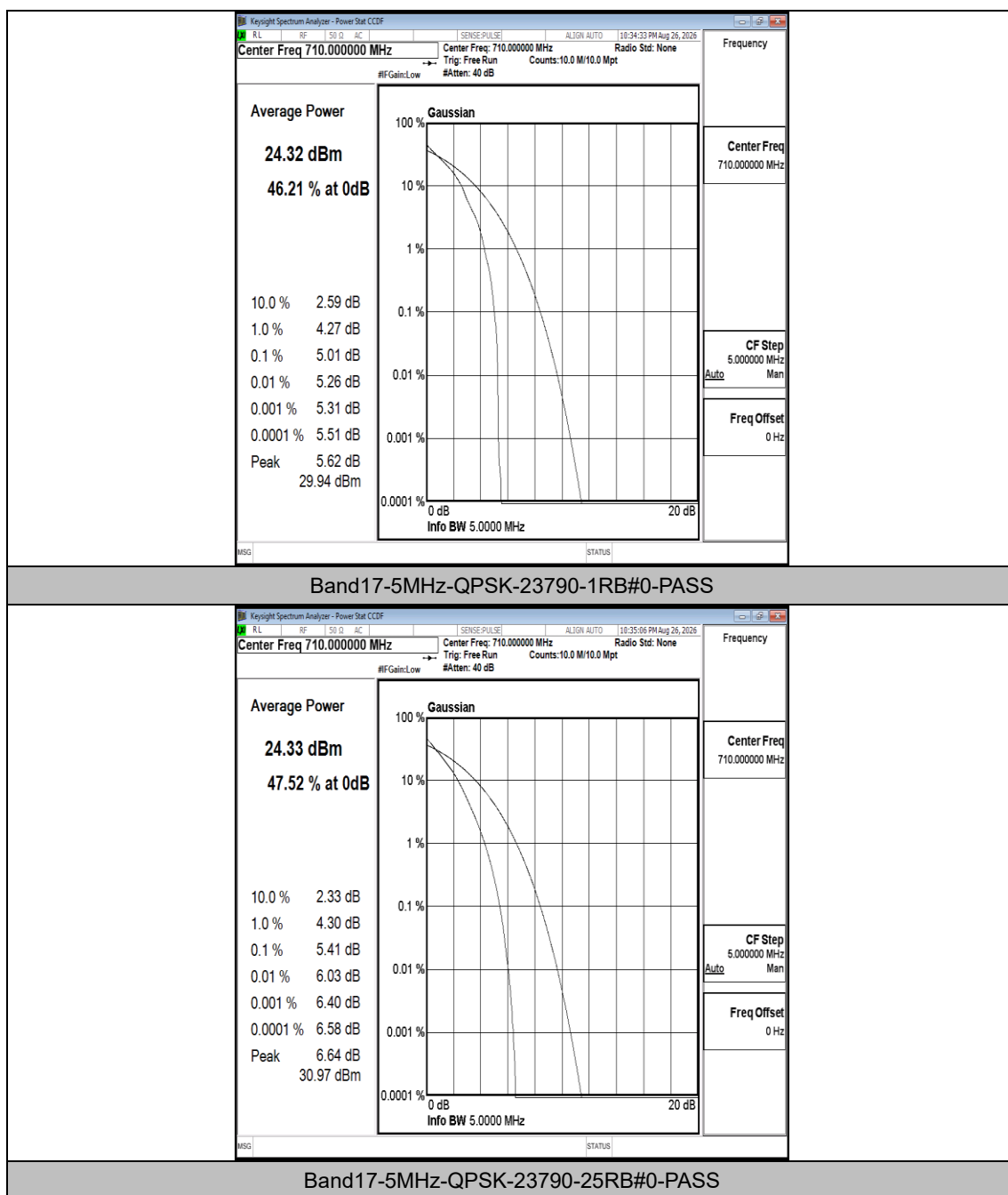
Test Result

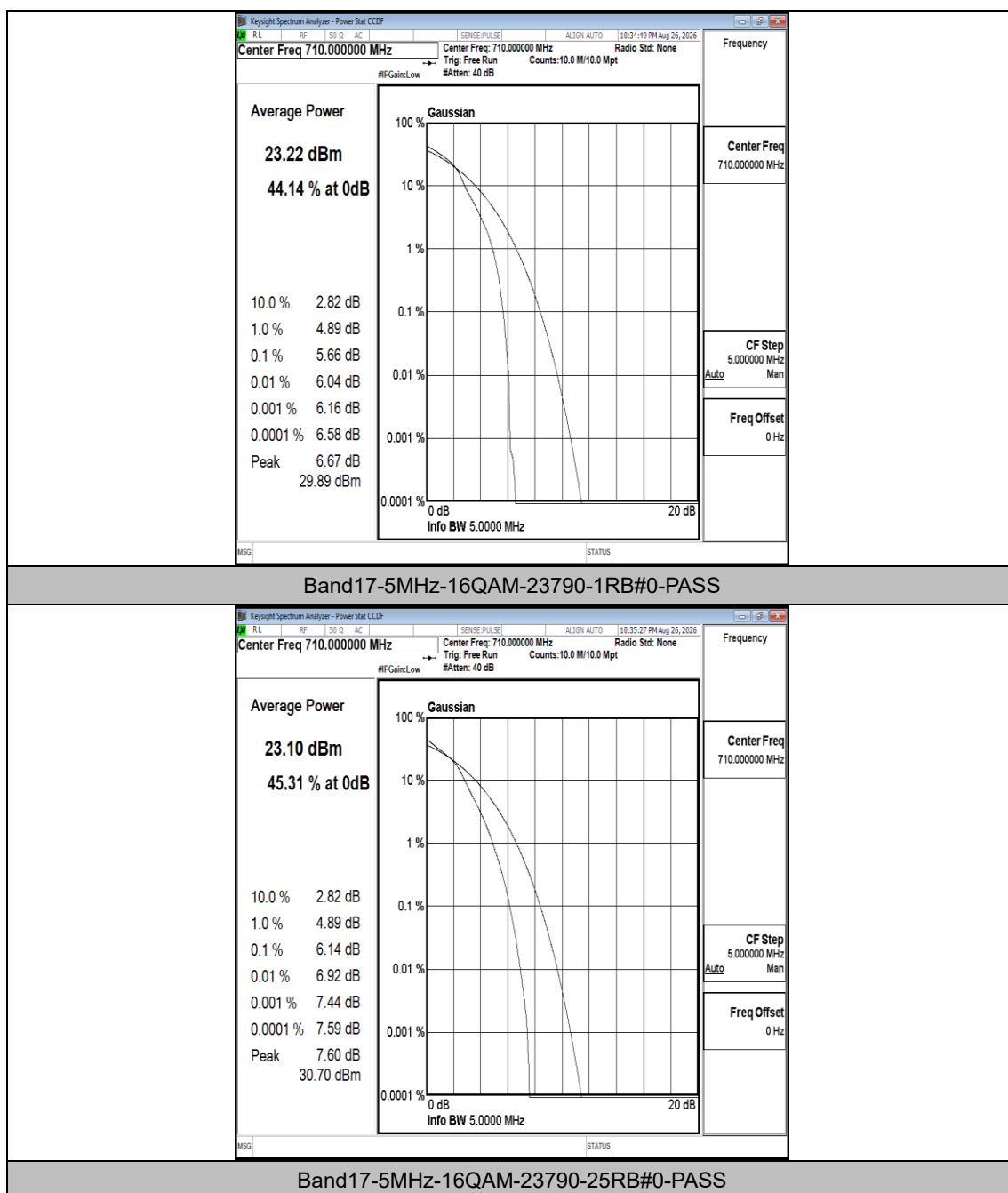
Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band17	5MHz	QPSK	23755	1RB#0	4.94	13	PASS
Band17	5MHz	QPSK	23755	25RB#0	5.26	13	PASS
Band17	5MHz	16QAM	23755	1RB#0	5.53	13	PASS
Band17	5MHz	16QAM	23755	25RB#0	6.05	13	PASS
Band17	5MHz	QPSK	23790	1RB#0	5.01	13	PASS
Band17	5MHz	QPSK	23790	25RB#0	5.41	13	PASS
Band17	5MHz	16QAM	23790	1RB#0	5.66	13	PASS
Band17	5MHz	16QAM	23790	25RB#0	6.14	13	PASS
Band17	5MHz	QPSK	23825	1RB#0	5.51	13	PASS
Band17	5MHz	QPSK	23825	25RB#0	5.39	13	PASS
Band17	5MHz	16QAM	23825	1RB#0	5.98	13	PASS
Band17	5MHz	16QAM	23825	25RB#0	6.17	13	PASS
Band17	10MHz	QPSK	23780	1RB#0	4.69	13	PASS
Band17	10MHz	QPSK	23780	50RB#0	5.36	13	PASS
Band17	10MHz	16QAM	23780	1RB#0	5.54	13	PASS
Band17	10MHz	16QAM	23780	50RB#0	6.12	13	PASS
Band17	10MHz	QPSK	23790	1RB#0	4.56	13	PASS
Band17	10MHz	QPSK	23790	50RB#0	5.25	13	PASS
Band17	10MHz	16QAM	23790	1RB#0	5.28	13	PASS
Band17	10MHz	16QAM	23790	50RB#0	6.12	13	PASS
Band17	10MHz	QPSK	23800	1RB#0	4.65	13	PASS
Band17	10MHz	QPSK	23800	50RB#0	5.25	13	PASS
Band17	10MHz	16QAM	23800	1RB#0	5.35	13	PASS
Band17	10MHz	16QAM	23800	50RB#0	6.07	13	PASS

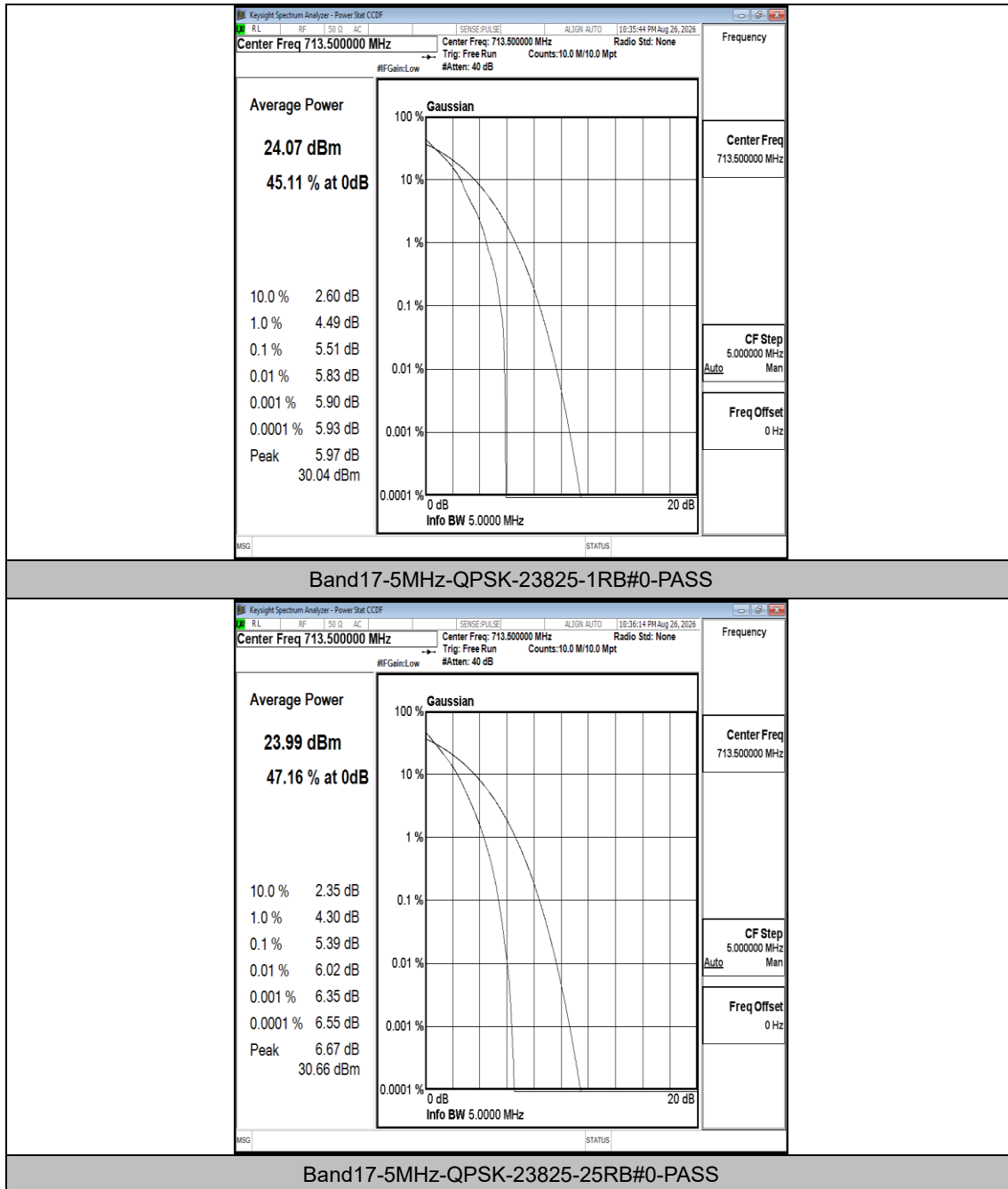
Test Graphs

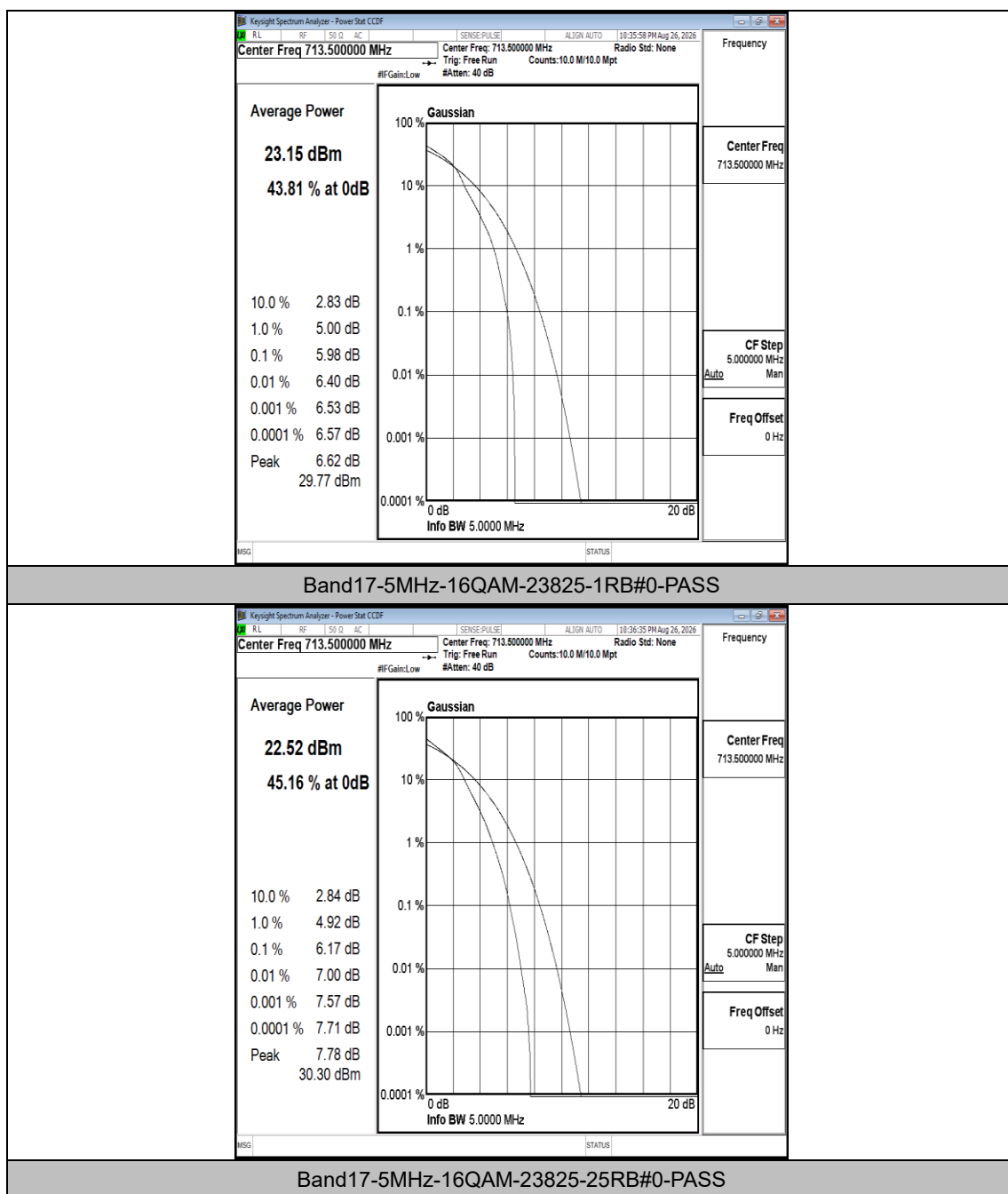


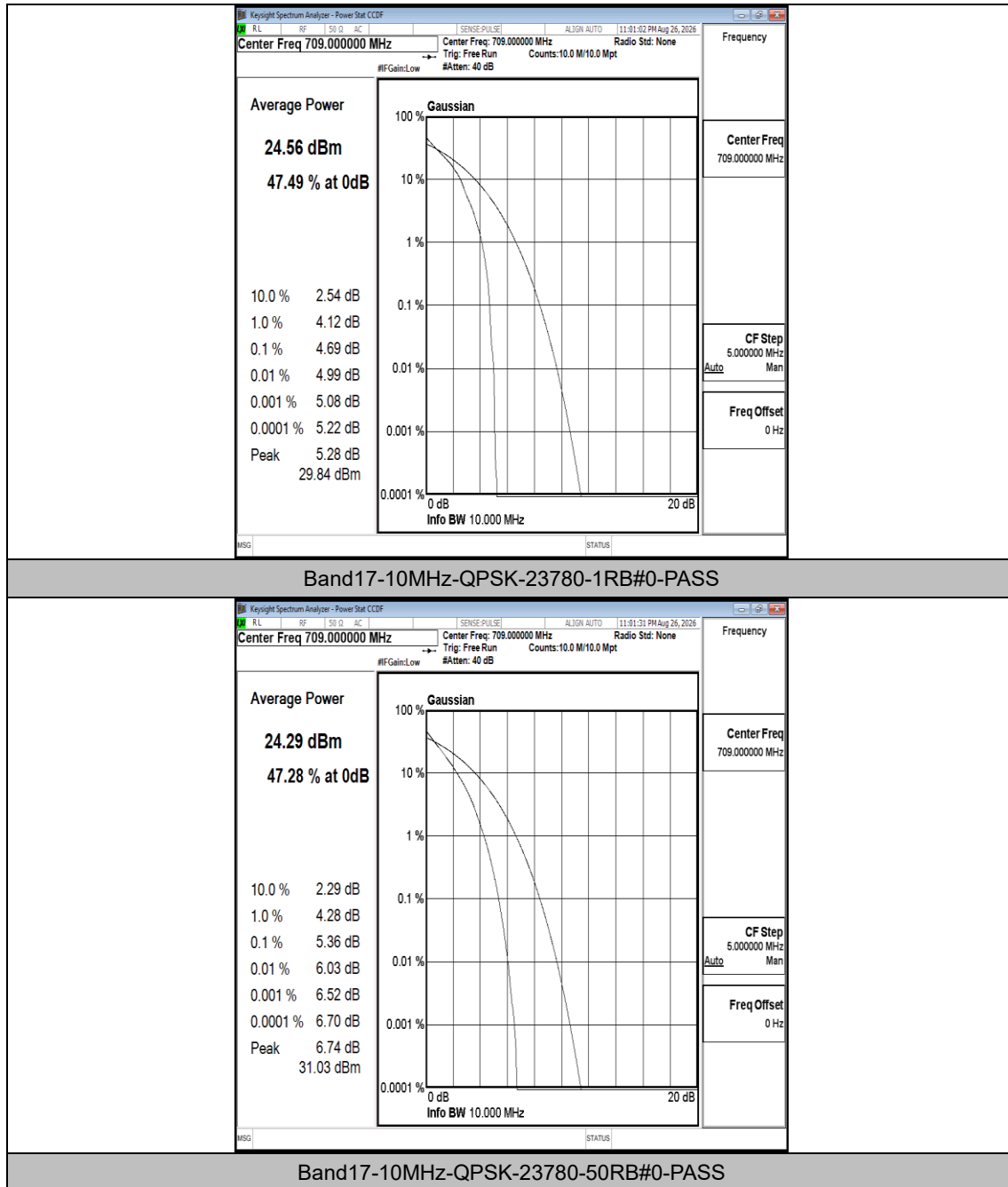


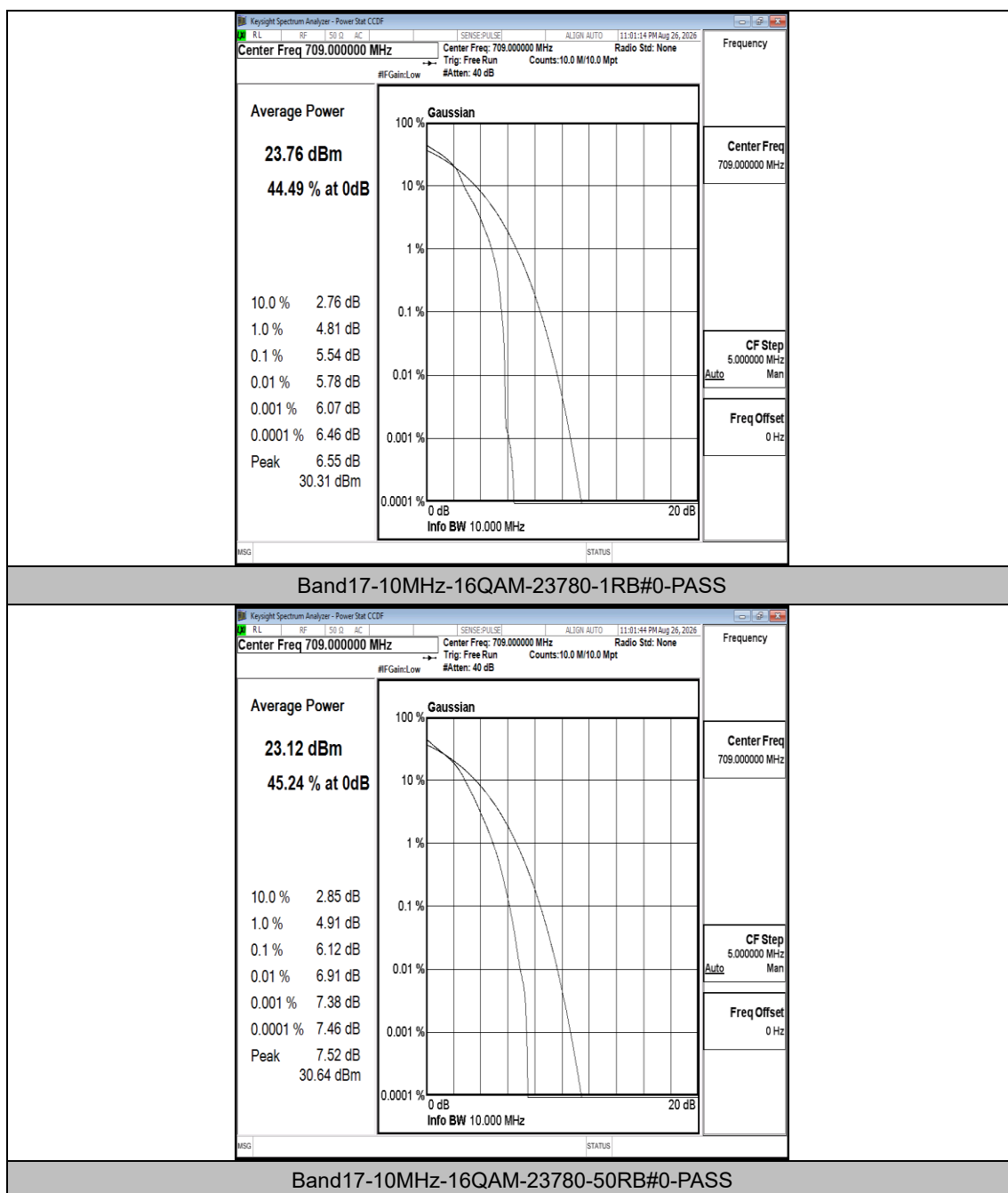


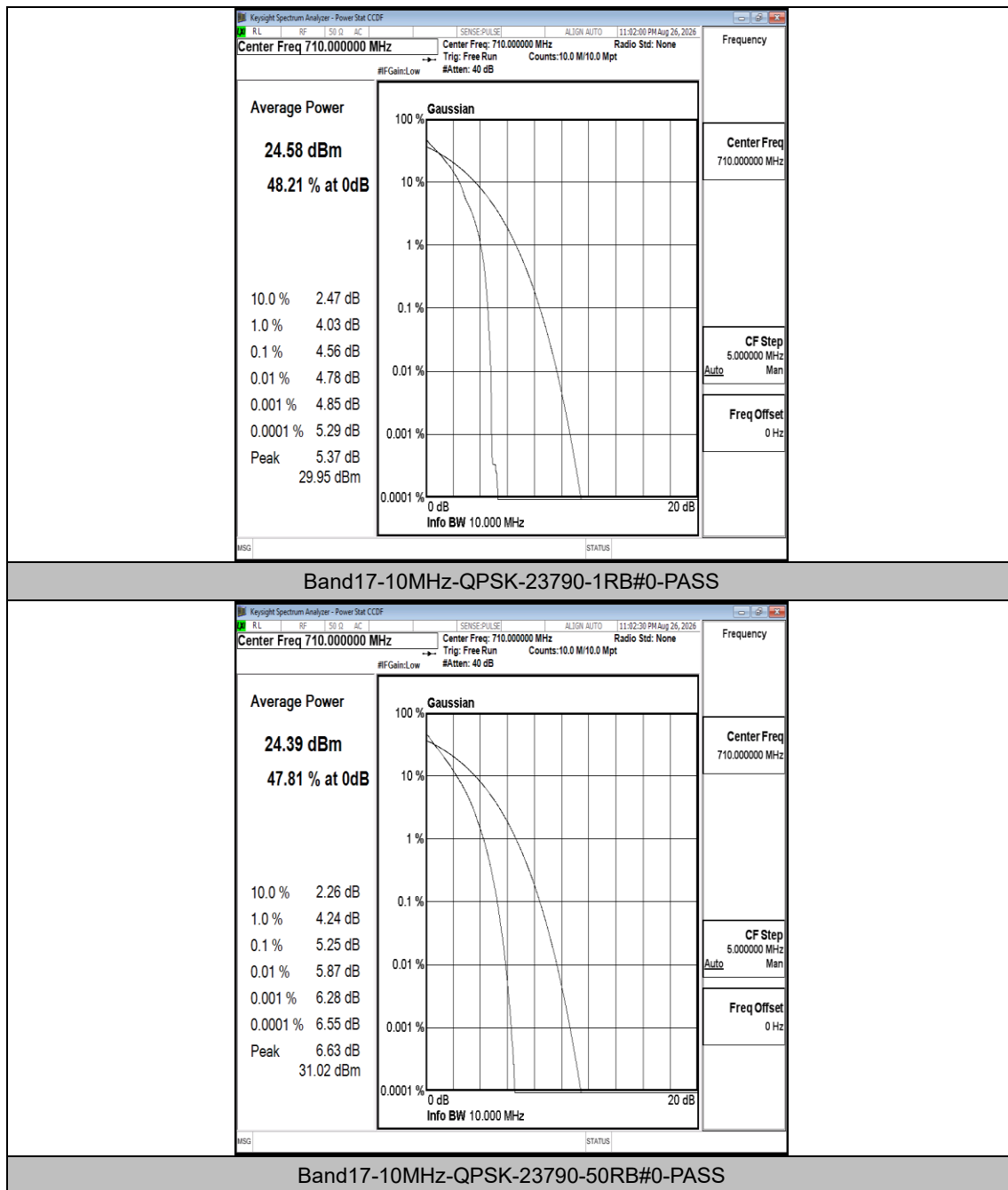


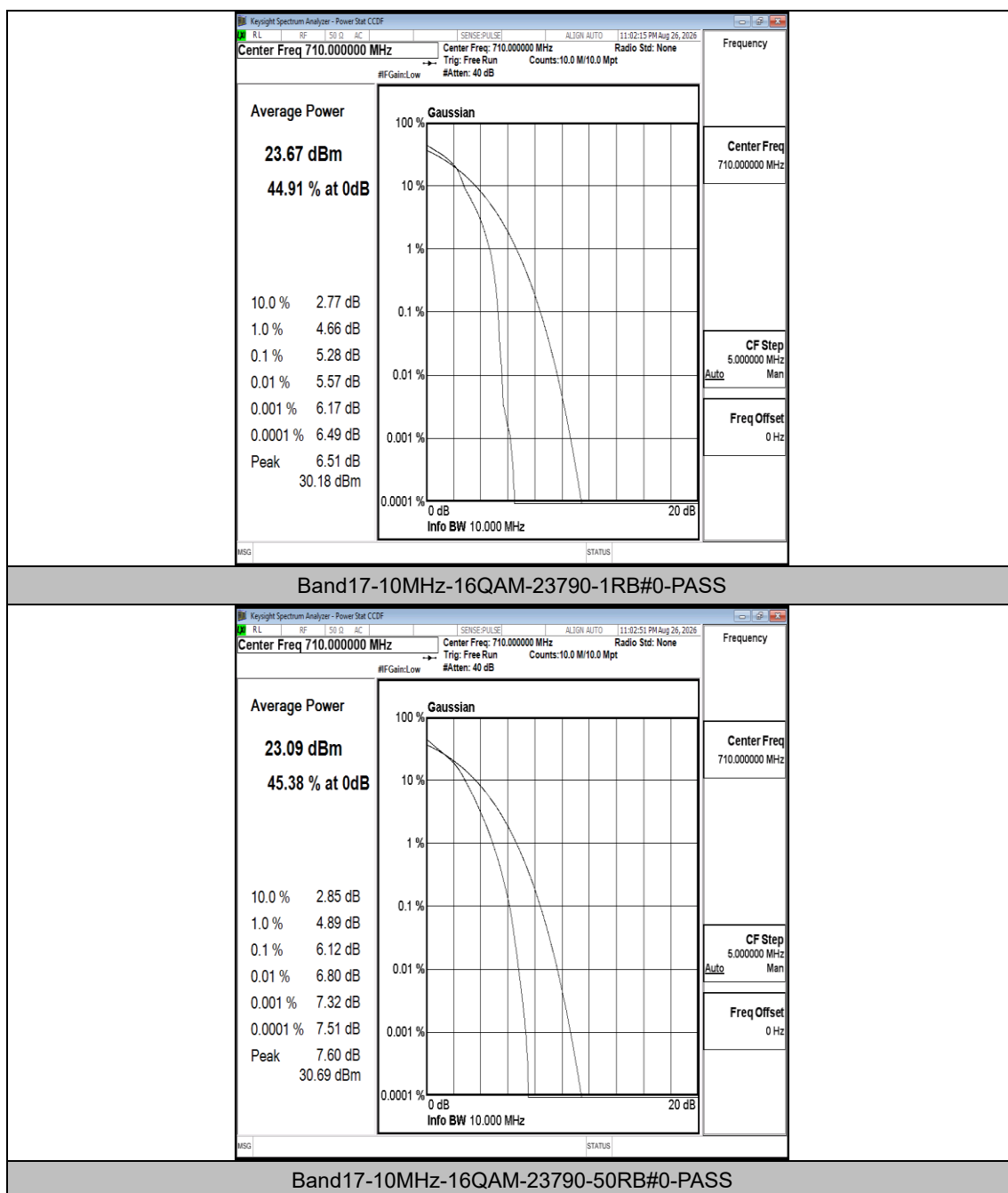


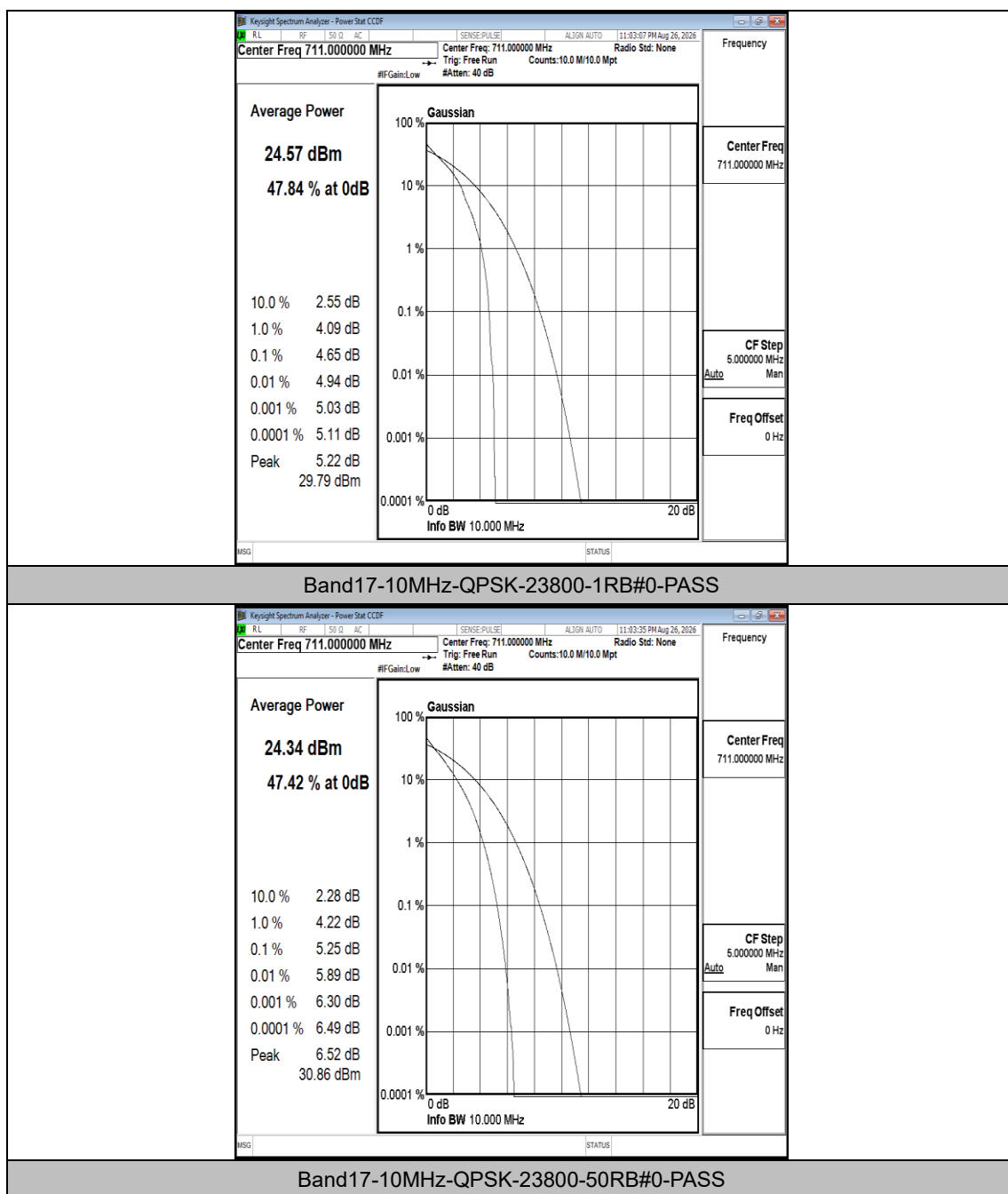


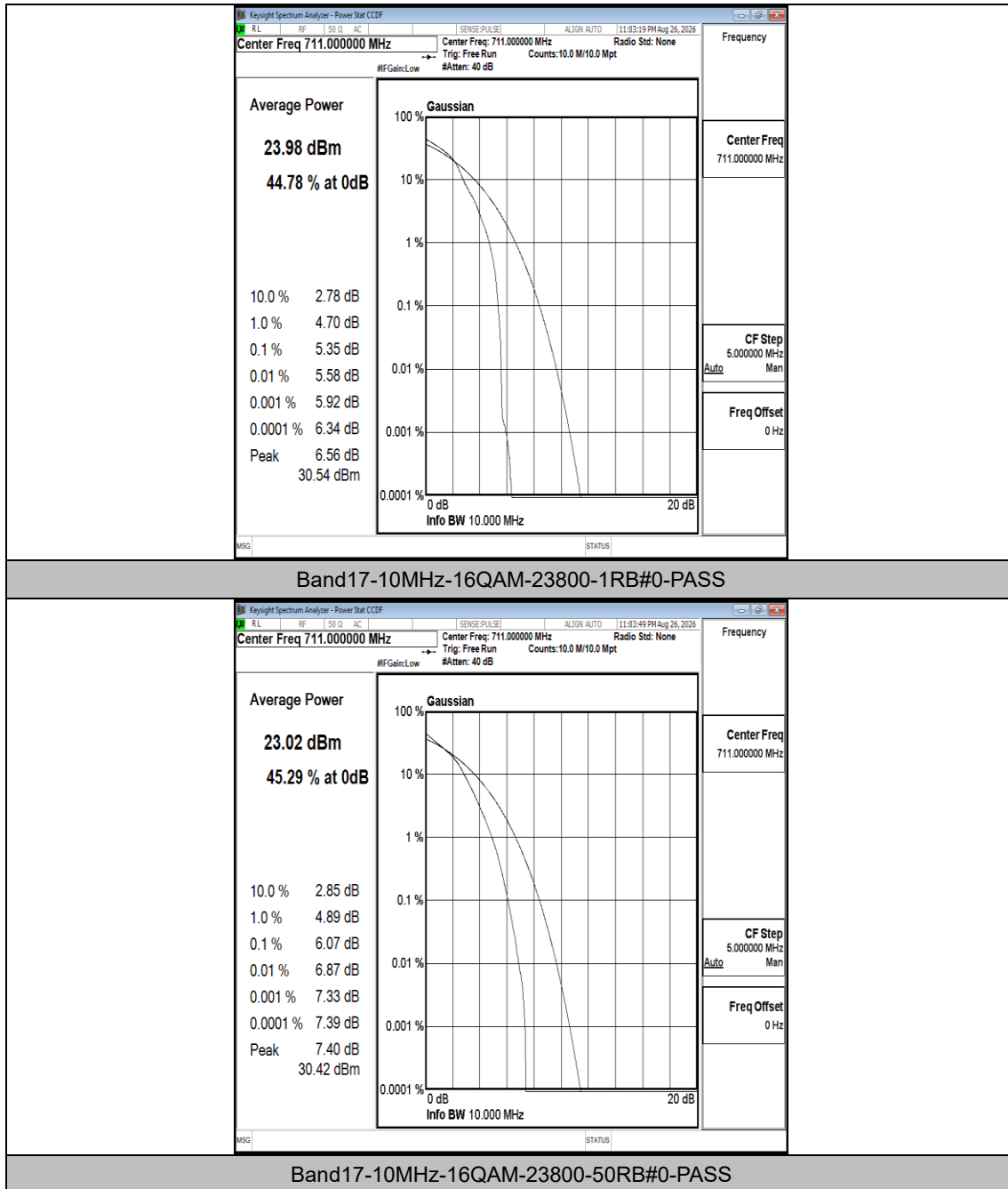










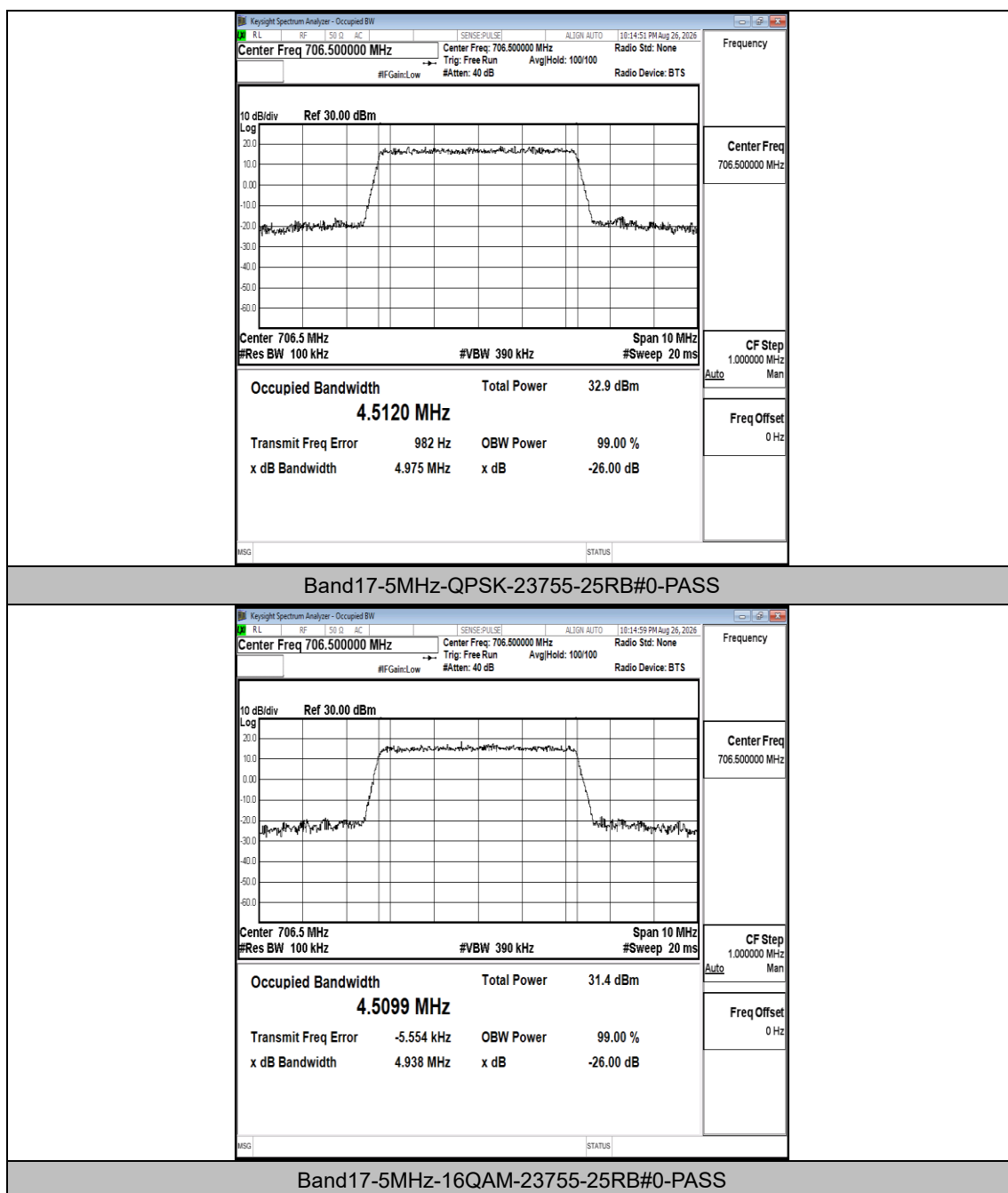


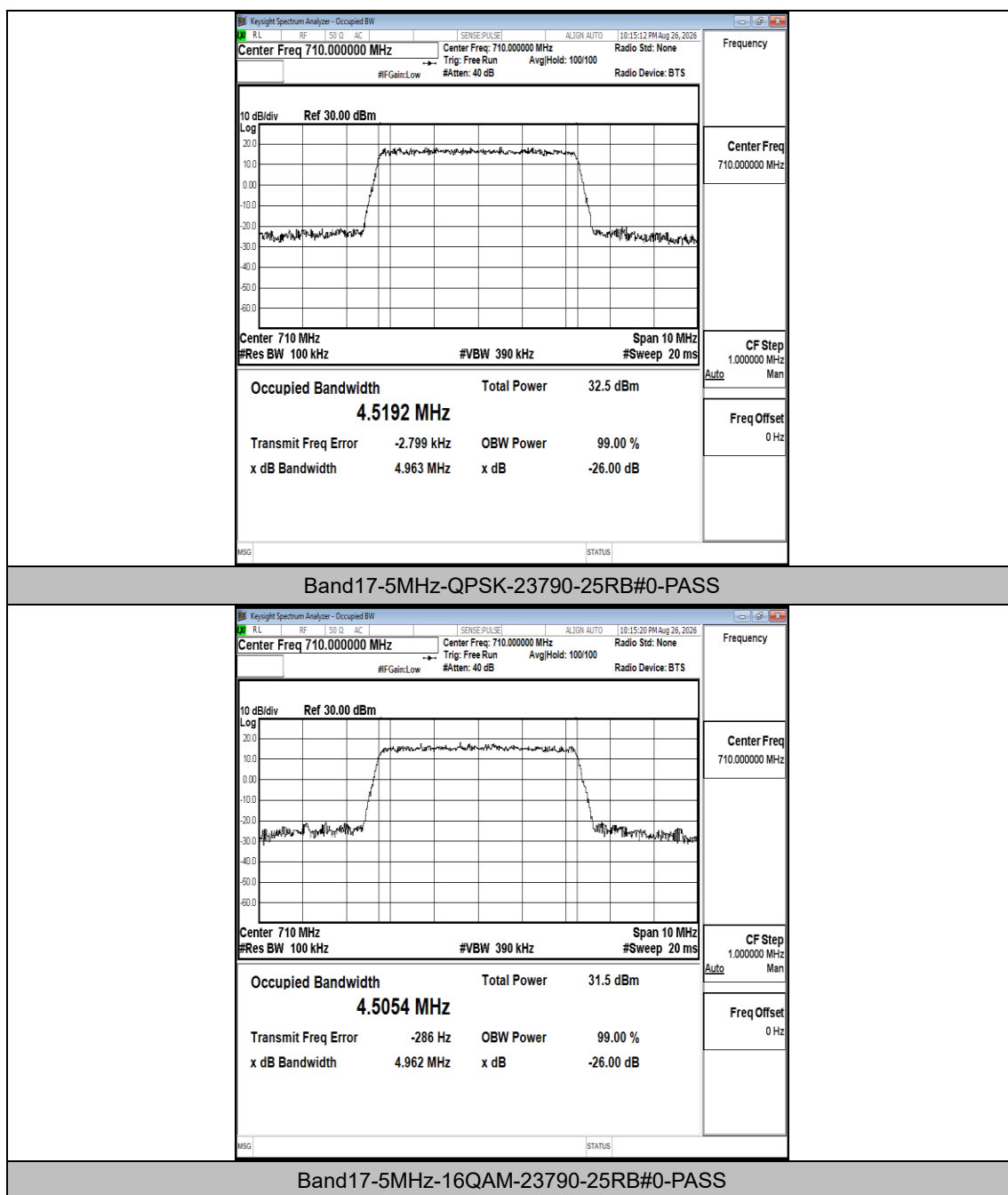
M.3 26dB Bandwidth and Occupied Bandwidth

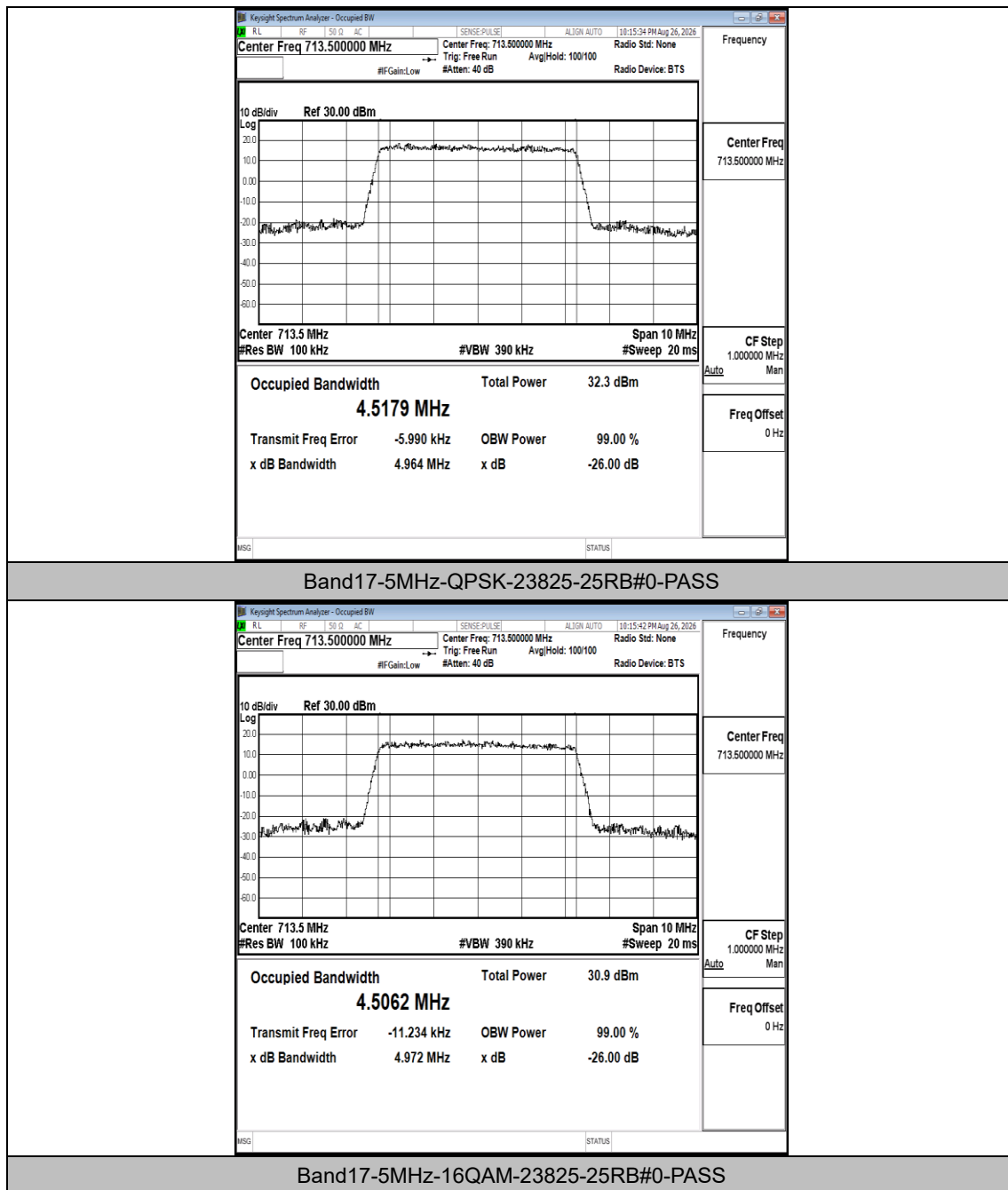
Test Result

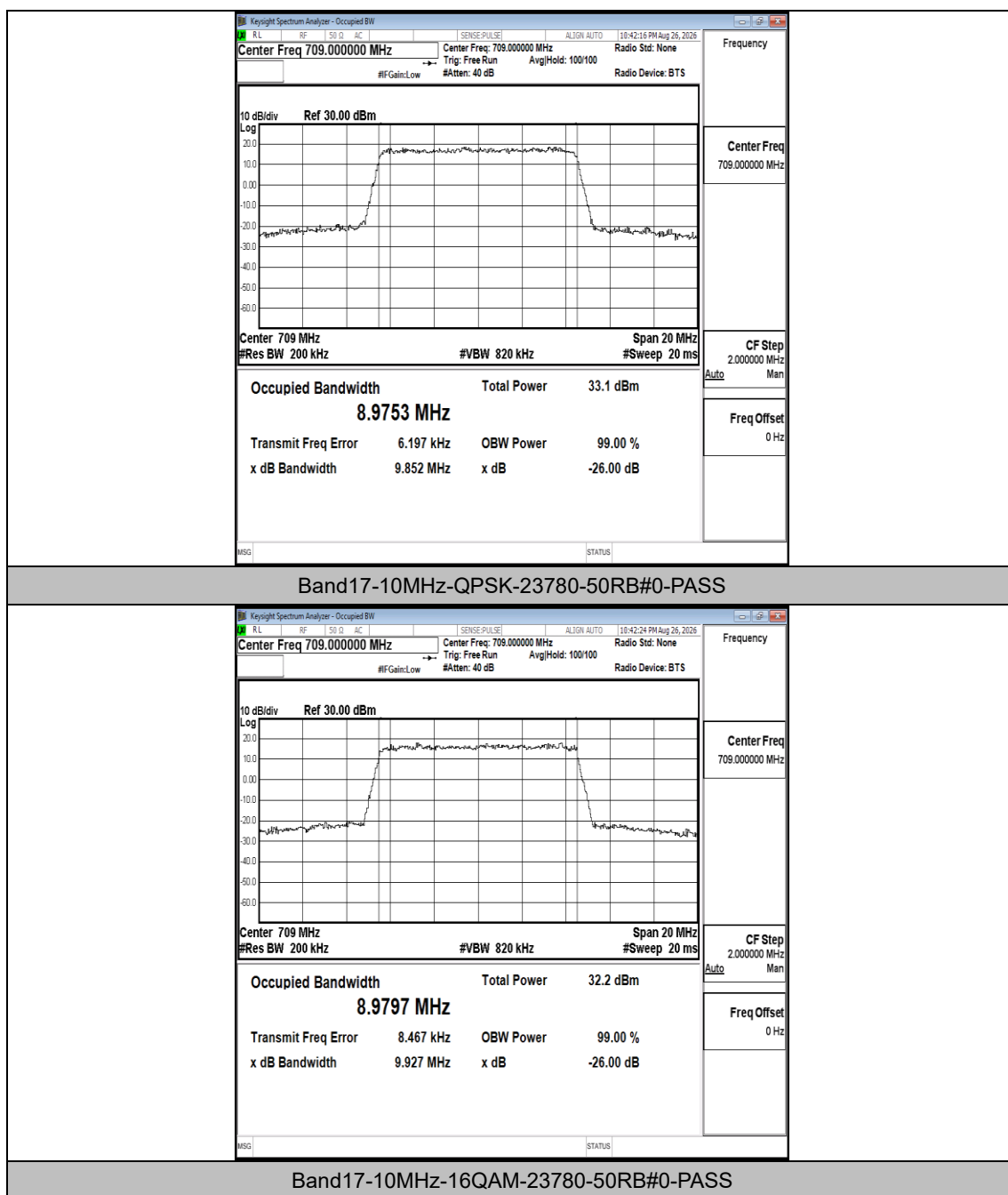
Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band17	5MHz	QPSK	23755	25RB#0	4.5120	4.975	PASS
Band17	5MHz	16QAM	23755	25RB#0	4.5099	4.938	PASS
Band17	5MHz	QPSK	23790	25RB#0	4.5192	4.963	PASS
Band17	5MHz	16QAM	23790	25RB#0	4.5054	4.962	PASS
Band17	5MHz	QPSK	23825	25RB#0	4.5179	4.964	PASS
Band17	5MHz	16QAM	23825	25RB#0	4.5062	4.972	PASS
Band17	10MHz	QPSK	23780	50RB#0	8.9753	9.852	PASS
Band17	10MHz	16QAM	23780	50RB#0	8.9797	9.927	PASS
Band17	10MHz	QPSK	23790	50RB#0	8.9942	9.864	PASS
Band17	10MHz	16QAM	23790	50RB#0	8.9753	9.919	PASS
Band17	10MHz	QPSK	23800	50RB#0	8.9583	9.885	PASS
Band17	10MHz	16QAM	23800	50RB#0	8.9943	9.893	PASS

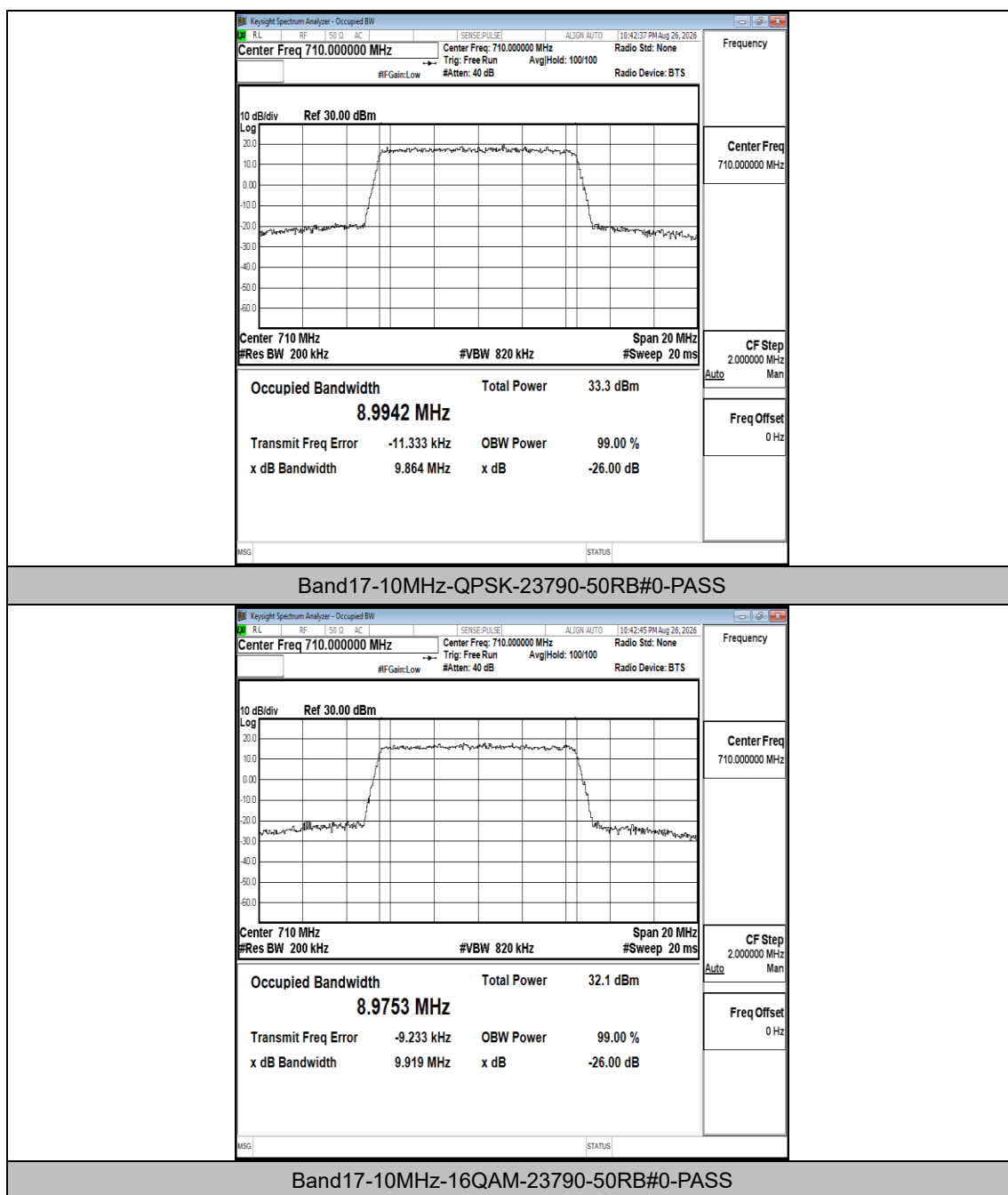
Test Graphs

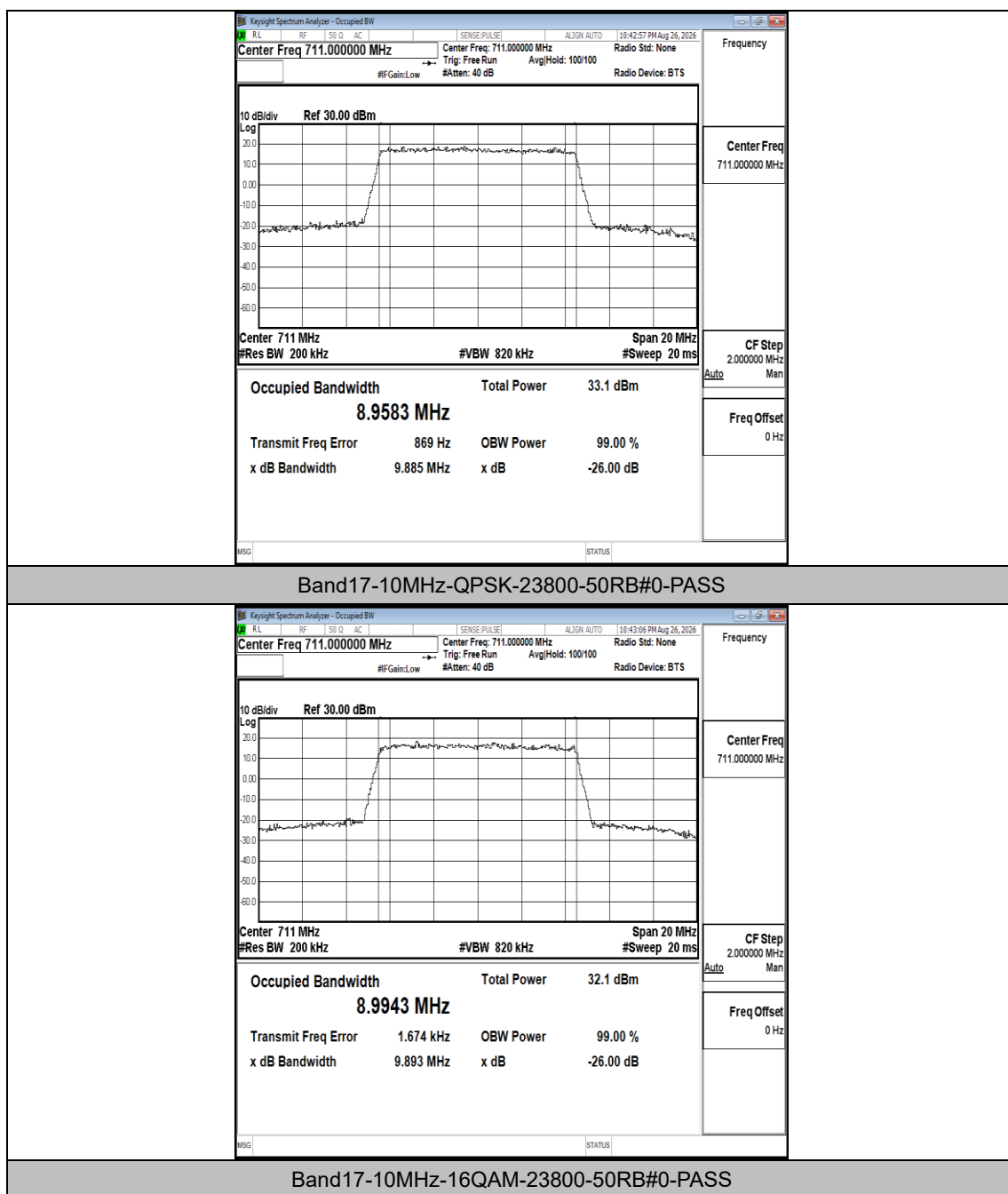










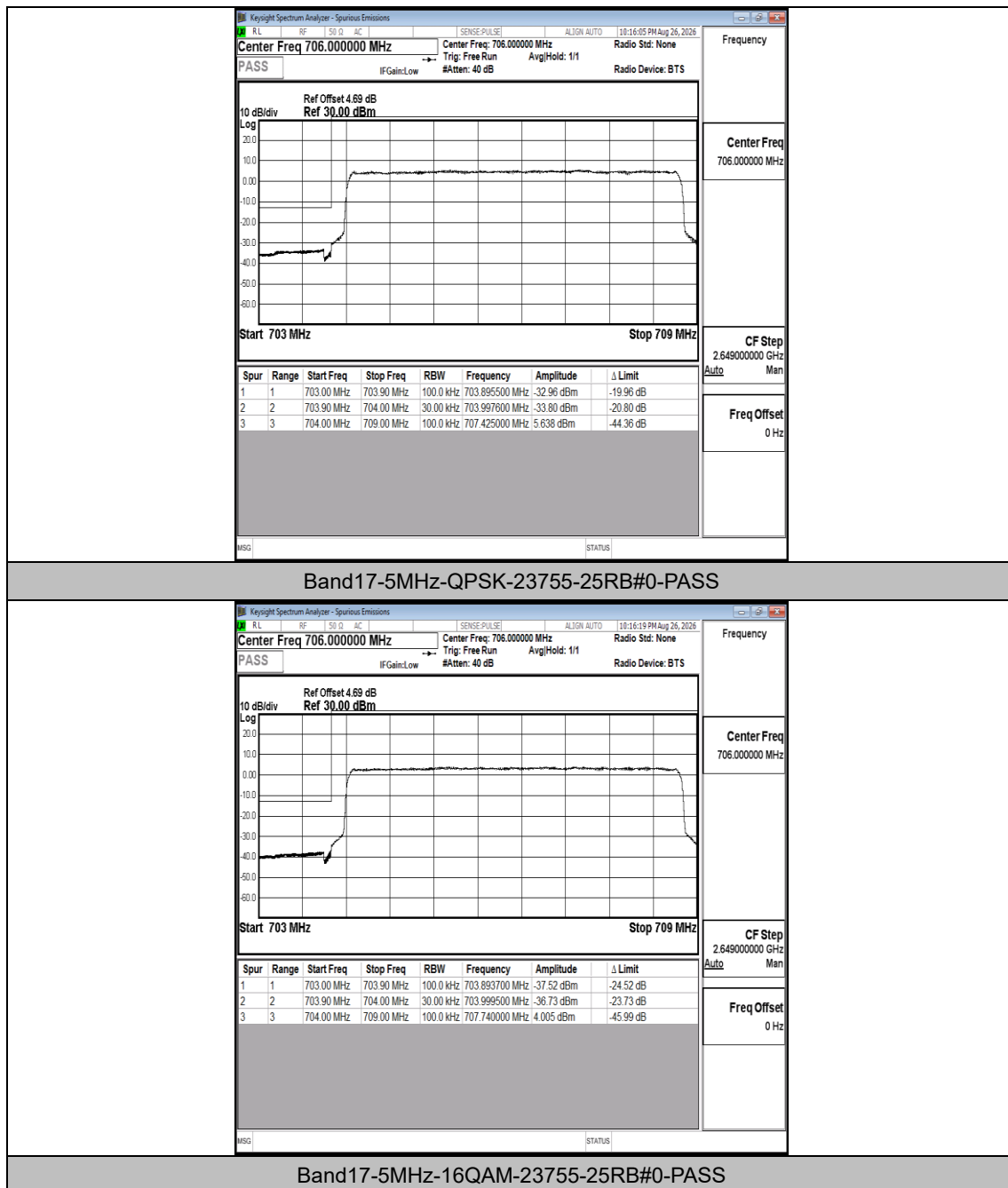


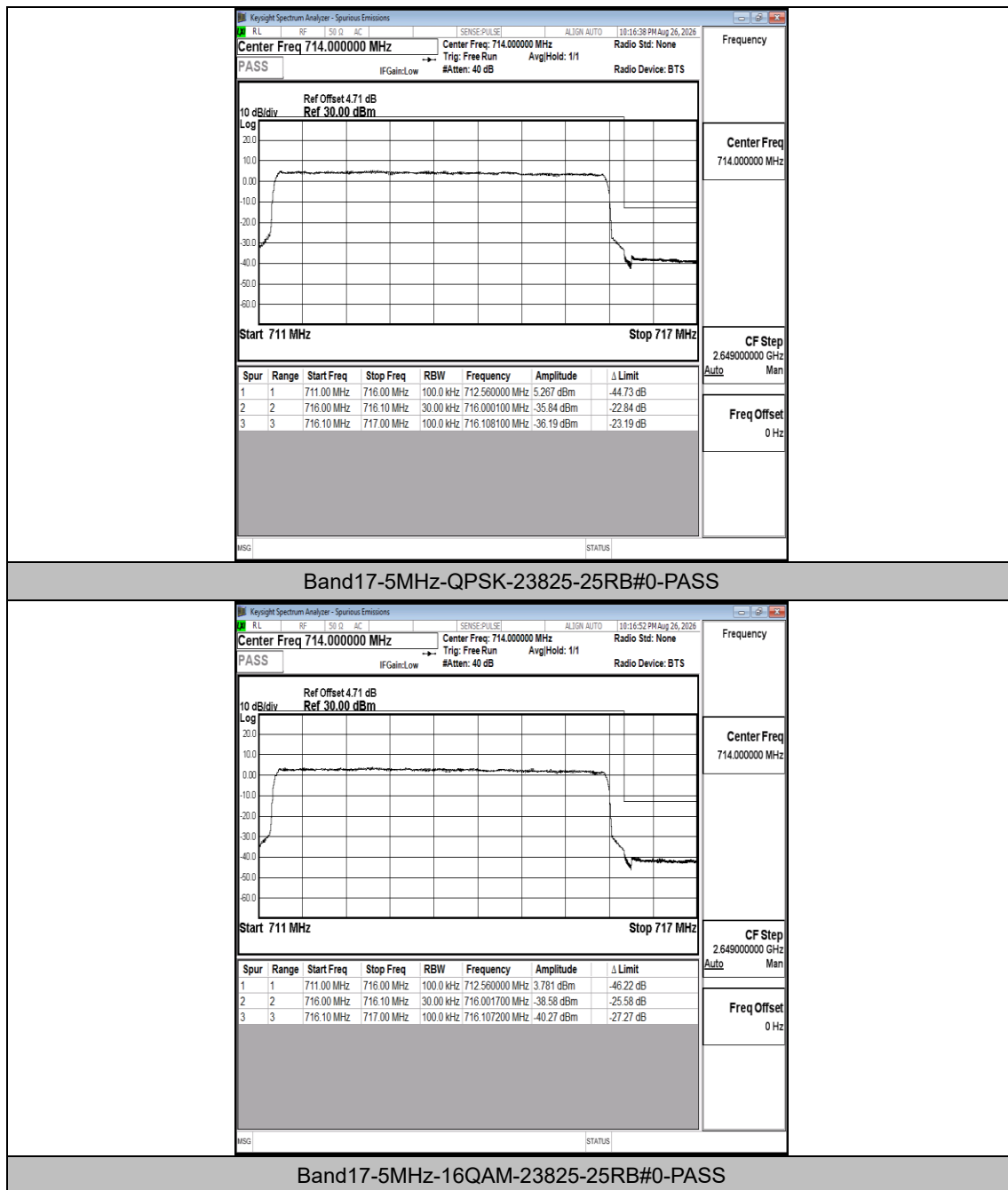
M.4 Band Edge

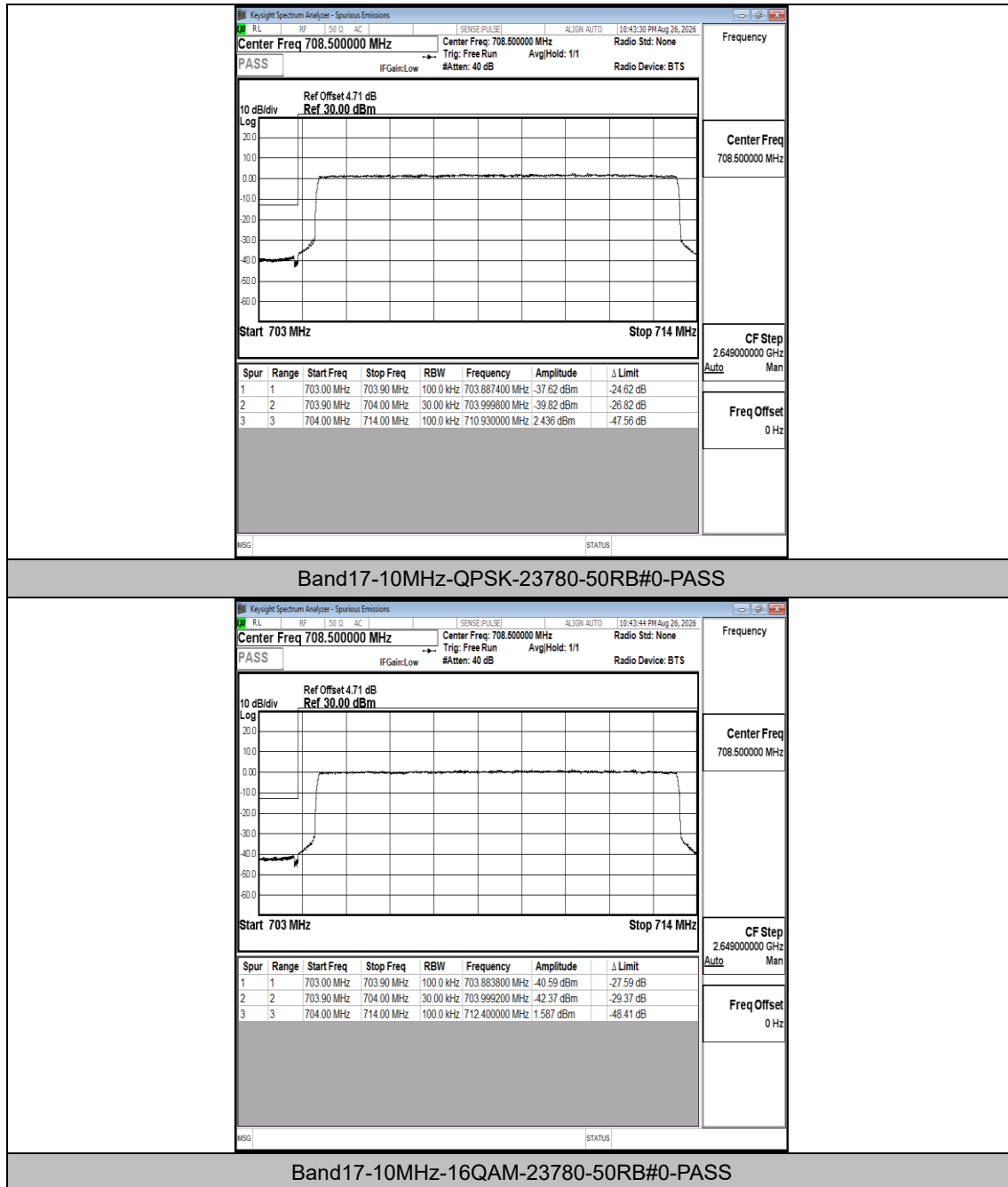
Test Result

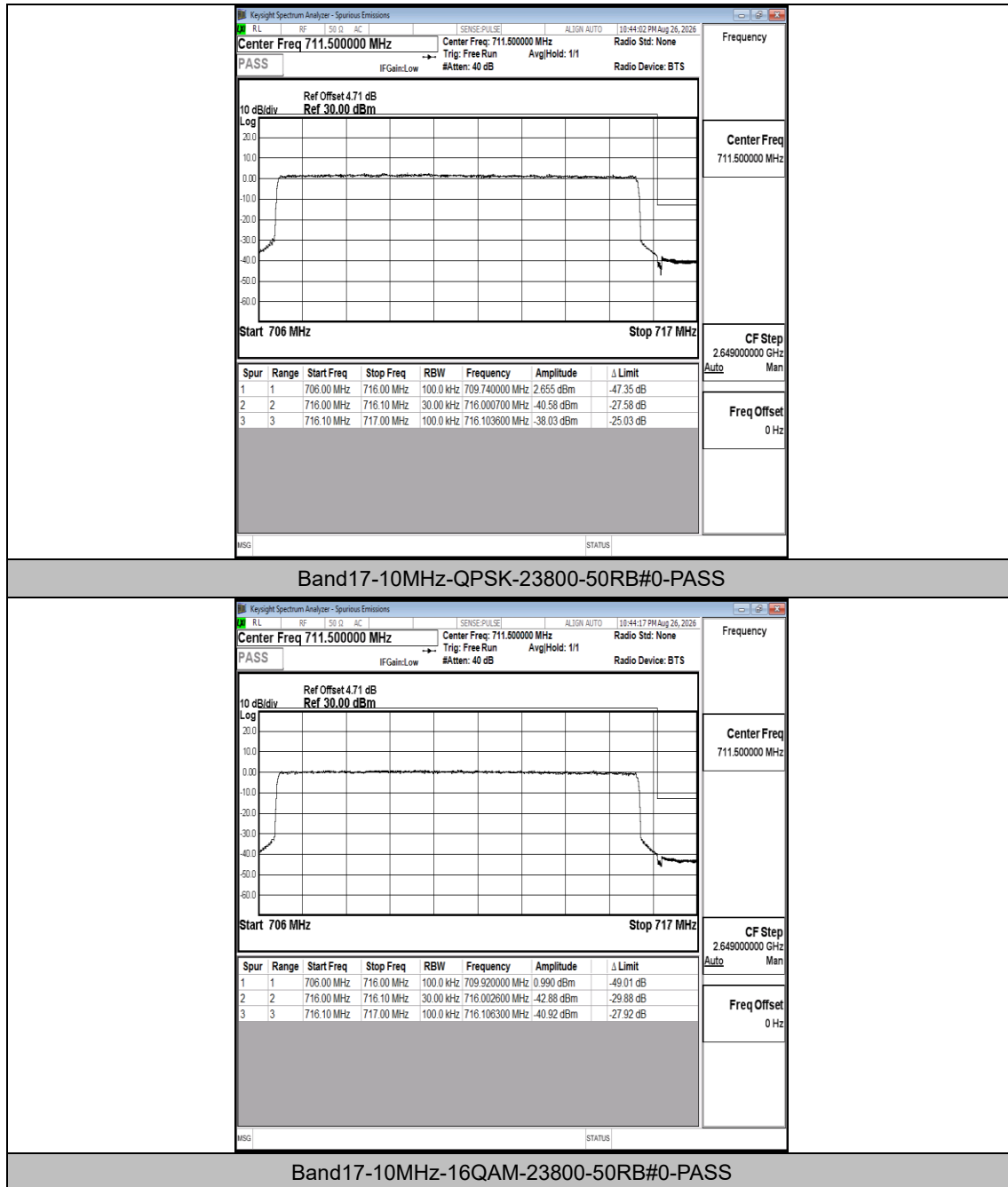
Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Margin (dB)	Verdict
Band17	5MHz	QPSK	23755	25RB#0	-32.96	19.96	PASS
Band17	5MHz	16QAM	23755	25RB#0	-36.73	23.73	PASS
Band17	5MHz	QPSK	23825	25RB#0	-35.84	22.84	PASS
Band17	5MHz	16QAM	23825	25RB#0	-38.58	25.58	PASS
Band17	10MHz	QPSK	23780	50RB#0	-37.62	24.62	PASS
Band17	10MHz	16QAM	23780	50RB#0	-40.59	27.59	PASS
Band17	10MHz	QPSK	23800	50RB#0	-38.03	25.03	PASS
Band17	10MHz	16QAM	23800	50RB#0	-40.92	27.92	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	-52.53	-33.0	PASS
Band17	5MHz	QPSK	23755	1RB#0	0.15~30	-62.24	-23.0	PASS
Band17	5MHz	QPSK	23755	1RB#0	30~1000	-39.99	-13.0	PASS
Band17	5MHz	QPSK	23755	1RB#0	1000~3000	-37.31	-13.0	PASS
Band17	5MHz	QPSK	23755	1RB#0	3000~10000	-39.81	-13.0	PASS
Band17	5MHz	16QAM	23755	1RB#0	0.009~0.15	-52.65	-33.0	PASS
Band17	5MHz	16QAM	23755	1RB#0	0.15~30	-62.50	-23.0	PASS
Band17	5MHz	16QAM	23755	1RB#0	30~1000	-41.43	-13.0	PASS
Band17	5MHz	16QAM	23755	1RB#0	1000~3000	-39.09	-13.0	PASS
Band17	5MHz	16QAM	23755	1RB#0	3000~10000	-39.67	-13.0	PASS
Band17	5MHz	QPSK	23790	1RB#0	0.009~0.15	-53.86	-33.0	PASS
Band17	5MHz	QPSK	23790	1RB#0	0.15~30	-64.29	-23.0	PASS
Band17	5MHz	QPSK	23790	1RB#0	30~1000	-50.82	-13.0	PASS
Band17	5MHz	QPSK	23790	1RB#0	1000~3000	-38.20	-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	-50.45	-33.0	PASS
Band17	5MHz	16QAM	23790	1RB#0	0.15~30	-65.85	-23.0	PASS
Band17	5MHz	16QAM	23790	1RB#0	30~1000	-57.30	-13.0	PASS
Band17	5MHz	16QAM	23790	1RB#0	1000~3000	-40.73	-13.0	PASS
Band17	5MHz	16QAM	23790	1RB#0	3000~10000	-39.98	-13.0	PASS
Band17	5MHz	QPSK	23825	1RB#0	0.009~0.15	-53.08	-33.0	PASS
Band17	5MHz	QPSK	23825	1RB#0	0.15~30	-62.41	-23.0	PASS
Band17	5MHz	QPSK	23825	1RB#0	30~1000	-42.14	-13.0	PASS
Band17	5MHz	QPSK	23825	1RB#0	1000~3000	-38.04	-13.0	PASS
Band17	5MHz	QPSK	23825	1RB#0	3000~10000	-39.82	-13.0	PASS
Band17	5MHz	16QAM	23825	1RB#0	0.009~0.15	-52.94	-33.0	PASS
Band17	5MHz	16QAM	23825	1RB#0	0.15~30	-63.32	-23.0	PASS
Band17	5MHz	16QAM	23825	1RB#0	30~1000	-40.02	-13.0	PASS
Band17	5MHz	16QAM	23825	1RB#0	1000~3000	-43.44	-13.0	PASS
Band17	5MHz	16QAM	23825	1RB#0	3000~10000	-39.13	-13.0	PASS
Band17	10MHz	QPSK	23780	1RB#0	0.009~0.15	-53.35	-33.0	PASS
Band17	10MHz	QPSK	23780	1RB#0	0.15~30	-63.46	-23.0	PASS
Band17	10MHz	QPSK	23780	1RB#0	30~1000	-45.04	-13.0	PASS
Band17	10MHz	QPSK	23780	1RB#0	1000~3000	-37.72	-13.0	PASS
Band17	10MHz	QPSK	23780	1RB#0	3000~10000	-40.03	-13.0	PASS

Band17	10MHz	16QAM	23780	1RB#0	0.009~0.15	-53.40	-33.0	PASS
Band17	10MHz	16QAM	23780	1RB#0	0.15~30	-62.10	-23.0	PASS
Band17	10MHz	16QAM	23780	1RB#0	30~1000	-39.29	-13.0	PASS
Band17	10MHz	16QAM	23780	1RB#0	1000~3000	-38.72	-13.0	PASS
Band17	10MHz	16QAM	23780	1RB#0	3000~10000	-40.09	-13.0	PASS
Band17	10MHz	QPSK	23790	1RB#0	0.009~0.15	-53.99	-33.0	PASS
Band17	10MHz	QPSK	23790	1RB#0	0.15~30	-62.35	-23.0	PASS
Band17	10MHz	QPSK	23790	1RB#0	30~1000	-42.47	-13.0	PASS
Band17	10MHz	QPSK	23790	1RB#0	1000~3000	-38.31	-13.0	PASS
Band17	10MHz	QPSK	23790	1RB#0	3000~10000	-39.67	-13.0	PASS
Band17	10MHz	16QAM	23790	1RB#0	0.009~0.15	-51.79	-33.0	PASS
Band17	10MHz	16QAM	23790	1RB#0	0.15~30	-65.59	-23.0	PASS
Band17	10MHz	16QAM	23790	1RB#0	30~1000	-46.37	-13.0	PASS
Band17	10MHz	16QAM	23790	1RB#0	1000~3000	-38.59	-13.0	PASS
Band17	10MHz	16QAM	23790	1RB#0	3000~10000	-40.05	-13.0	PASS
Band17	10MHz	QPSK	23800	1RB#0	0.009~0.15	-52.06	-33.0	PASS
Band17	10MHz	QPSK	23800	1RB#0	0.15~30	-63.14	-23.0	PASS
Band17	10MHz	QPSK	23800	1RB#0	30~1000	-40.74	-13.0	PASS
Band17	10MHz	QPSK	23800	1RB#0	1000~3000	-37.86	-13.0	PASS
Band17	10MHz	QPSK	23800	1RB#0	3000~10000	-39.83	-13.0	PASS
Band17	10MHz	16QAM	23800	1RB#0	0.009~0.15	-49.10	-33.0	PASS
Band17	10MHz	16QAM	23800	1RB#0	0.15~30	-63.25	-23.0	PASS
Band17	10MHz	16QAM	23800	1RB#0	30~1000	-40.87	-13.0	PASS
Band17	10MHz	16QAM	23800	1RB#0	1000~3000	-39.47	-13.0	PASS
Band17	10MHz	16QAM	23800	1RB#0	3000~10000	-39.90	-13.0	PASS

Test Graphs

