

Appendix K: Test Data for E-UTRA Band 7

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

K.1 Conducted Output Power Data

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Power(dBm)	Verdict
Band7	5MHz	QPSK	20775	1RB#0	24.56	PASS
Band7	5MHz	QPSK	20775	1RB#12	24.50	PASS
Band7	5MHz	QPSK	20775	1RB#24	24.48	PASS
Band7	5MHz	QPSK	20775	12RB#0	24.11	PASS
Band7	5MHz	QPSK	20775	12RB#6	24.07	PASS
Band7	5MHz	QPSK	20775	12RB#13	24.20	PASS
Band7	5MHz	QPSK	20775	25RB#0	24.11	PASS
Band7	5MHz	16QAM	20775	1RB#0	23.92	PASS
Band7	5MHz	16QAM	20775	1RB#12	24.53	PASS
Band7	5MHz	16QAM	20775	1RB#24	24.47	PASS
Band7	5MHz	16QAM	20775	12RB#0	22.67	PASS
Band7	5MHz	16QAM	20775	12RB#6	22.64	PASS
Band7	5MHz	16QAM	20775	12RB#13	22.91	PASS
Band7	5MHz	16QAM	20775	25RB#0	22.71	PASS
Band7	5MHz	QPSK	21100	1RB#0	24.97	PASS
Band7	5MHz	QPSK	21100	1RB#12	24.95	PASS
Band7	5MHz	QPSK	21100	1RB#24	24.92	PASS
Band7	5MHz	QPSK	21100	12RB#0	24.41	PASS
Band7	5MHz	QPSK	21100	12RB#6	24.28	PASS
Band7	5MHz	QPSK	21100	12RB#13	24.28	PASS
Band7	5MHz	QPSK	21100	25RB#0	24.40	PASS
Band7	5MHz	16QAM	21100	1RB#0	24.41	PASS
Band7	5MHz	16QAM	21100	1RB#12	24.40	PASS
Band7	5MHz	16QAM	21100	1RB#24	24.06	PASS
Band7	5MHz	16QAM	21100	12RB#0	22.98	PASS
Band7	5MHz	16QAM	21100	12RB#6	22.88	PASS
Band7	5MHz	16QAM	21100	12RB#13	22.84	PASS
Band7	5MHz	16QAM	21100	25RB#0	22.96	PASS
Band7	5MHz	QPSK	21425	1RB#0	24.49	PASS
Band7	5MHz	QPSK	21425	1RB#12	24.34	PASS
Band7	5MHz	QPSK	21425	1RB#24	24.61	PASS
Band7	5MHz	QPSK	21425	12RB#0	24.04	PASS
Band7	5MHz	QPSK	21425	12RB#6	24.03	PASS
Band7	5MHz	QPSK	21425	12RB#13	24.05	PASS
Band7	5MHz	QPSK	21425	25RB#0	23.93	PASS
Band7	5MHz	16QAM	21425	1RB#0	23.59	PASS

Band7	5MHz	16QAM	21425	1RB#12	23.88	PASS
Band7	5MHz	16QAM	21425	1RB#24	23.61	PASS
Band7	5MHz	16QAM	21425	12RB#0	22.57	PASS
Band7	5MHz	16QAM	21425	12RB#6	22.48	PASS
Band7	5MHz	16QAM	21425	12RB#13	22.66	PASS
Band7	5MHz	16QAM	21425	25RB#0	22.61	PASS
Band7	10MHz	QPSK	20800	1RB#0	24.42	PASS
Band7	10MHz	QPSK	20800	1RB#24	24.71	PASS
Band7	10MHz	QPSK	20800	1RB#49	24.77	PASS
Band7	10MHz	QPSK	20800	25RB#0	24.06	PASS
Band7	10MHz	QPSK	20800	25RB#12	24.25	PASS
Band7	10MHz	QPSK	20800	25RB#25	24.26	PASS
Band7	10MHz	QPSK	20800	50RB#0	24.19	PASS
Band7	10MHz	16QAM	20800	1RB#0	23.61	PASS
Band7	10MHz	16QAM	20800	1RB#24	24.70	PASS
Band7	10MHz	16QAM	20800	1RB#49	23.99	PASS
Band7	10MHz	16QAM	20800	25RB#0	22.85	PASS
Band7	10MHz	16QAM	20800	25RB#12	22.89	PASS
Band7	10MHz	16QAM	20800	25RB#25	22.96	PASS
Band7	10MHz	16QAM	20800	50RB#0	22.90	PASS
Band7	10MHz	QPSK	21100	1RB#0	24.99	PASS
Band7	10MHz	QPSK	21100	1RB#24	24.89	PASS
Band7	10MHz	QPSK	21100	1RB#49	24.77	PASS
Band7	10MHz	QPSK	21100	25RB#0	24.43	PASS
Band7	10MHz	QPSK	21100	25RB#12	24.37	PASS
Band7	10MHz	QPSK	21100	25RB#25	24.33	PASS
Band7	10MHz	QPSK	21100	50RB#0	24.37	PASS
Band7	10MHz	16QAM	21100	1RB#0	24.42	PASS
Band7	10MHz	16QAM	21100	1RB#24	24.45	PASS
Band7	10MHz	16QAM	21100	1RB#49	24.19	PASS
Band7	10MHz	16QAM	21100	25RB#0	23.07	PASS
Band7	10MHz	16QAM	21100	25RB#12	22.93	PASS
Band7	10MHz	16QAM	21100	25RB#25	22.97	PASS
Band7	10MHz	16QAM	21100	50RB#0	22.93	PASS
Band7	10MHz	QPSK	21400	1RB#0	24.43	PASS
Band7	10MHz	QPSK	21400	1RB#24	24.70	PASS
Band7	10MHz	QPSK	21400	1RB#49	24.50	PASS
Band7	10MHz	QPSK	21400	25RB#0	23.93	PASS
Band7	10MHz	QPSK	21400	25RB#12	24.06	PASS
Band7	10MHz	QPSK	21400	25RB#25	24.06	PASS
Band7	10MHz	QPSK	21400	50RB#0	23.96	PASS

Band7	10MHz	16QAM	21400	1RB#0	23.87	PASS
Band7	10MHz	16QAM	21400	1RB#24	25.05	PASS
Band7	10MHz	16QAM	21400	1RB#49	23.94	PASS
Band7	10MHz	16QAM	21400	25RB#0	22.55	PASS
Band7	10MHz	16QAM	21400	25RB#12	22.60	PASS
Band7	10MHz	16QAM	21400	25RB#25	22.54	PASS
Band7	10MHz	16QAM	21400	50RB#0	22.73	PASS
Band7	15MHz	QPSK	20825	1RB#0	24.43	PASS
Band7	15MHz	QPSK	20825	1RB#38	24.85	PASS
Band7	15MHz	QPSK	20825	1RB#74	24.78	PASS
Band7	15MHz	QPSK	20825	38RB#0	24.06	PASS
Band7	15MHz	QPSK	20825	38RB#18	24.21	PASS
Band7	15MHz	QPSK	20825	38RB#37	24.31	PASS
Band7	15MHz	QPSK	20825	75RB#0	24.22	PASS
Band7	15MHz	16QAM	20825	1RB#0	24.30	PASS
Band7	15MHz	16QAM	20825	1RB#38	25.51	PASS
Band7	15MHz	16QAM	20825	1RB#74	24.58	PASS
Band7	15MHz	16QAM	20825	38RB#0	22.74	PASS
Band7	15MHz	16QAM	20825	38RB#18	22.85	PASS
Band7	15MHz	16QAM	20825	38RB#37	23.07	PASS
Band7	15MHz	16QAM	20825	75RB#0	22.87	PASS
Band7	15MHz	QPSK	21100	1RB#0	24.93	PASS
Band7	15MHz	QPSK	21100	1RB#38	24.82	PASS
Band7	15MHz	QPSK	21100	1RB#74	24.71	PASS
Band7	15MHz	QPSK	21100	38RB#0	24.39	PASS
Band7	15MHz	QPSK	21100	38RB#18	24.35	PASS
Band7	15MHz	QPSK	21100	38RB#37	24.29	PASS
Band7	15MHz	QPSK	21100	75RB#0	24.33	PASS
Band7	15MHz	16QAM	21100	1RB#0	24.47	PASS
Band7	15MHz	16QAM	21100	1RB#38	24.55	PASS
Band7	15MHz	16QAM	21100	1RB#74	24.19	PASS
Band7	15MHz	16QAM	21100	38RB#0	23.06	PASS
Band7	15MHz	16QAM	21100	38RB#18	23.01	PASS
Band7	15MHz	16QAM	21100	38RB#37	22.89	PASS
Band7	15MHz	16QAM	21100	75RB#0	22.96	PASS
Band7	15MHz	QPSK	21375	1RB#0	24.38	PASS
Band7	15MHz	QPSK	21375	1RB#38	24.60	PASS
Band7	15MHz	QPSK	21375	1RB#74	24.43	PASS
Band7	15MHz	QPSK	21375	38RB#0	23.92	PASS
Band7	15MHz	QPSK	21375	38RB#18	24.08	PASS
Band7	15MHz	QPSK	21375	38RB#37	24.00	PASS

Band7	15MHz	QPSK	21375	75RB#0	24.06	PASS
Band7	15MHz	16QAM	21375	1RB#0	23.82	PASS
Band7	15MHz	16QAM	21375	1RB#38	25.09	PASS
Band7	15MHz	16QAM	21375	1RB#74	24.08	PASS
Band7	15MHz	16QAM	21375	38RB#0	22.59	PASS
Band7	15MHz	16QAM	21375	38RB#18	22.66	PASS
Band7	15MHz	16QAM	21375	38RB#37	22.72	PASS
Band7	15MHz	16QAM	21375	75RB#0	22.59	PASS
Band7	20MHz	QPSK	20850	1RB#0	24.56	PASS
Band7	20MHz	QPSK	20850	1RB#49	25.15	PASS
Band7	20MHz	QPSK	20850	1RB#99	25.11	PASS
Band7	20MHz	QPSK	20850	50RB#0	24.14	PASS
Band7	20MHz	QPSK	20850	50RB#25	24.32	PASS
Band7	20MHz	QPSK	20850	50RB#50	24.50	PASS
Band7	20MHz	QPSK	20850	100RB#0	24.32	PASS
Band7	20MHz	16QAM	20850	1RB#0	24.41	PASS
Band7	20MHz	16QAM	20850	1RB#49	25.01	PASS
Band7	20MHz	16QAM	20850	1RB#99	24.92	PASS
Band7	20MHz	16QAM	20850	50RB#0	22.86	PASS
Band7	20MHz	16QAM	20850	50RB#25	22.96	PASS
Band7	20MHz	16QAM	20850	50RB#50	23.12	PASS
Band7	20MHz	16QAM	20850	100RB#0	22.98	PASS
Band7	20MHz	QPSK	21100	1RB#0	24.83	PASS
Band7	20MHz	QPSK	21100	1RB#49	24.84	PASS
Band7	20MHz	QPSK	21100	1RB#99	24.84	PASS
Band7	20MHz	QPSK	21100	50RB#0	24.48	PASS
Band7	20MHz	QPSK	21100	50RB#25	24.39	PASS
Band7	20MHz	QPSK	21100	50RB#50	24.30	PASS
Band7	20MHz	QPSK	21100	100RB#0	24.36	PASS
Band7	20MHz	16QAM	21100	1RB#0	24.47	PASS
Band7	20MHz	16QAM	21100	1RB#49	24.39	PASS
Band7	20MHz	16QAM	21100	1RB#99	24.21	PASS
Band7	20MHz	16QAM	21100	50RB#0	23.16	PASS
Band7	20MHz	16QAM	21100	50RB#25	23.00	PASS
Band7	20MHz	16QAM	21100	50RB#50	23.06	PASS
Band7	20MHz	16QAM	21100	100RB#0	22.89	PASS
Band7	20MHz	QPSK	21350	1RB#0	24.49	PASS
Band7	20MHz	QPSK	21350	1RB#49	24.54	PASS
Band7	20MHz	QPSK	21350	1RB#99	24.63	PASS
Band7	20MHz	QPSK	21350	50RB#0	23.93	PASS
Band7	20MHz	QPSK	21350	50RB#25	24.03	PASS

Band7	20MHz	QPSK	21350	50RB#50	24.14	PASS
Band7	20MHz	QPSK	21350	100RB#0	24.09	PASS
Band7	20MHz	16QAM	21350	1RB#0	23.64	PASS
Band7	20MHz	16QAM	21350	1RB#49	24.23	PASS
Band7	20MHz	16QAM	21350	1RB#99	23.69	PASS
Band7	20MHz	16QAM	21350	50RB#0	22.80	PASS
Band7	20MHz	16QAM	21350	50RB#25	22.59	PASS
Band7	20MHz	16QAM	21350	50RB#50	22.74	PASS
Band7	20MHz	16QAM	21350	100RB#0	22.66	PASS

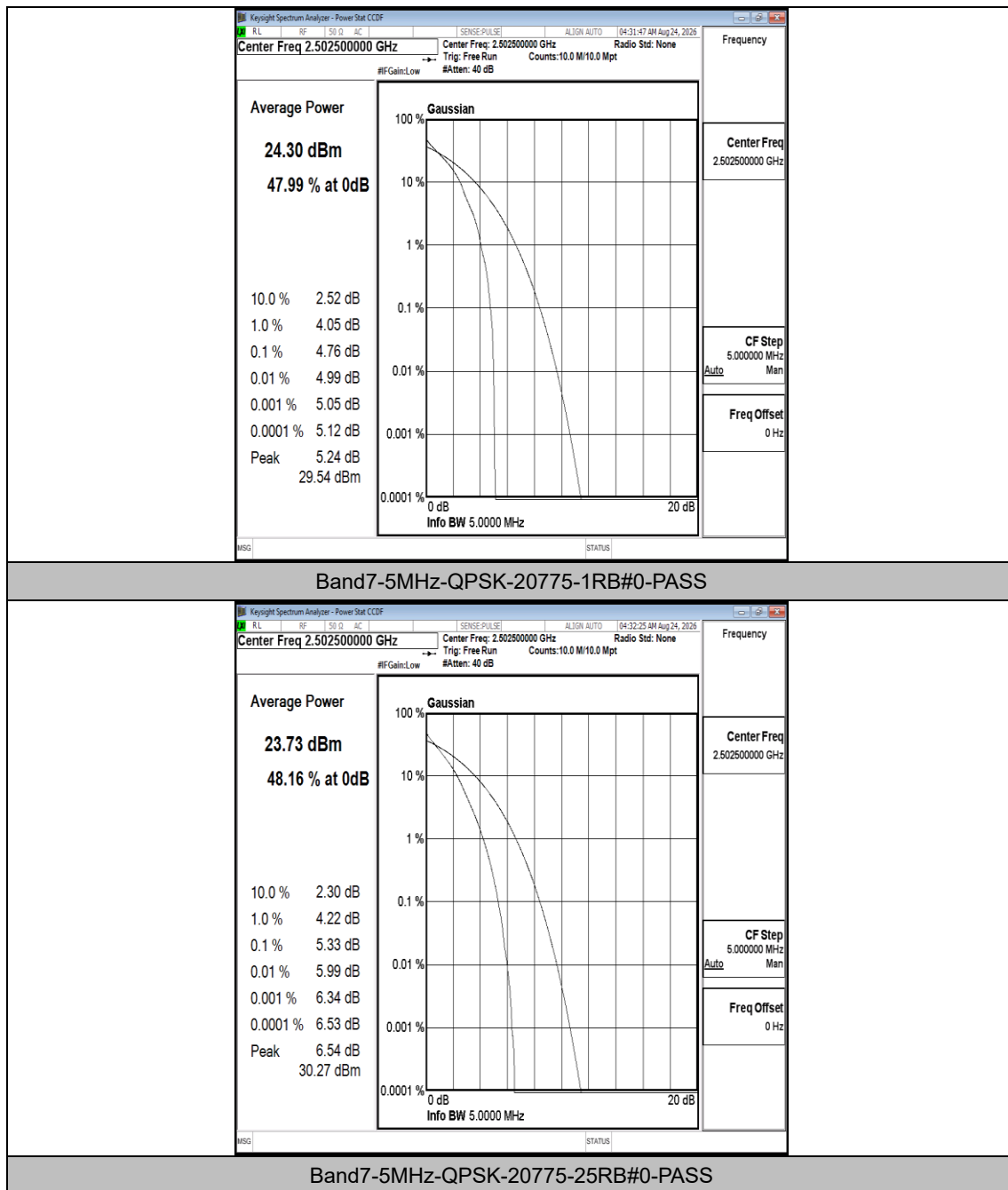
K.2 Peak-to-Average Ratio(CCDF)

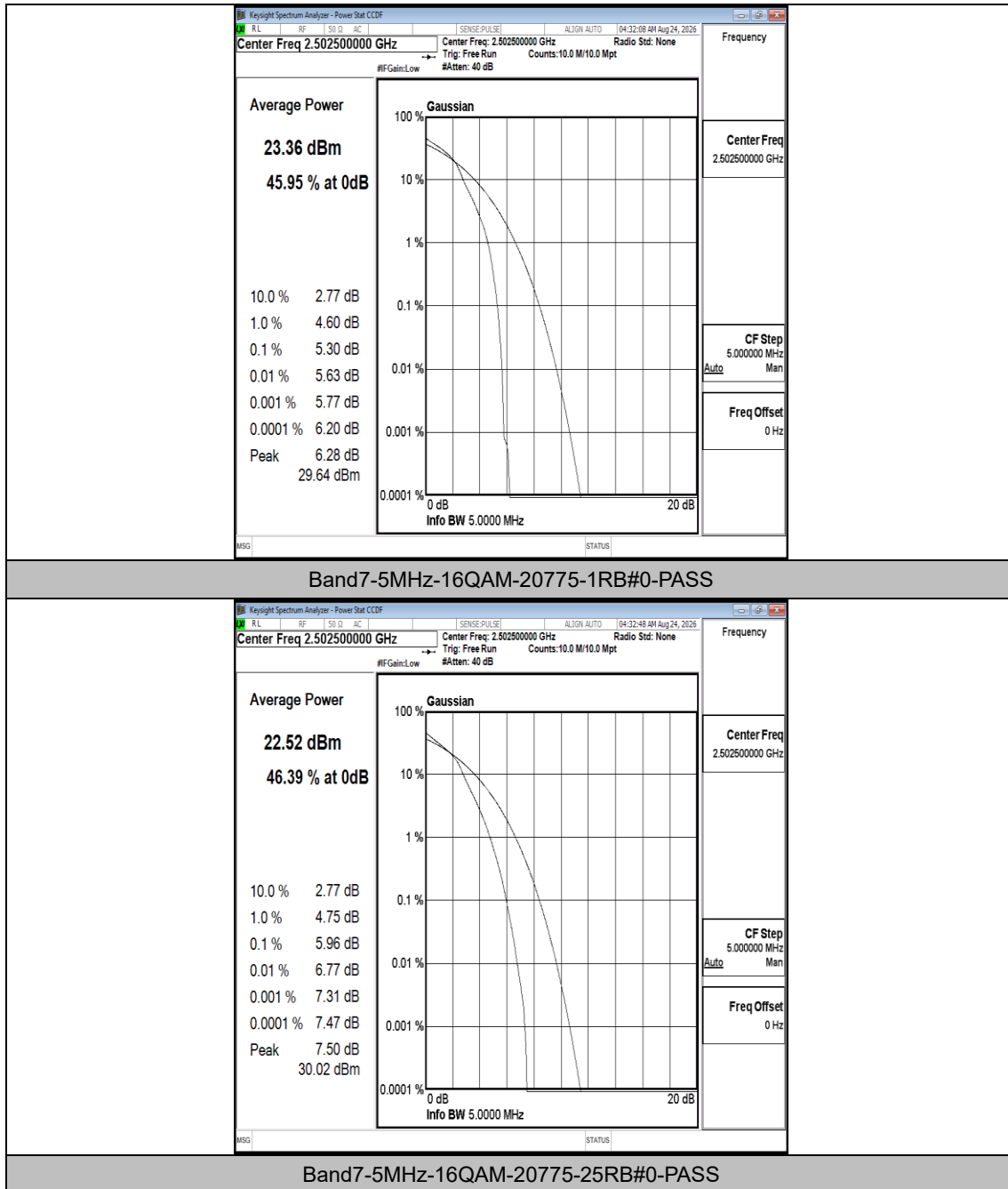
Test Result

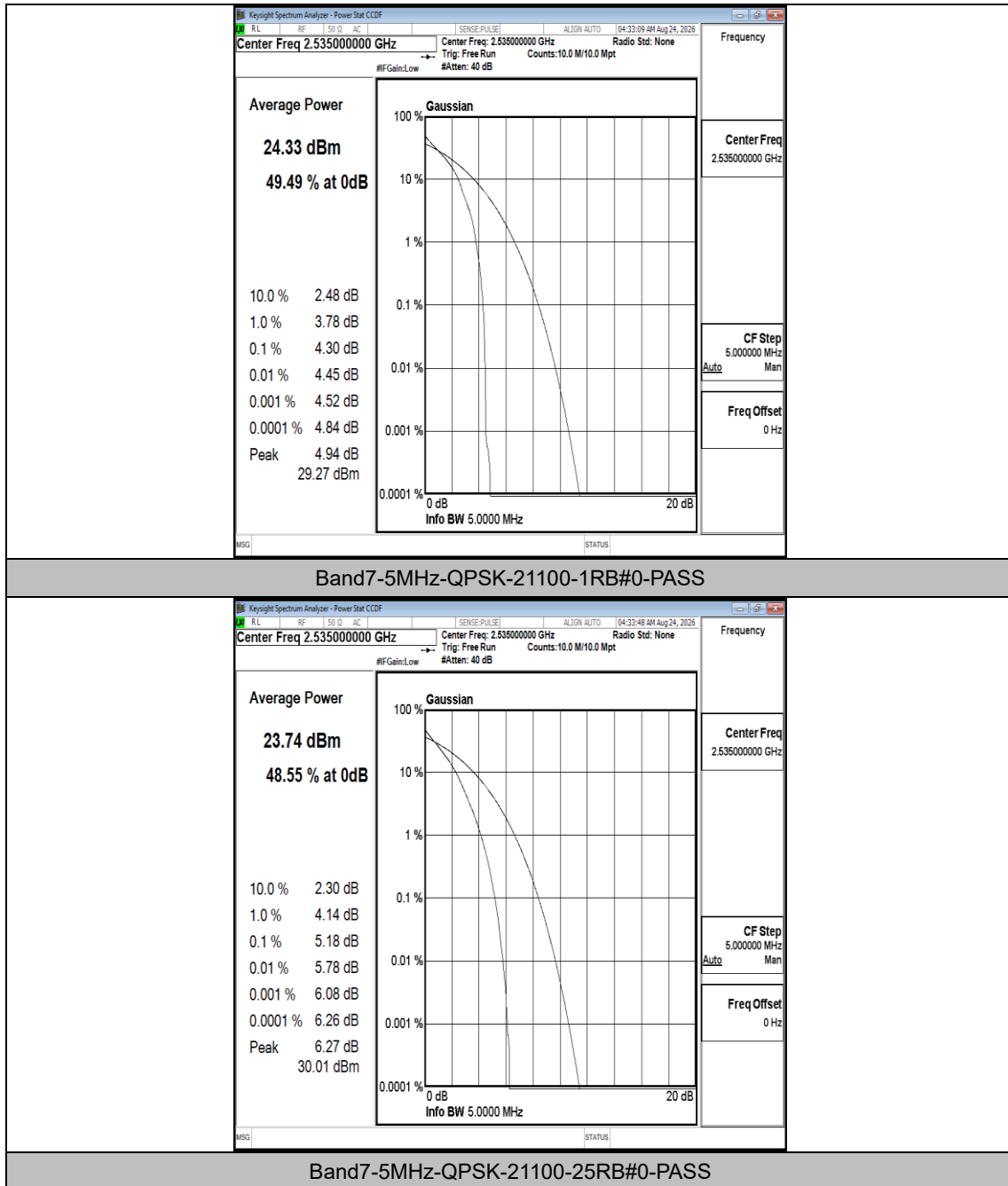
Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band7	5MHz	QPSK	20775	1RB#0	4.76	13	PASS
Band7	5MHz	QPSK	20775	25RB#0	5.33	13	PASS
Band7	5MHz	16QAM	20775	1RB#0	5.30	13	PASS
Band7	5MHz	16QAM	20775	25RB#0	5.96	13	PASS
Band7	5MHz	QPSK	21100	1RB#0	4.30	13	PASS
Band7	5MHz	QPSK	21100	25RB#0	5.18	13	PASS
Band7	5MHz	16QAM	21100	1RB#0	4.97	13	PASS
Band7	5MHz	16QAM	21100	25RB#0	5.87	13	PASS
Band7	5MHz	QPSK	21425	1RB#0	4.45	13	PASS
Band7	5MHz	QPSK	21425	25RB#0	5.08	13	PASS
Band7	5MHz	16QAM	21425	1RB#0	5.03	13	PASS
Band7	5MHz	16QAM	21425	25RB#0	5.80	13	PASS
Band7	10MHz	QPSK	20800	1RB#0	4.62	13	PASS
Band7	10MHz	QPSK	20800	50RB#0	5.37	13	PASS
Band7	10MHz	16QAM	20800	1RB#0	5.23	13	PASS
Band7	10MHz	16QAM	20800	50RB#0	6.02	13	PASS
Band7	10MHz	QPSK	21100	1RB#0	4.13	13	PASS
Band7	10MHz	QPSK	21100	50RB#0	5.17	13	PASS
Band7	10MHz	16QAM	21100	1RB#0	4.75	13	PASS
Band7	10MHz	16QAM	21100	50RB#0	5.91	13	PASS
Band7	10MHz	QPSK	21400	1RB#0	4.65	13	PASS
Band7	10MHz	QPSK	21400	50RB#0	5.14	13	PASS
Band7	10MHz	16QAM	21400	1RB#0	5.25	13	PASS
Band7	10MHz	16QAM	21400	50RB#0	5.87	13	PASS
Band7	15MHz	QPSK	20825	1RB#0	4.64	13	PASS
Band7	15MHz	QPSK	20825	75RB#0	5.69	13	PASS
Band7	15MHz	16QAM	20825	1RB#0	5.27	13	PASS
Band7	15MHz	16QAM	20825	75RB#0	6.13	13	PASS
Band7	15MHz	QPSK	21100	1RB#0	4.15	13	PASS
Band7	15MHz	QPSK	21100	75RB#0	5.40	13	PASS
Band7	15MHz	16QAM	21100	1RB#0	4.71	13	PASS
Band7	15MHz	16QAM	21100	75RB#0	6.00	13	PASS
Band7	15MHz	QPSK	21375	1RB#0	4.93	13	PASS
Band7	15MHz	QPSK	21375	75RB#0	5.44	13	PASS
Band7	15MHz	16QAM	21375	1RB#0	5.50	13	PASS
Band7	15MHz	16QAM	21375	75RB#0	6.01	13	PASS

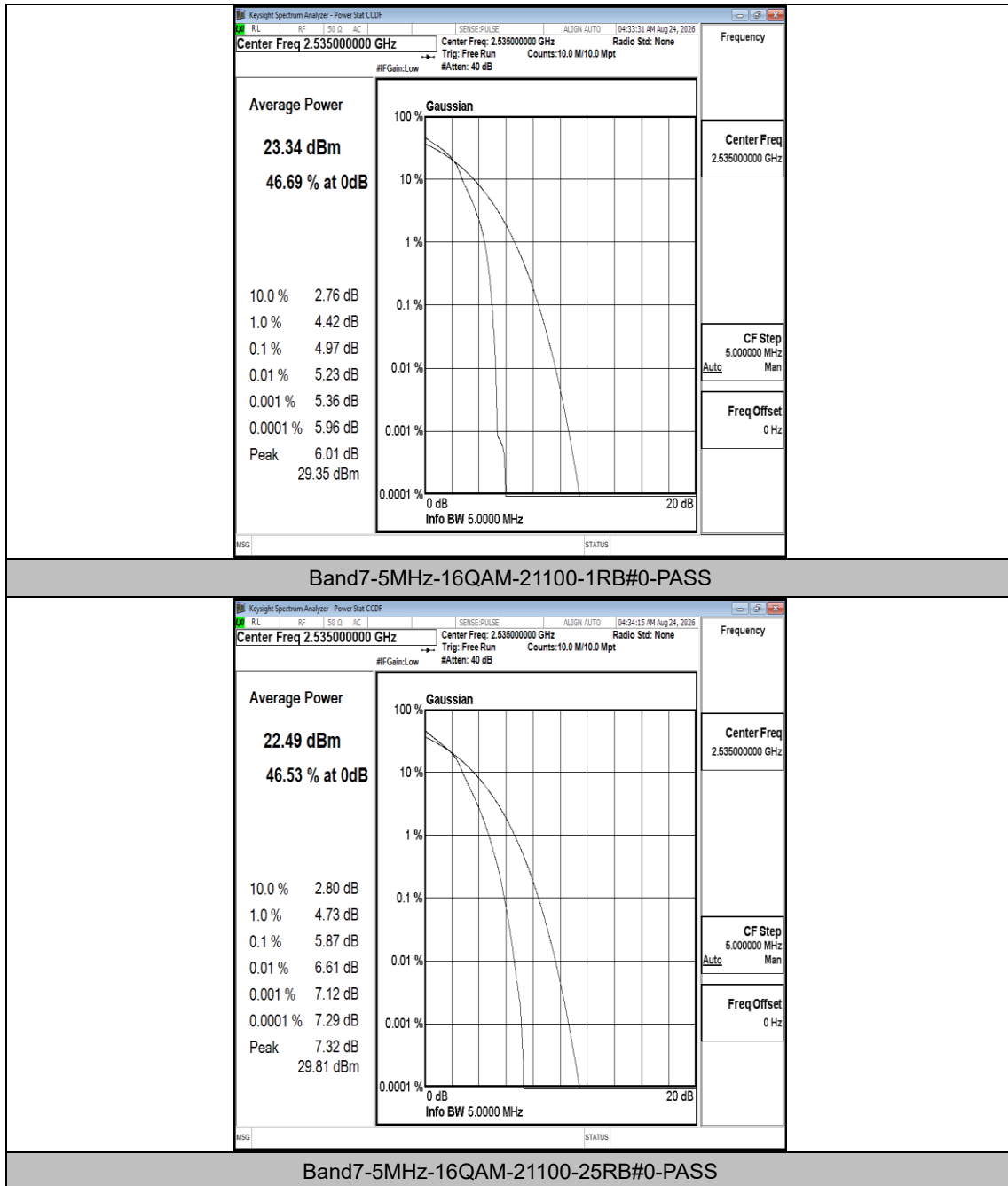
Band7	20MHz	QPSK	20850	1RB#0	4.58	13	PASS
Band7	20MHz	QPSK	20850	100RB#0	5.37	13	PASS
Band7	20MHz	16QAM	20850	1RB#0	4.98	13	PASS
Band7	20MHz	16QAM	20850	100RB#0	6.08	13	PASS
Band7	20MHz	QPSK	21100	1RB#0	4.04	13	PASS
Band7	20MHz	QPSK	21100	100RB#0	5.19	13	PASS
Band7	20MHz	16QAM	21100	1RB#0	4.51	13	PASS
Band7	20MHz	16QAM	21100	100RB#0	5.95	13	PASS
Band7	20MHz	QPSK	21350	1RB#0	4.85	13	PASS
Band7	20MHz	QPSK	21350	100RB#0	5.22	13	PASS
Band7	20MHz	16QAM	21350	1RB#0	5.34	13	PASS
Band7	20MHz	16QAM	21350	100RB#0	5.97	13	PASS

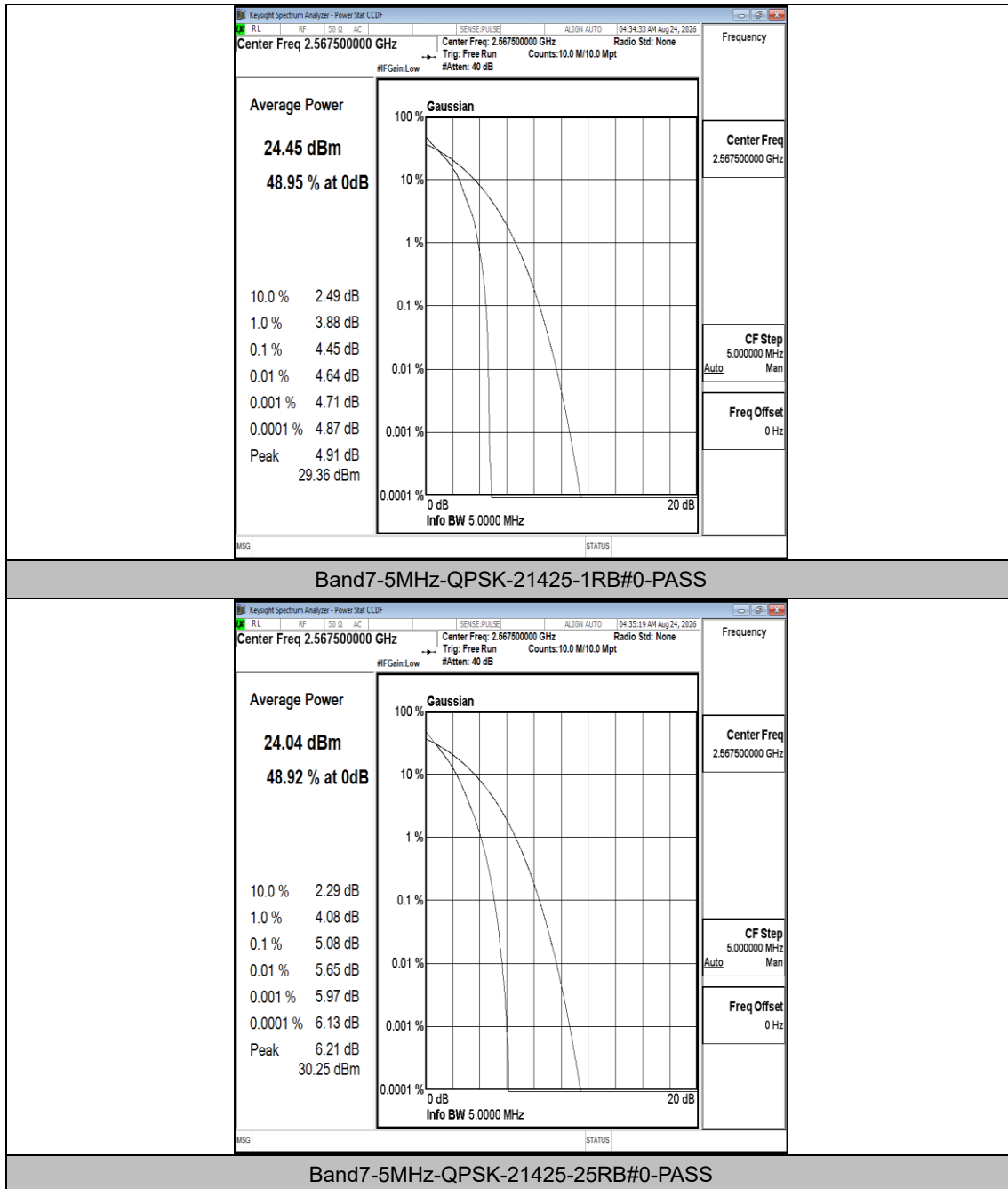
Test Graphs

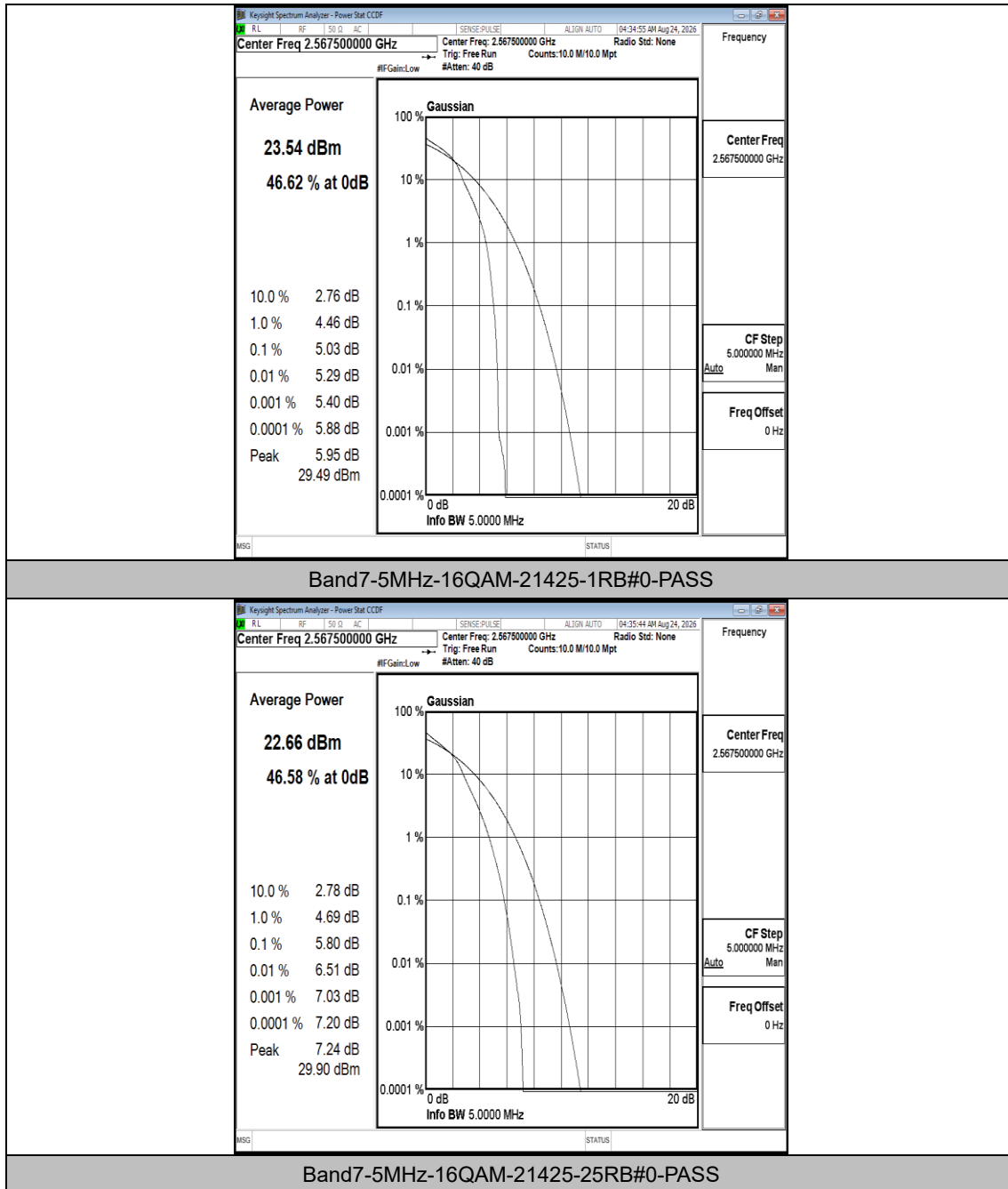


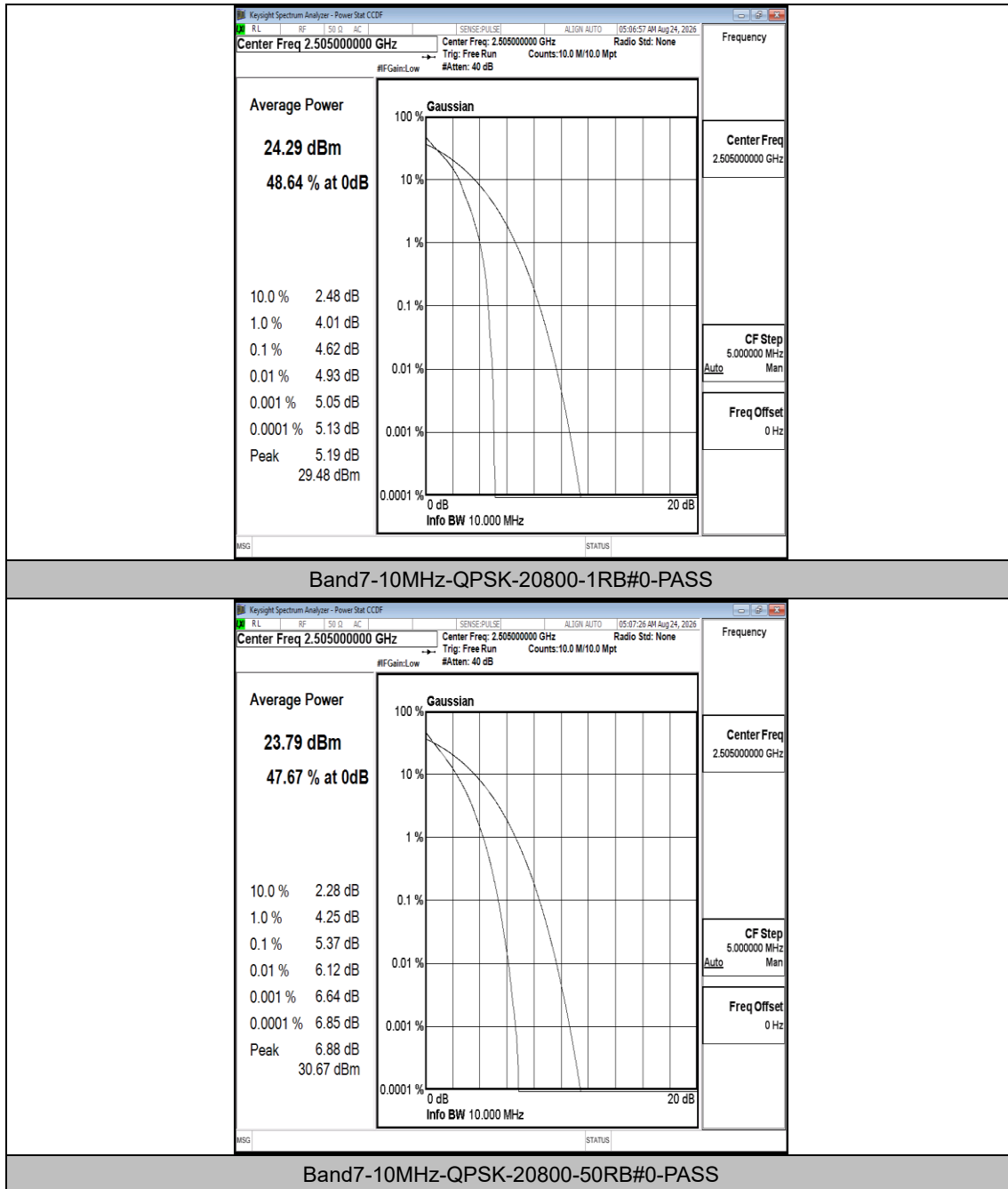


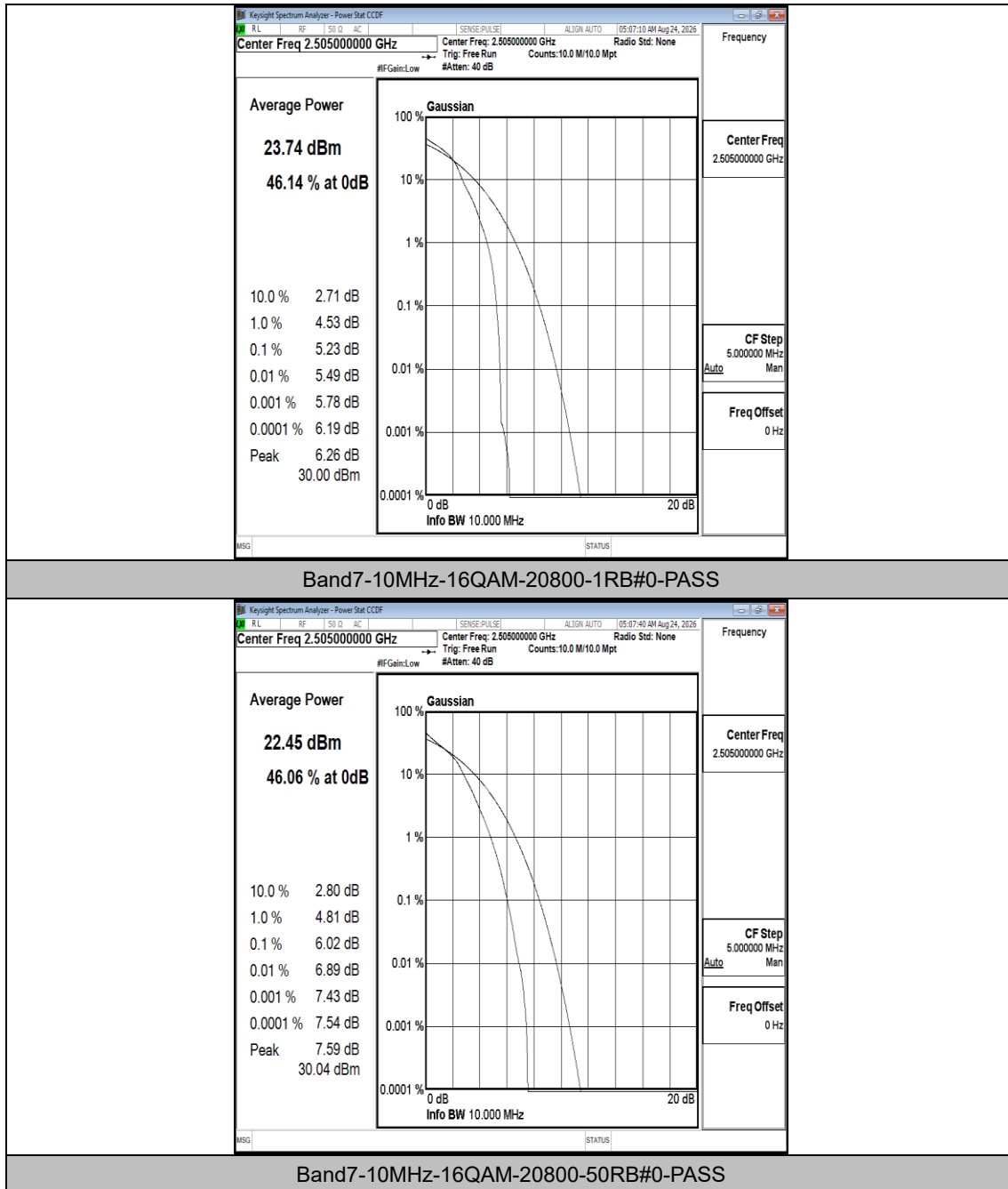


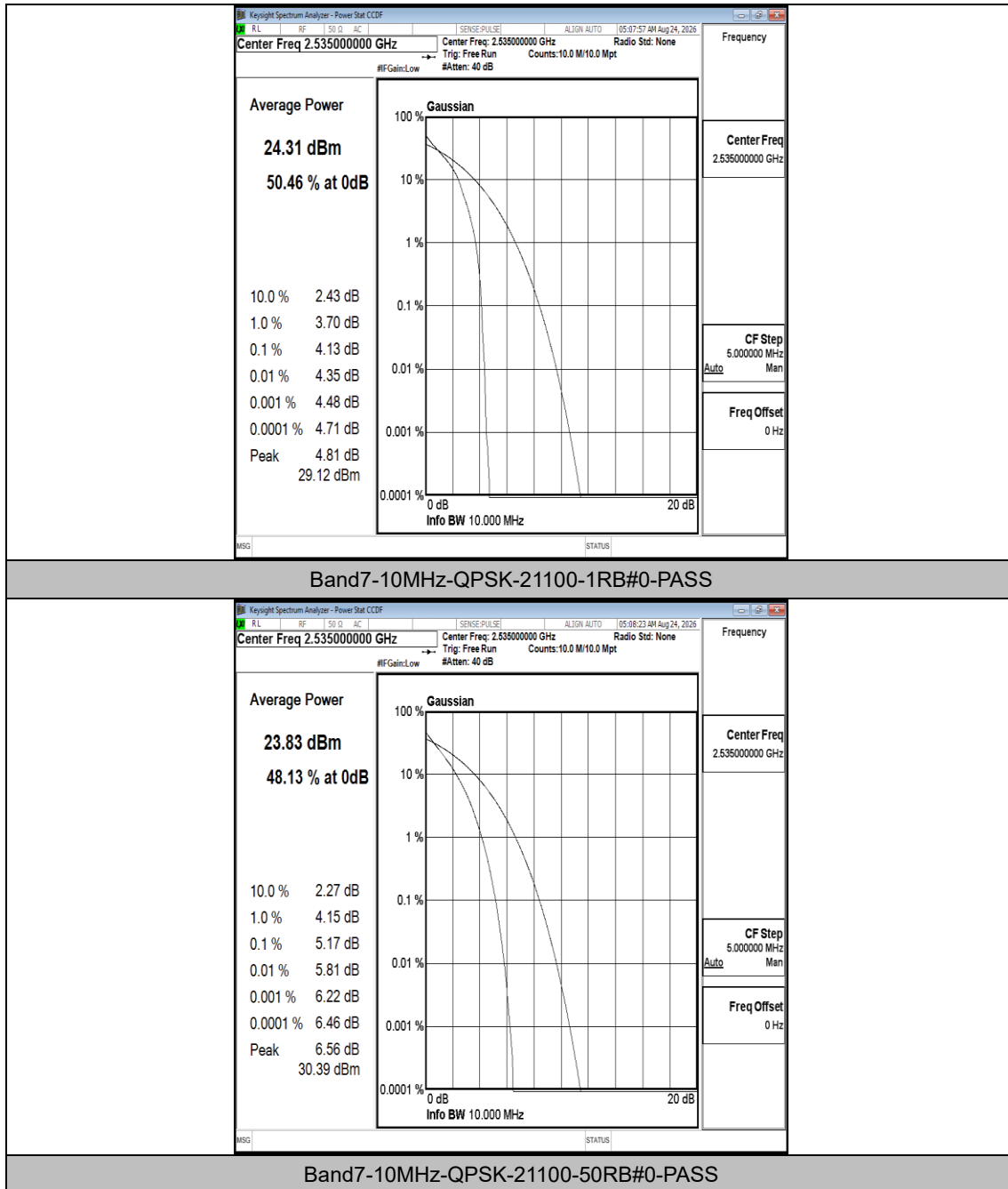


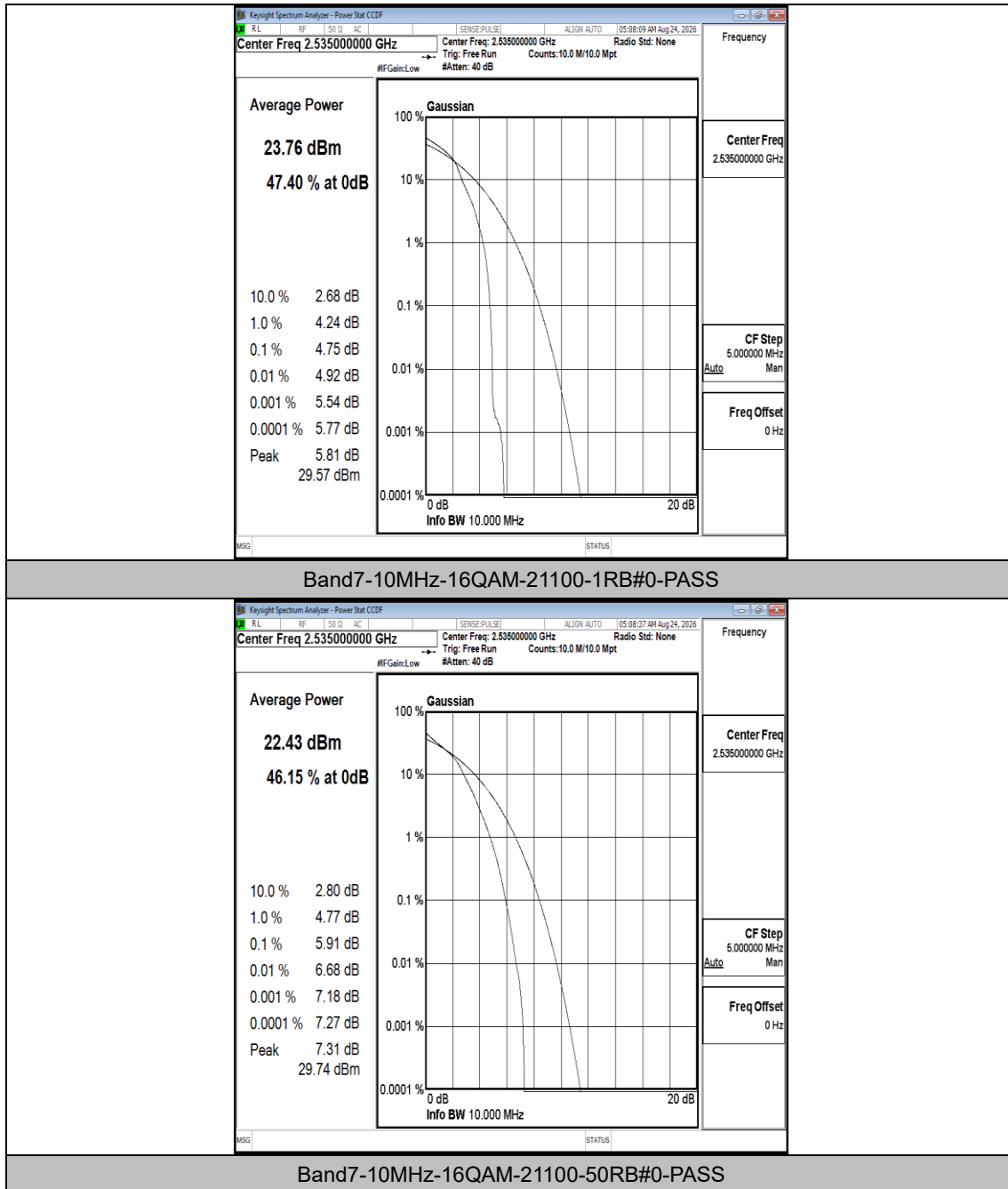


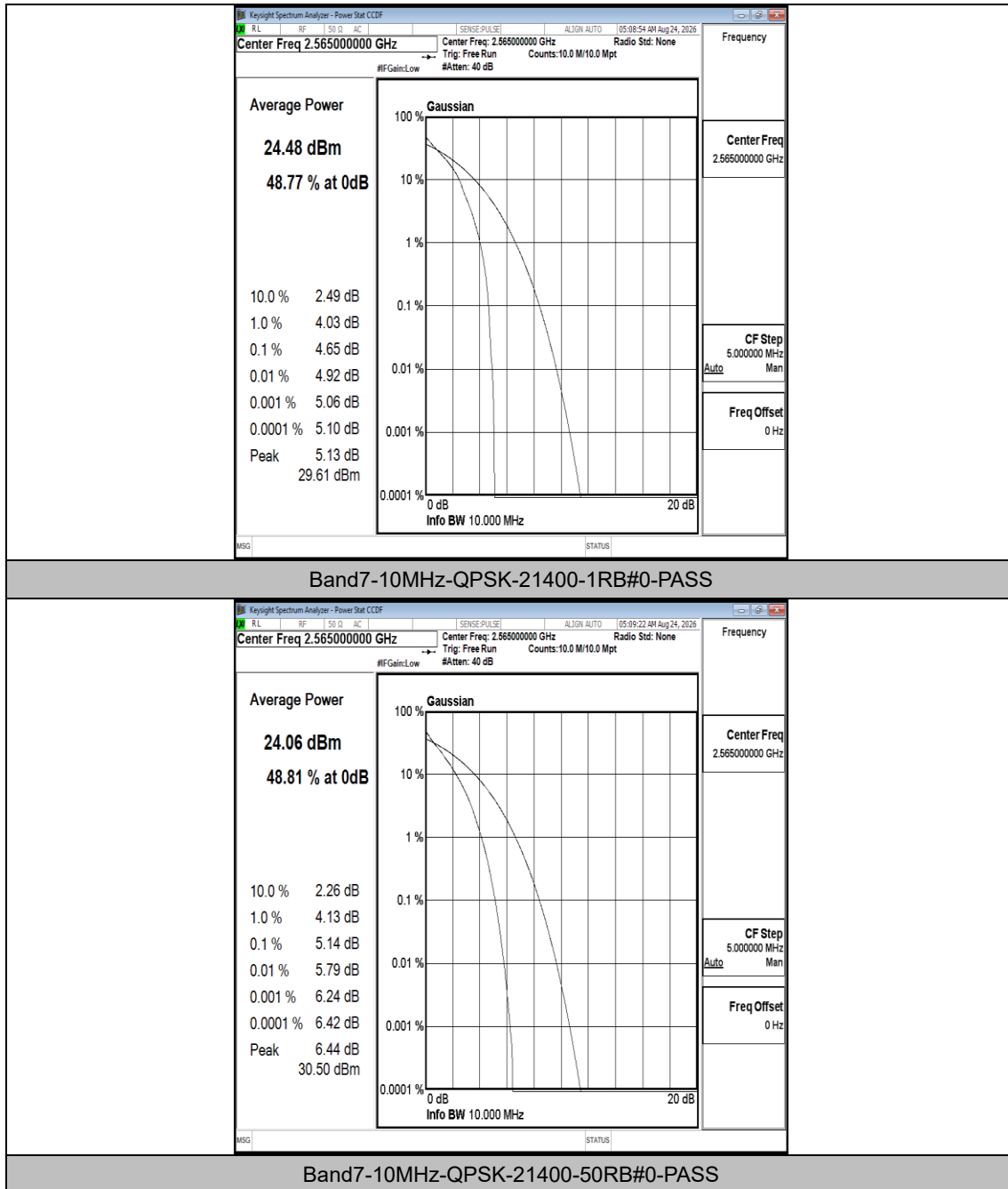


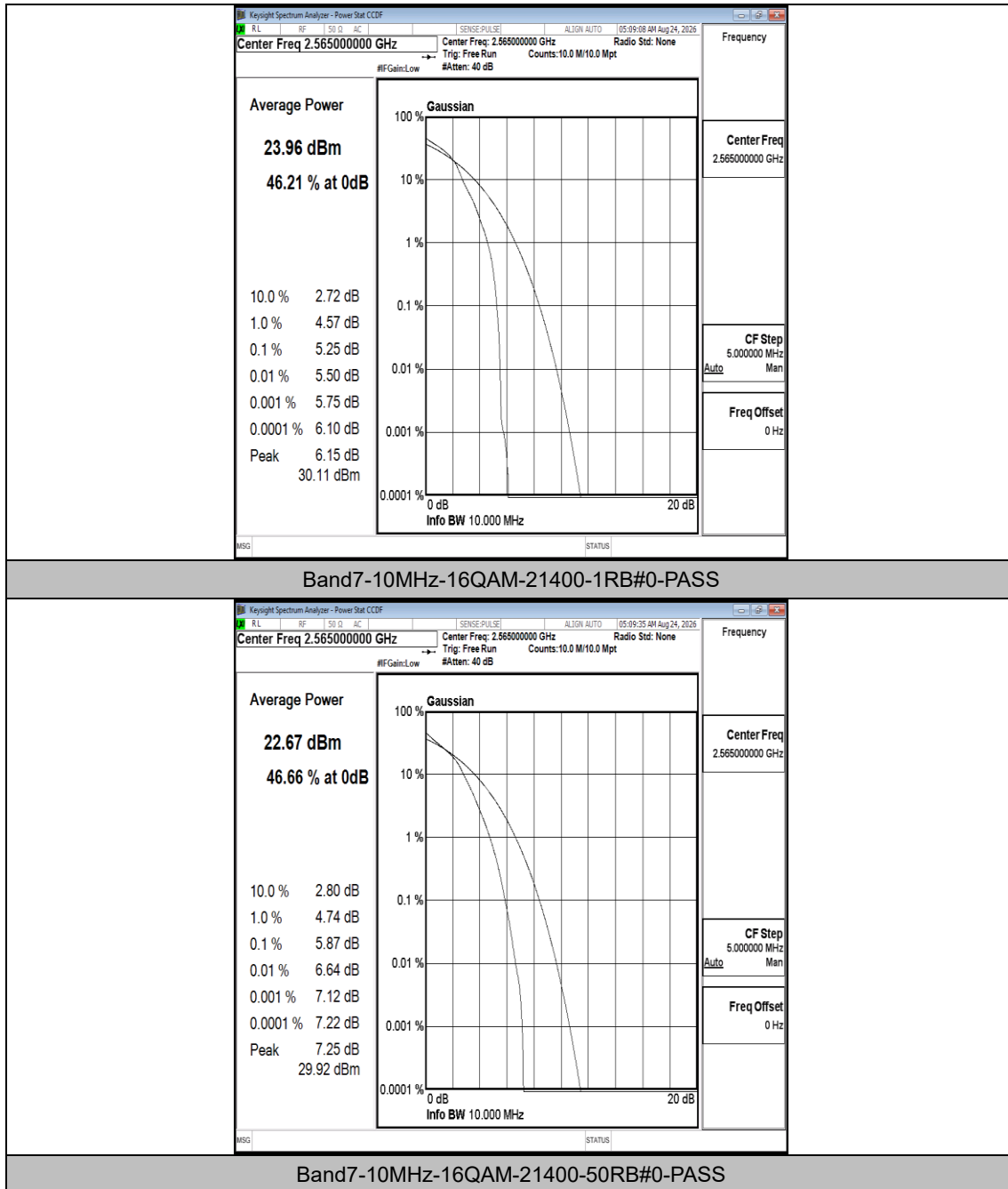


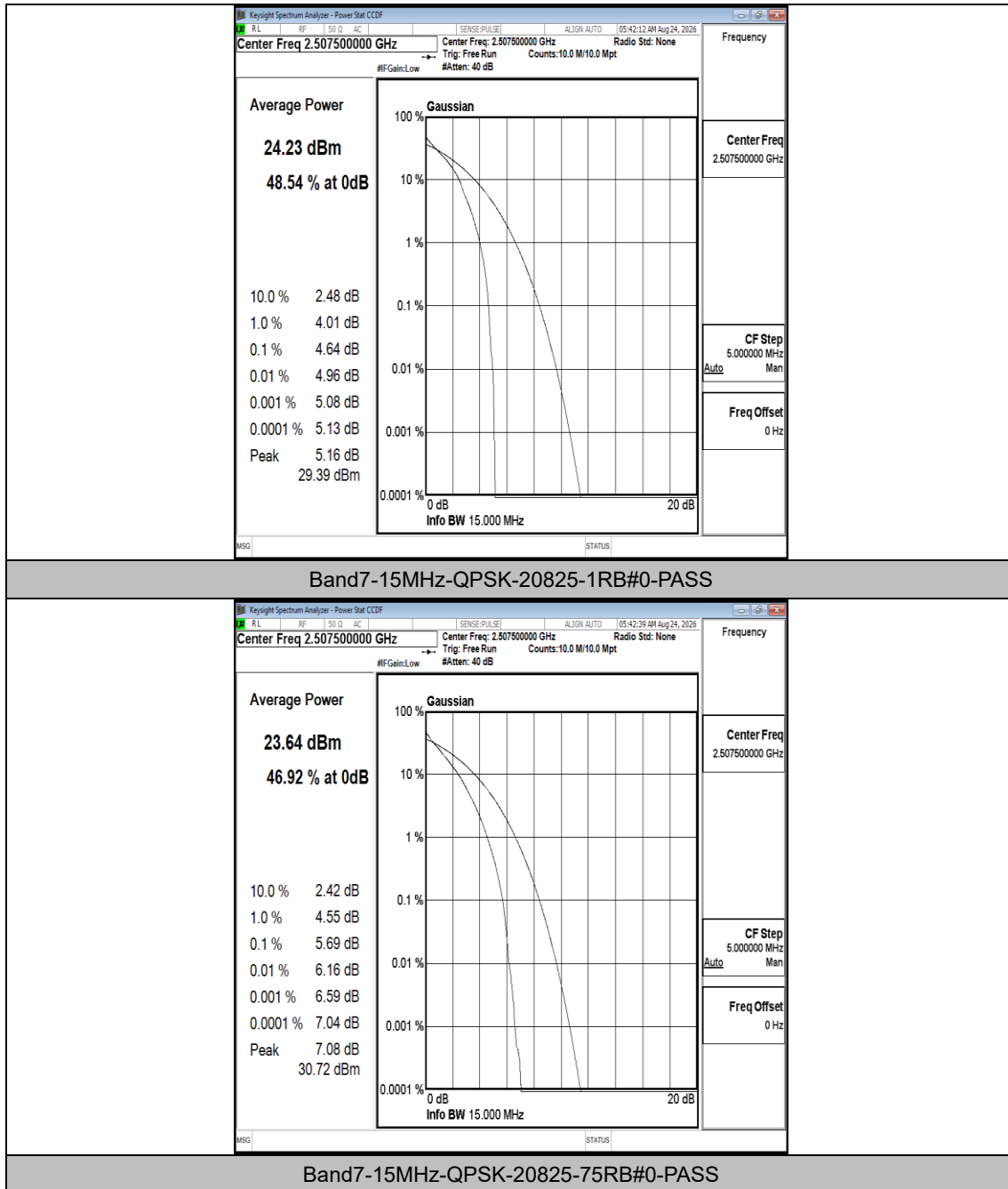


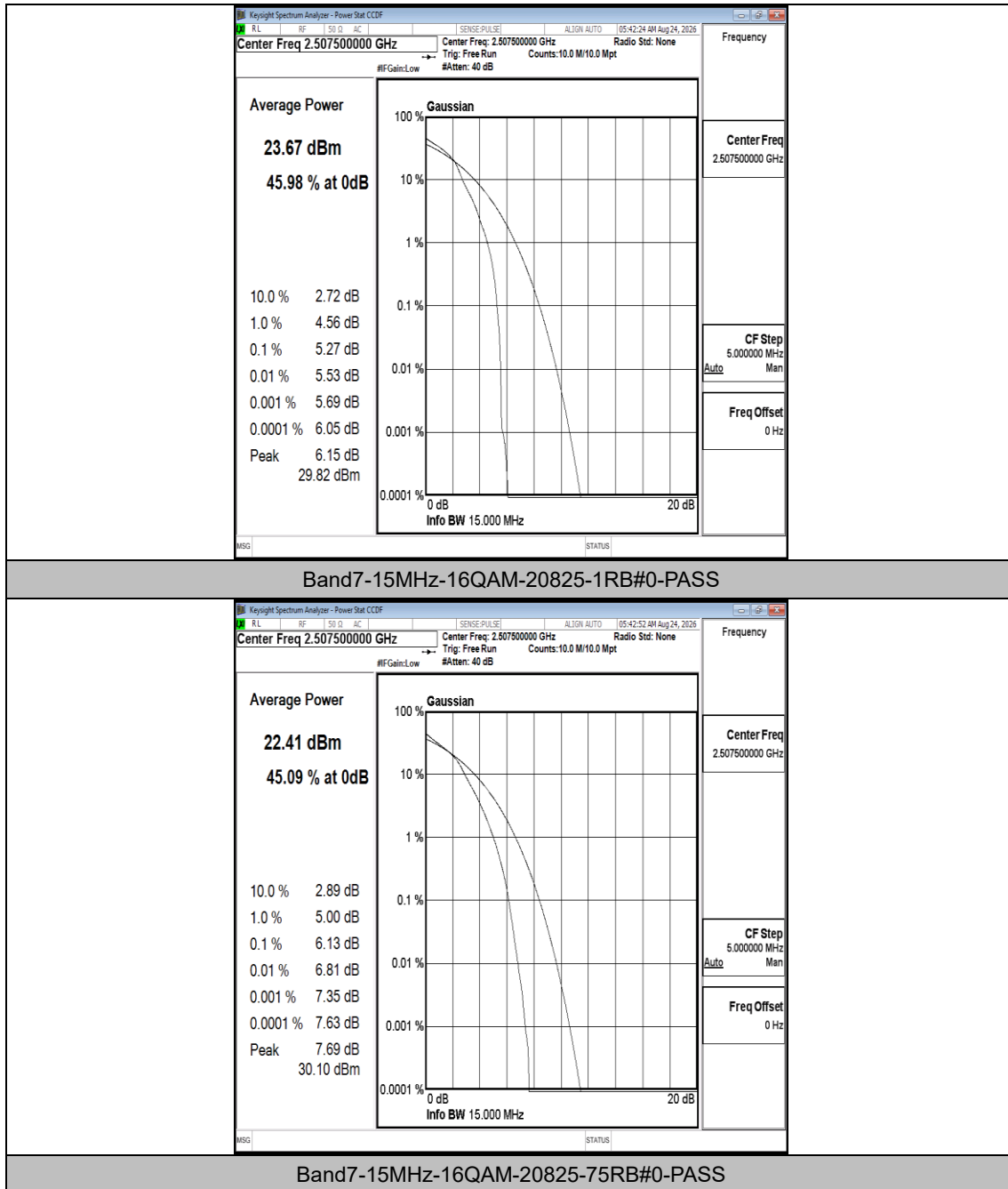


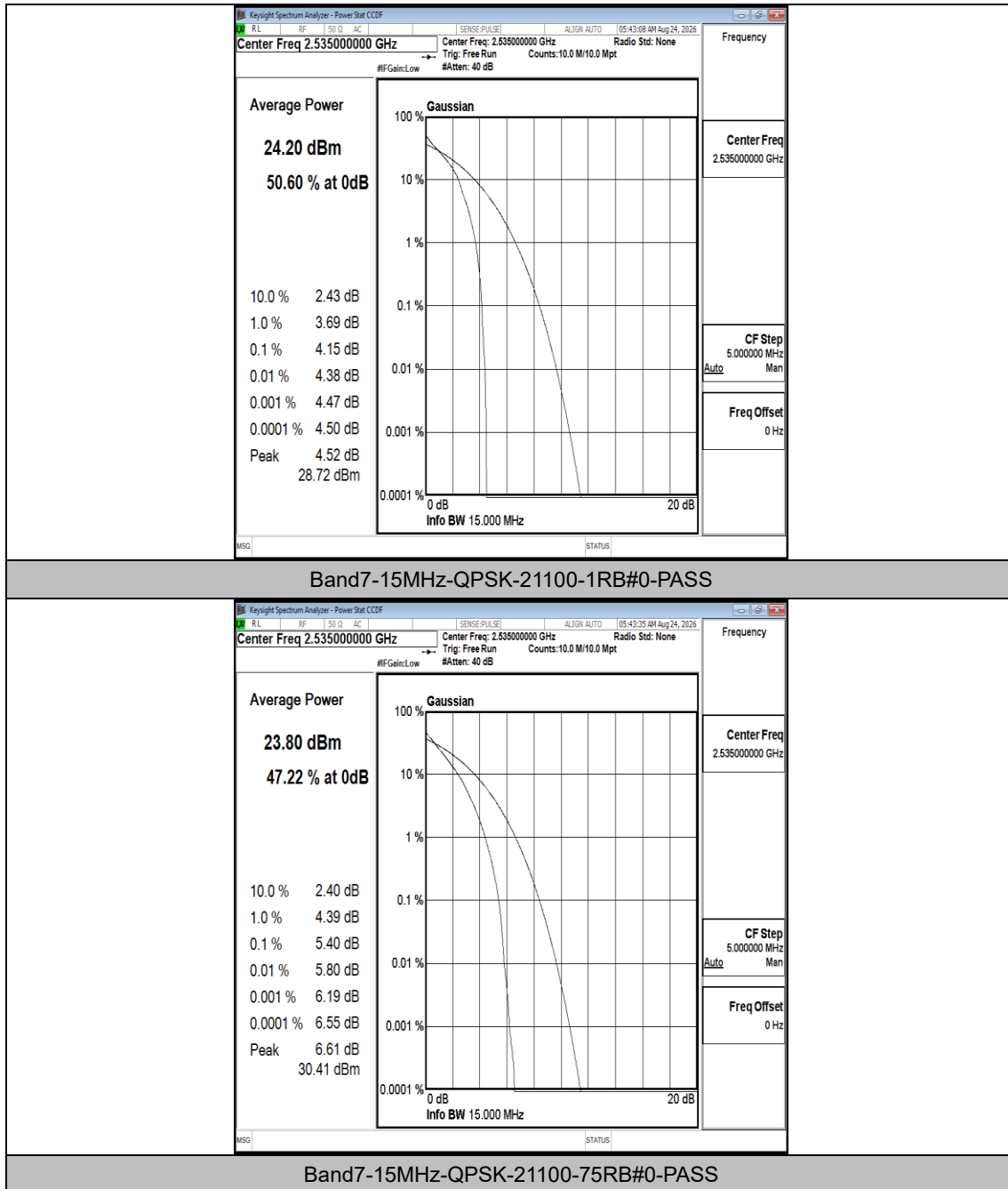


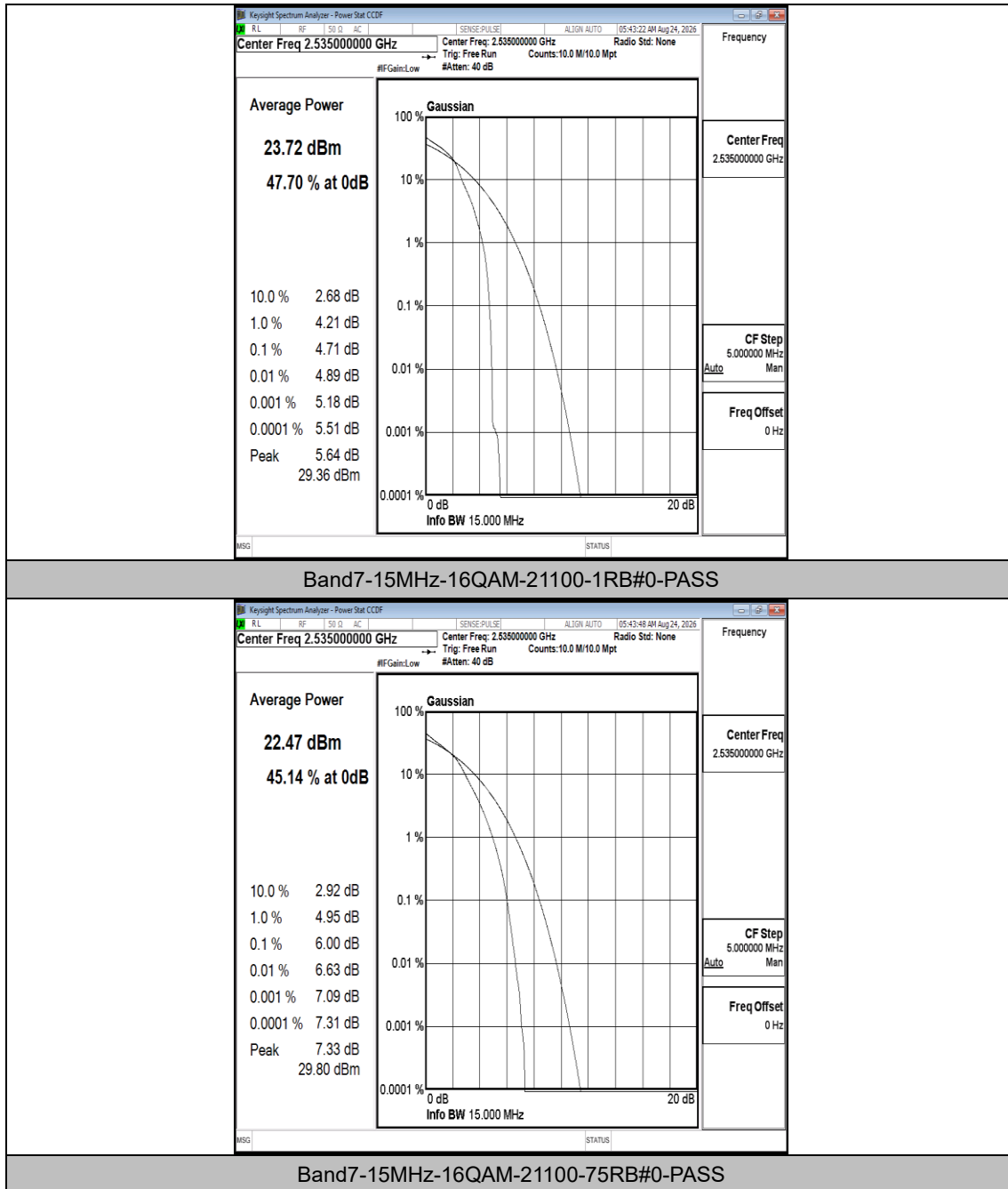


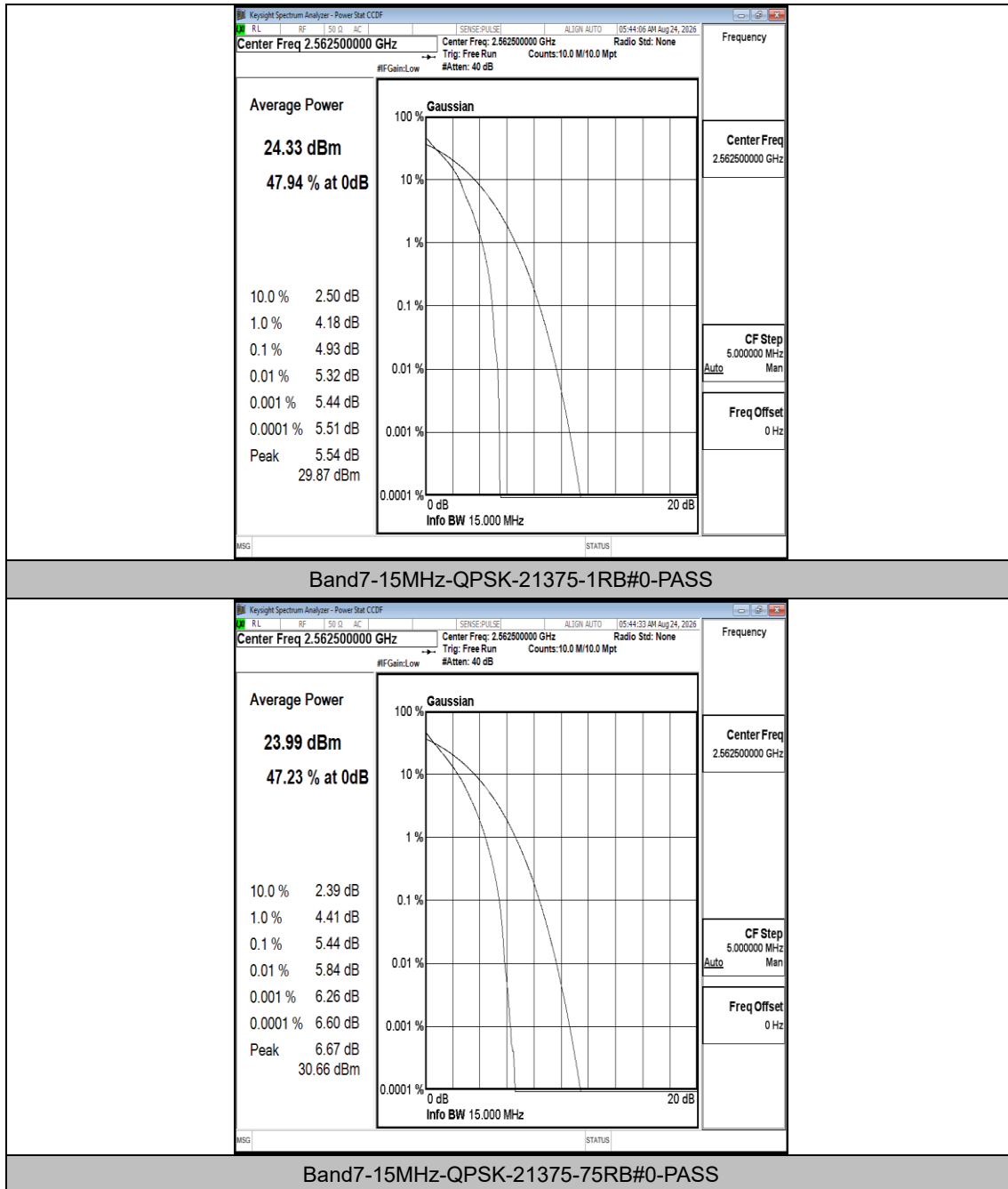


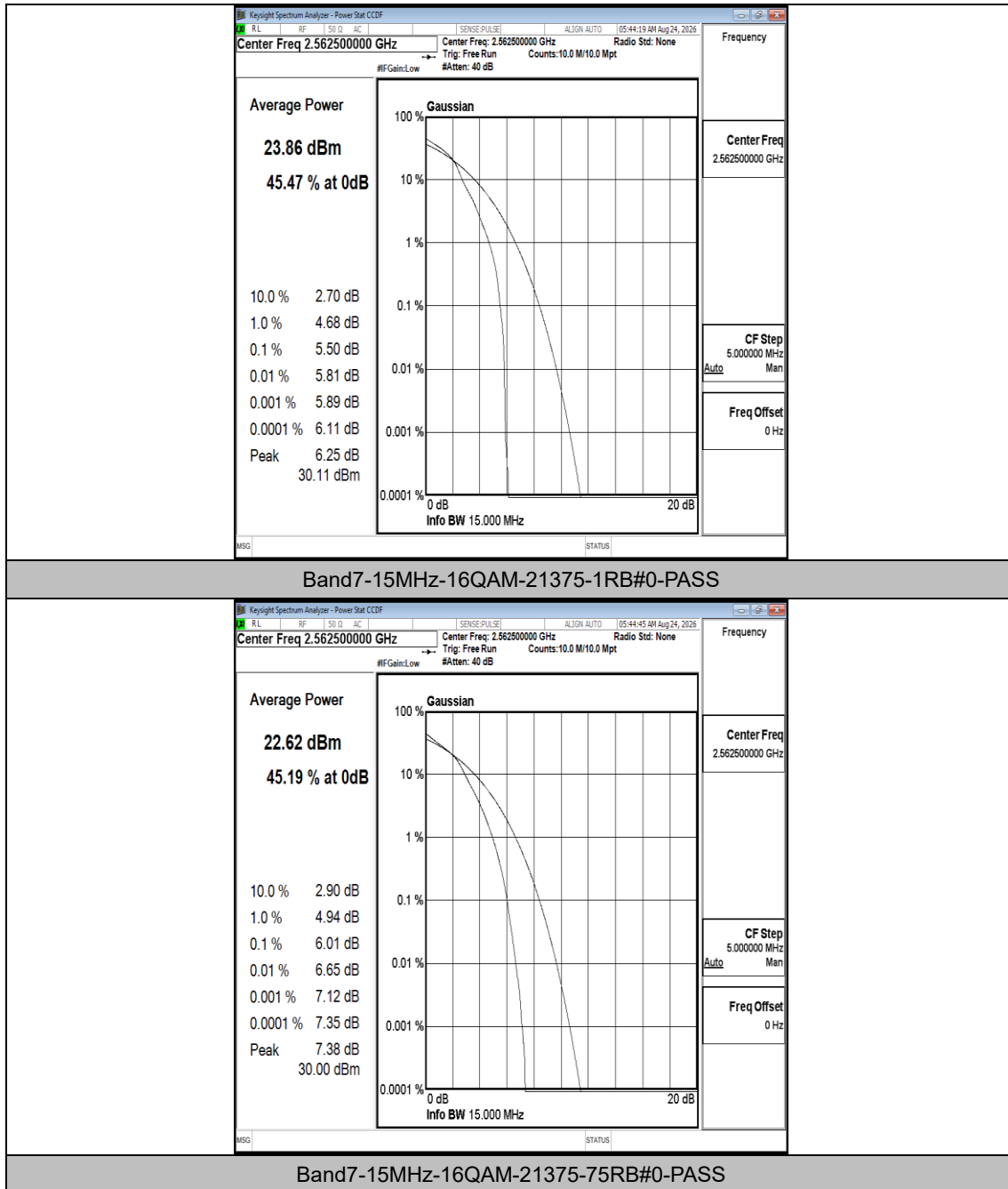


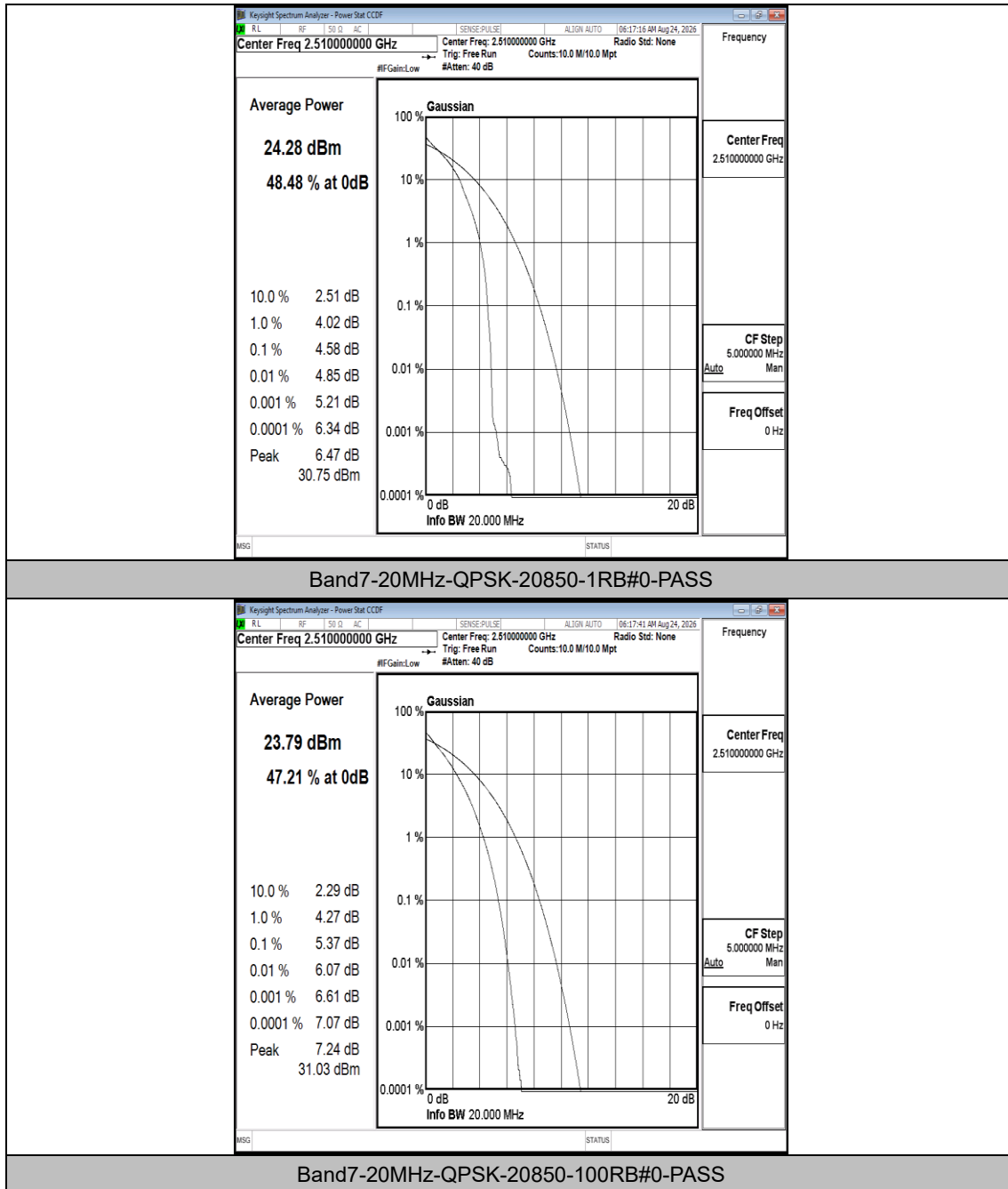


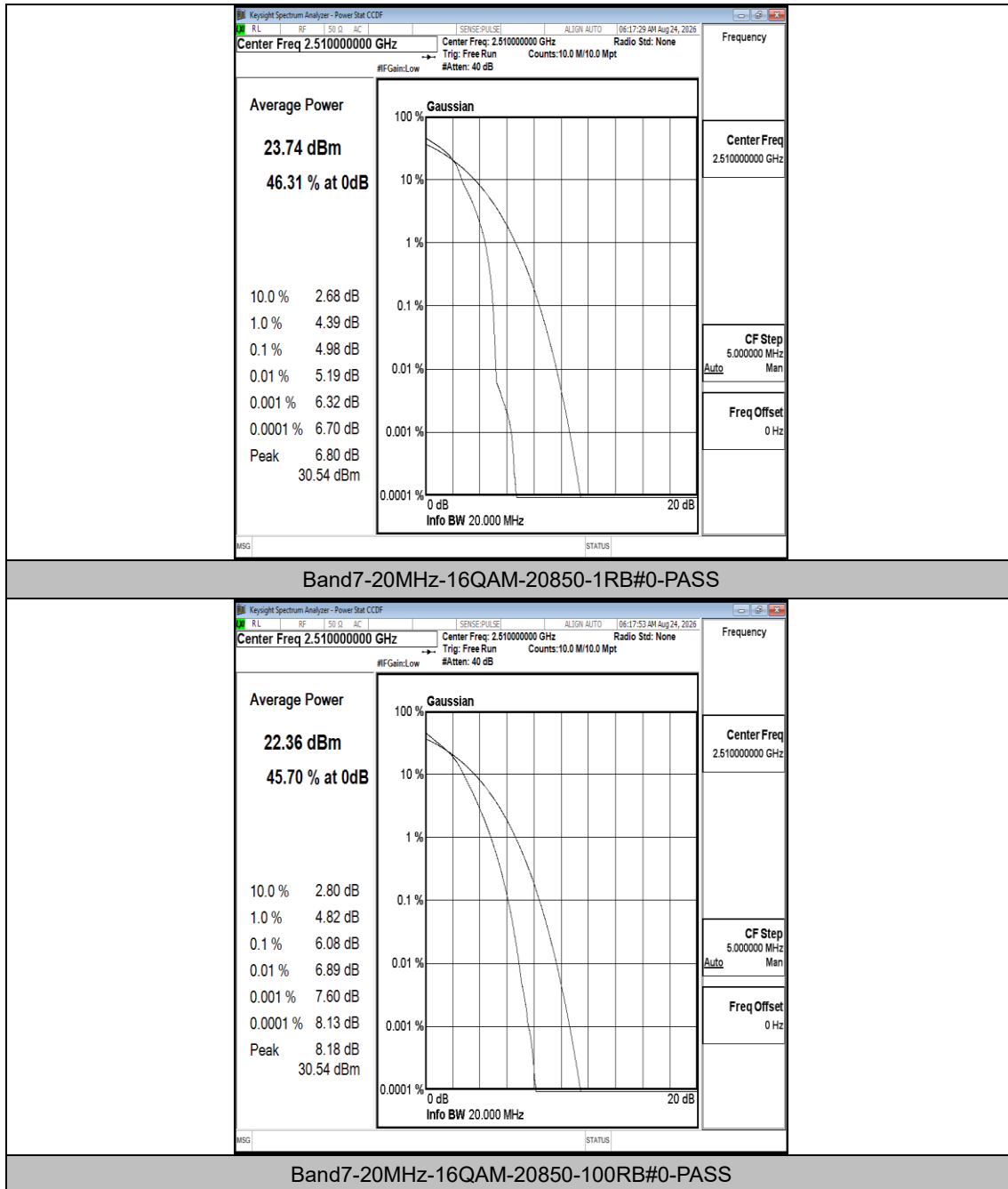


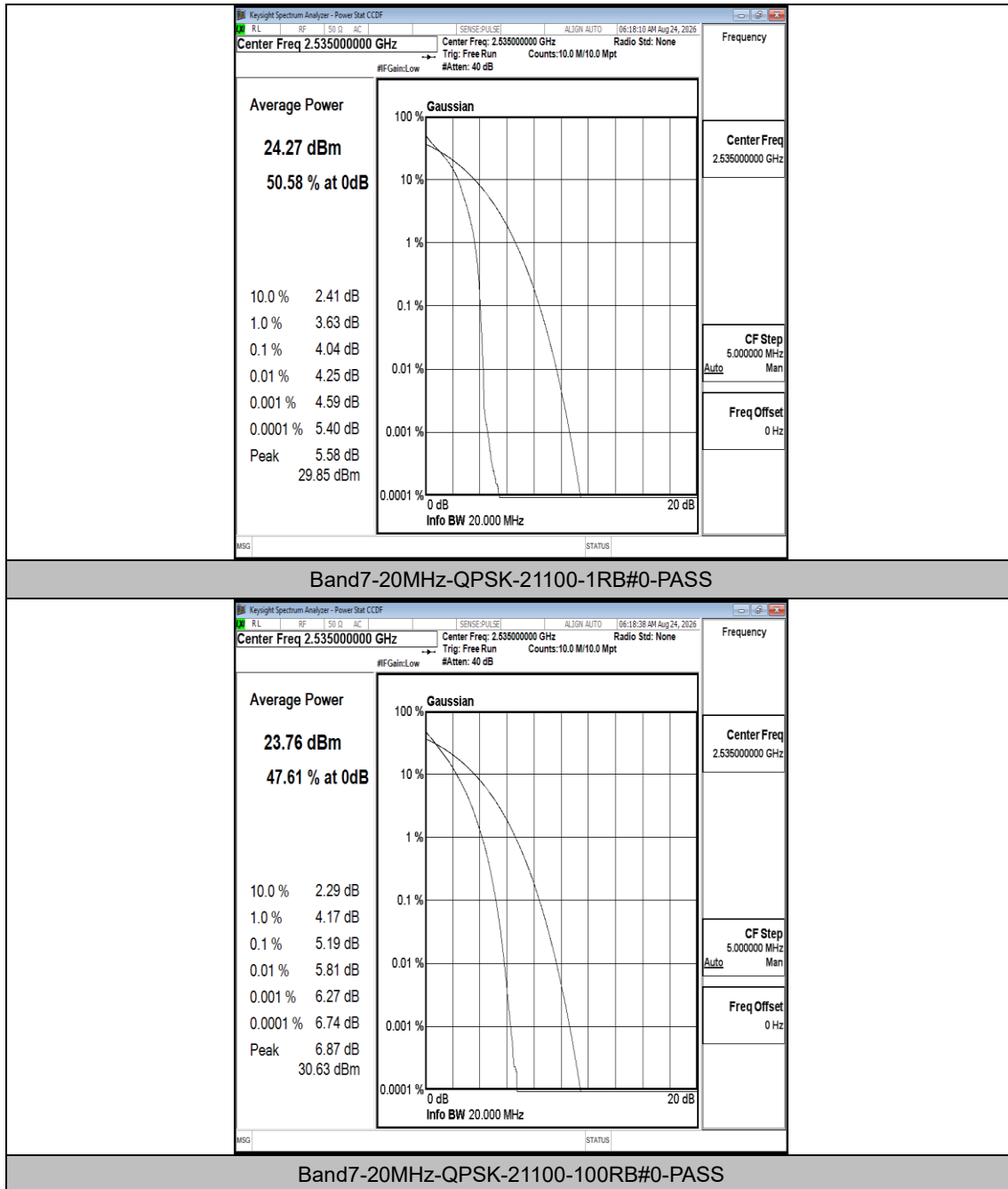


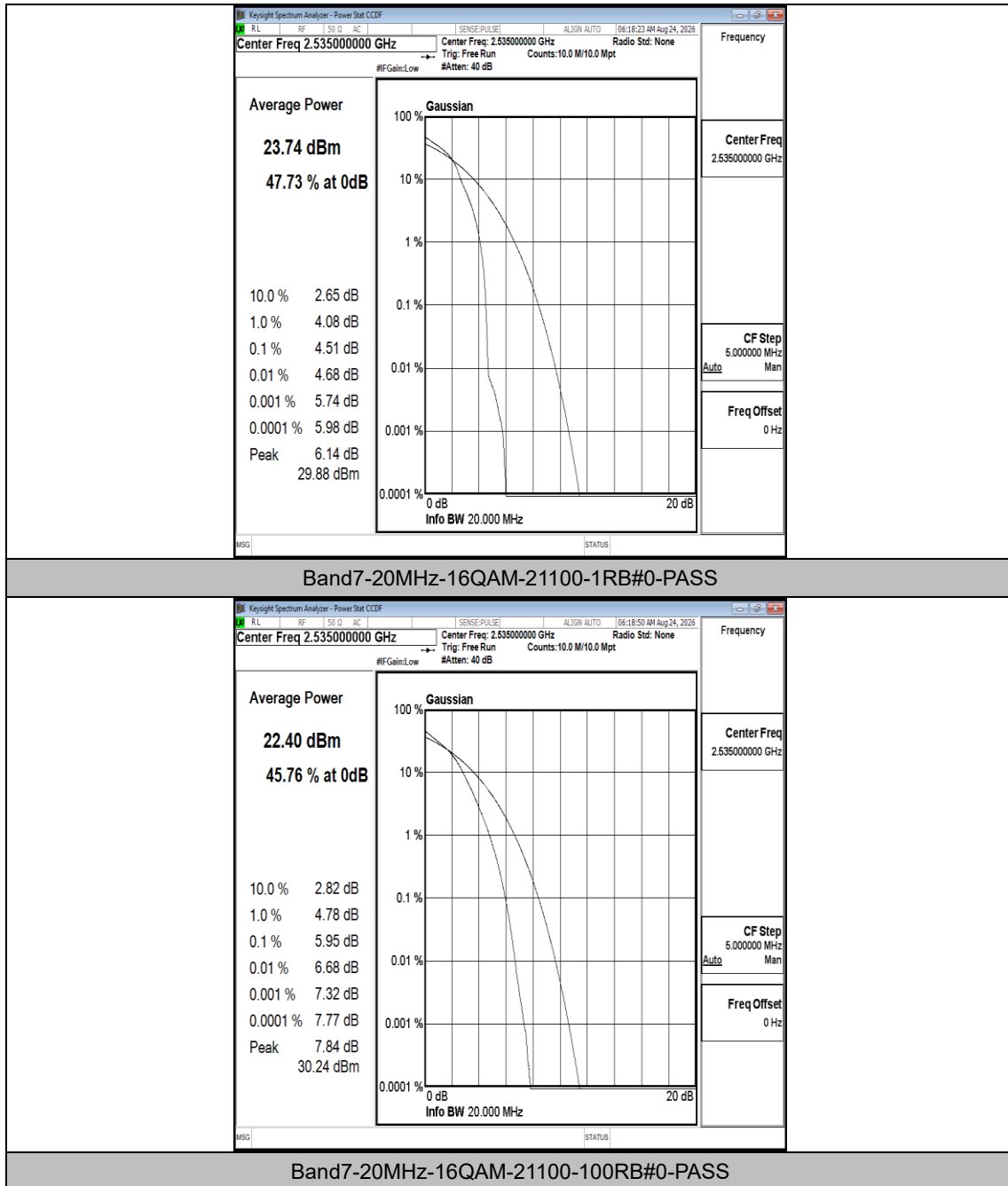


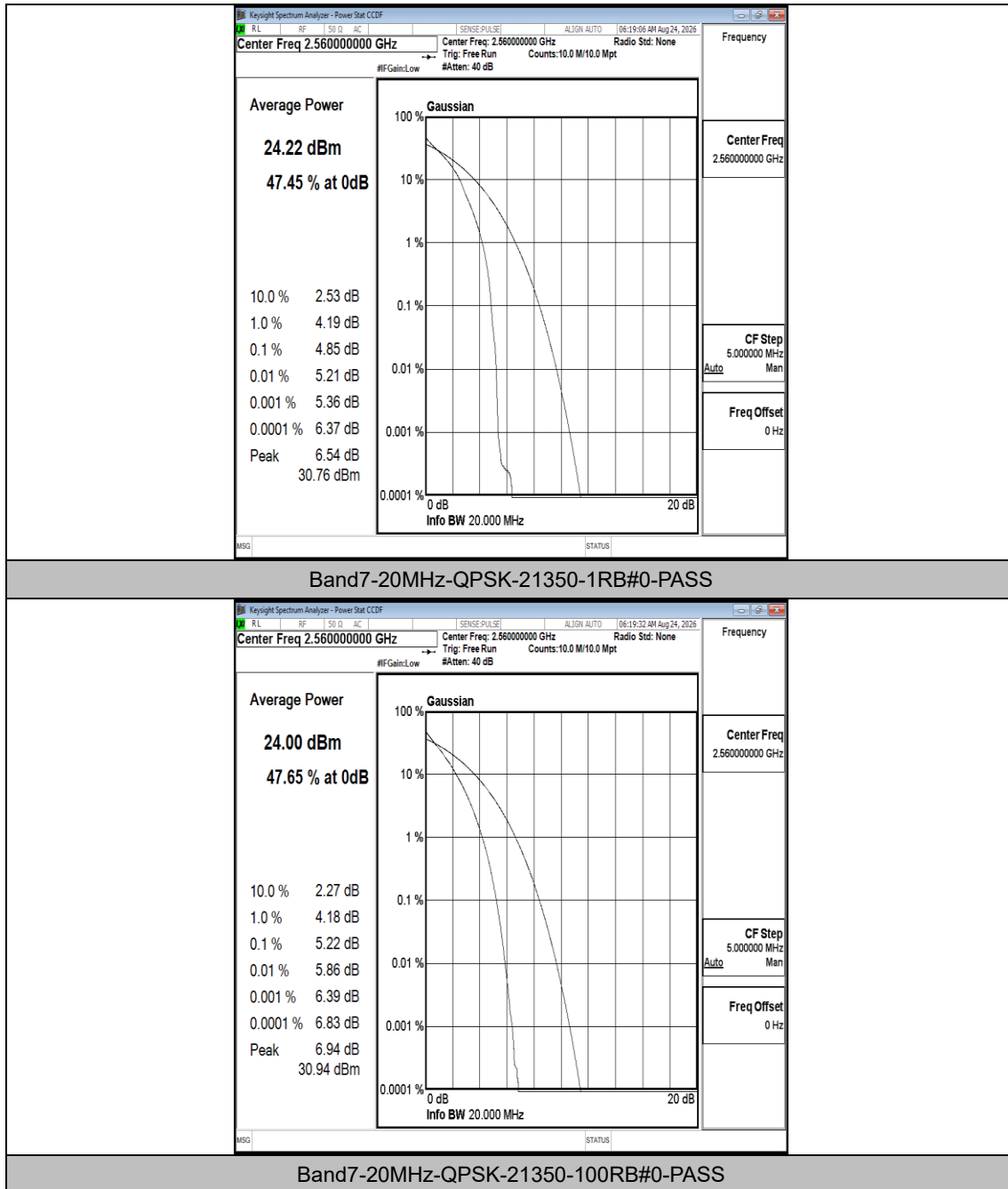


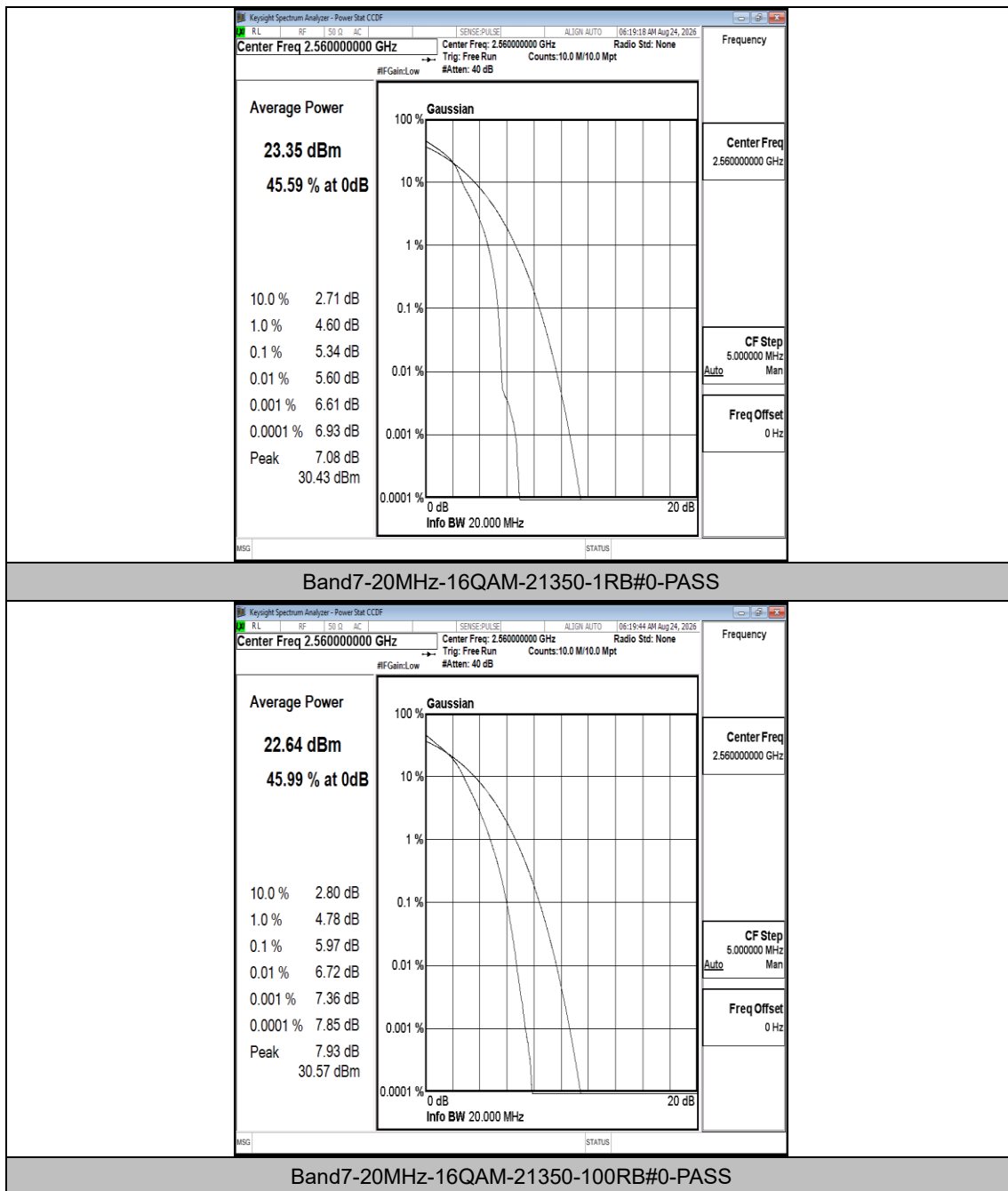










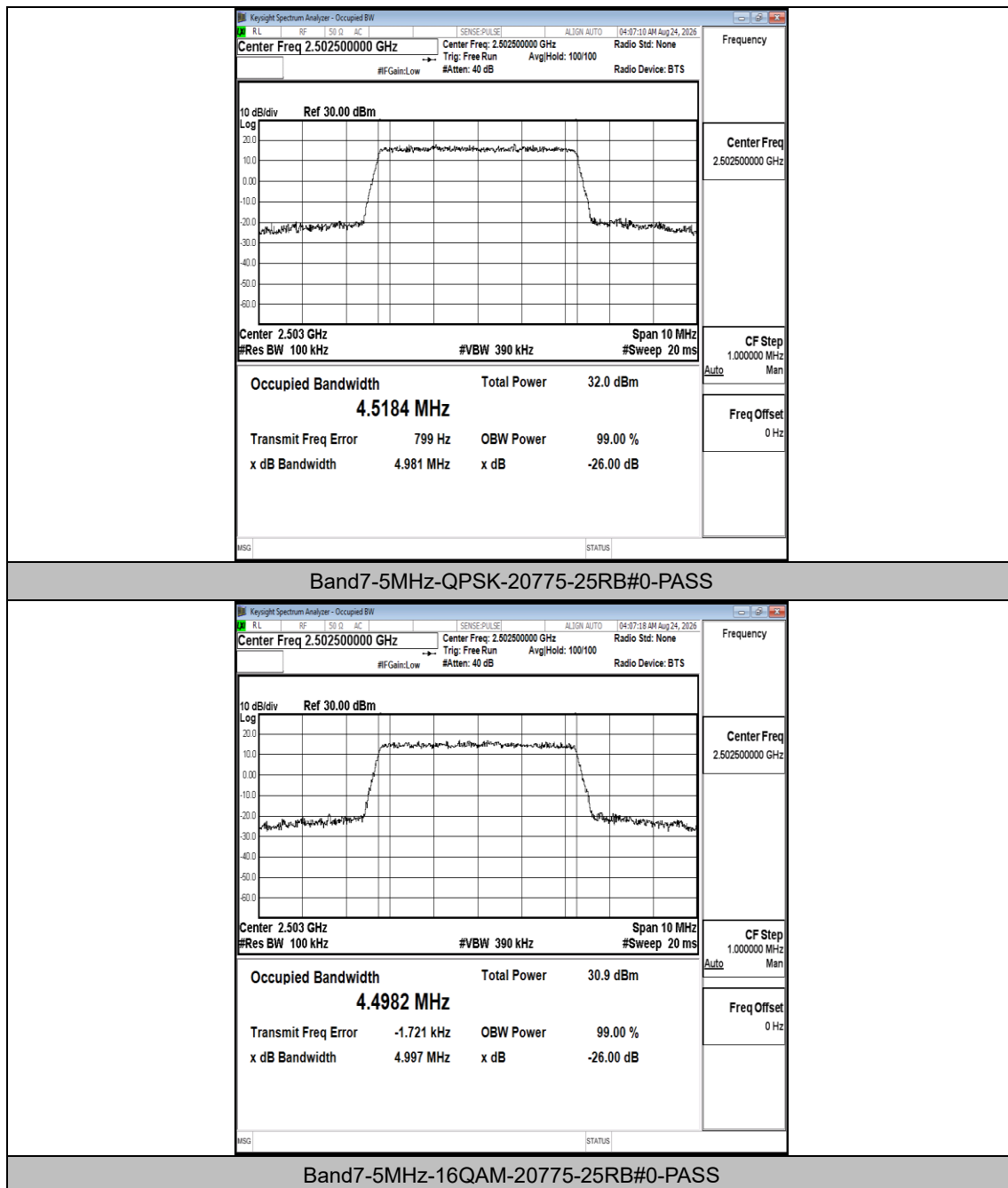


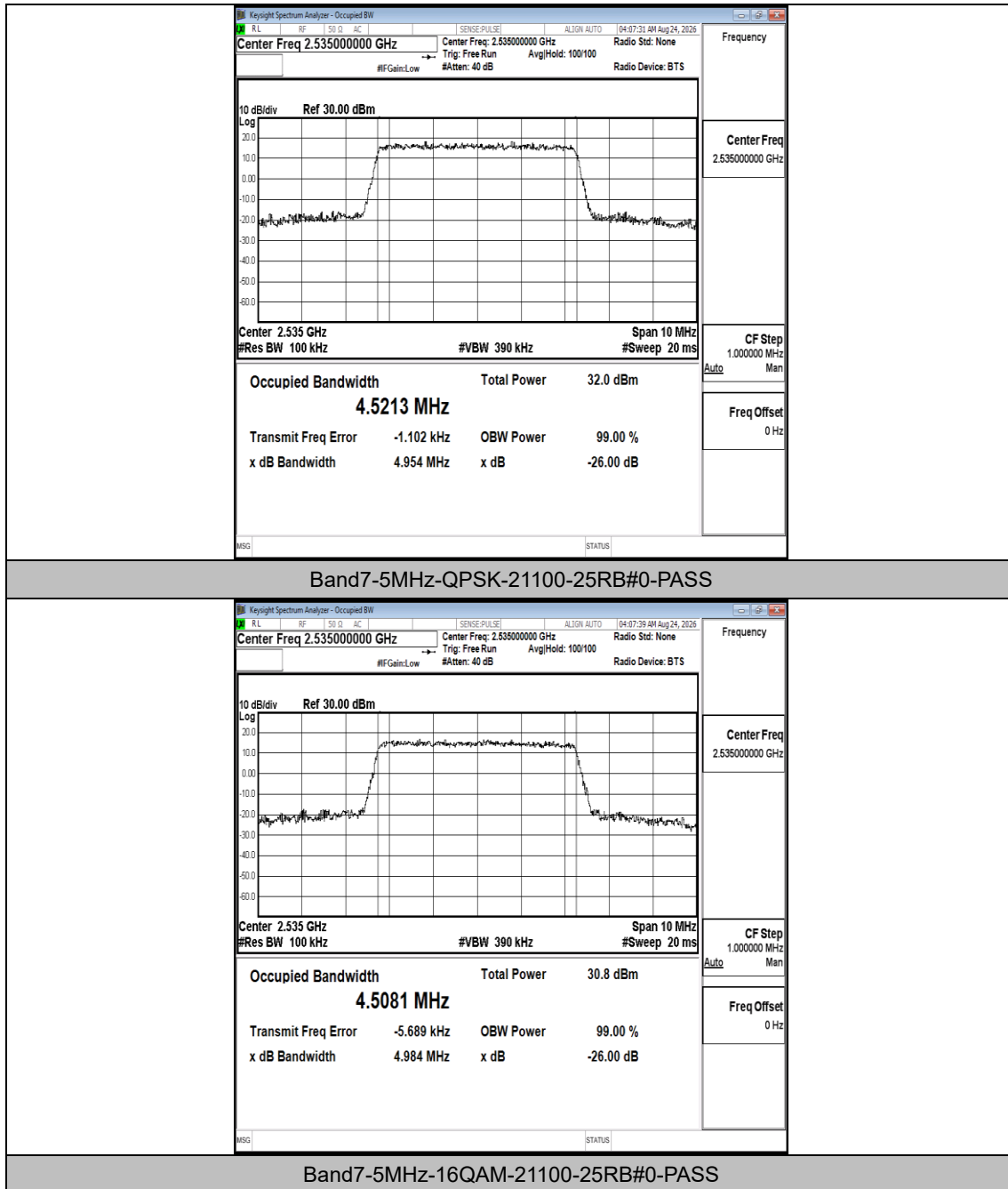
K.3 26dB Bandwidth and Occupied Bandwidth

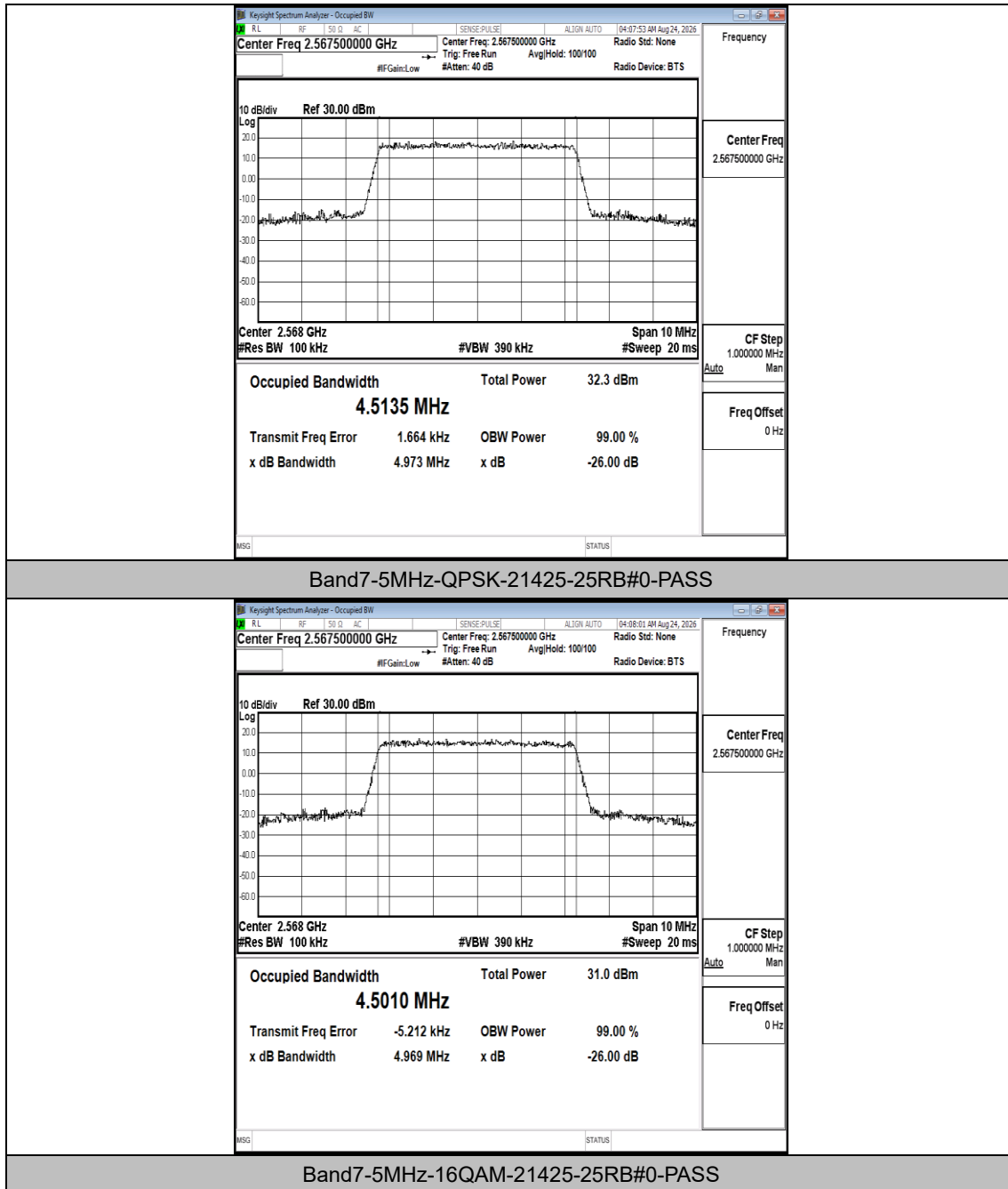
Test Result

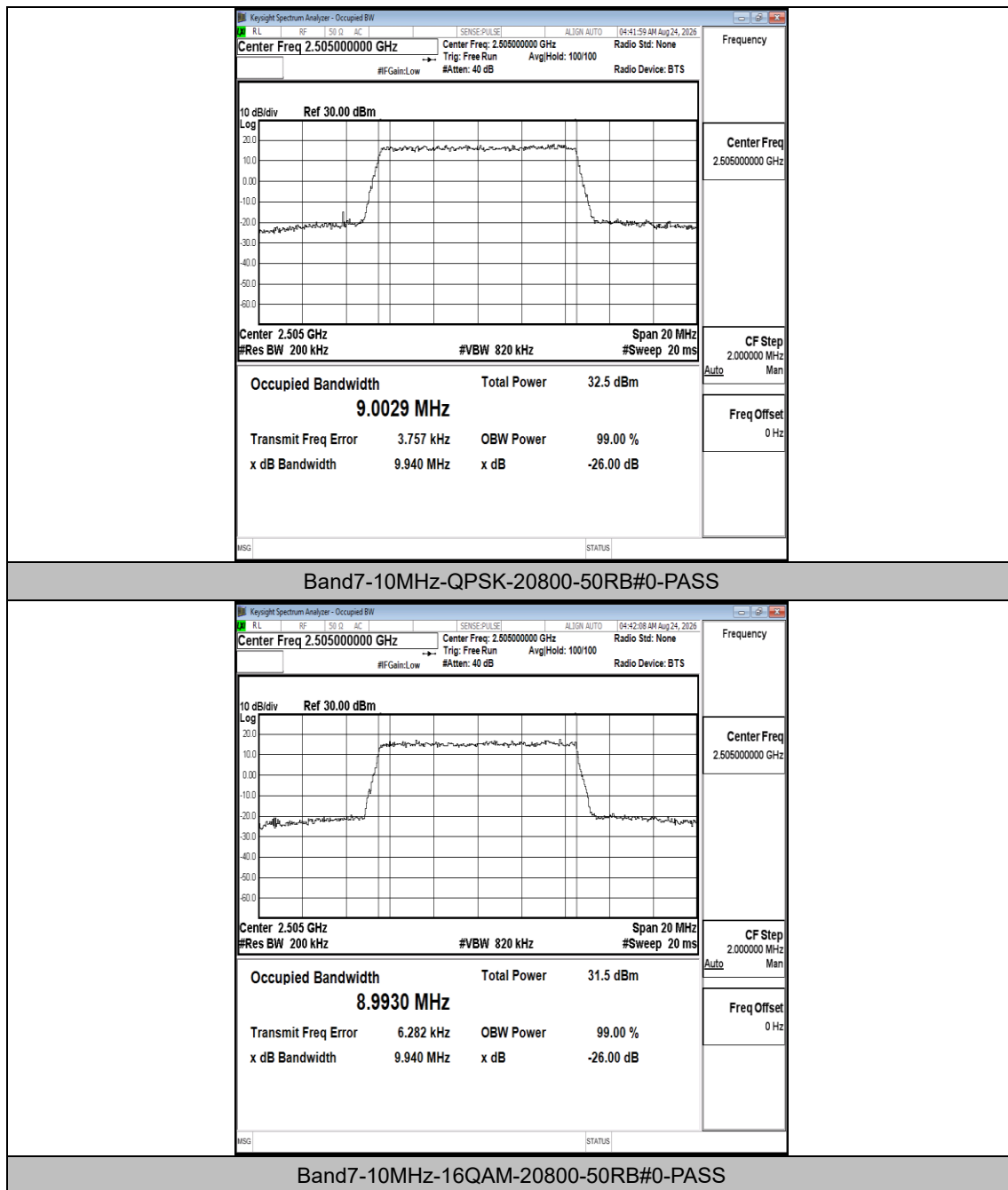
Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band7	5MHz	QPSK	20775	25RB#0	4.5184	4.981	PASS
Band7	5MHz	16QAM	20775	25RB#0	4.4982	4.997	PASS
Band7	5MHz	QPSK	21100	25RB#0	4.5213	4.954	PASS
Band7	5MHz	16QAM	21100	25RB#0	4.5081	4.984	PASS
Band7	5MHz	QPSK	21425	25RB#0	4.5135	4.973	PASS
Band7	5MHz	16QAM	21425	25RB#0	4.5010	4.969	PASS
Band7	10MHz	QPSK	20800	50RB#0	9.0029	9.940	PASS
Band7	10MHz	16QAM	20800	50RB#0	8.9930	9.940	PASS
Band7	10MHz	QPSK	21100	50RB#0	8.9936	9.915	PASS
Band7	10MHz	16QAM	21100	50RB#0	9.0005	9.917	PASS
Band7	10MHz	QPSK	21400	50RB#0	9.0110	10.04	PASS
Band7	10MHz	16QAM	21400	50RB#0	8.9927	9.921	PASS
Band7	15MHz	QPSK	20825	75RB#0	13.514	15.00	PASS
Band7	15MHz	16QAM	20825	75RB#0	13.504	15.02	PASS
Band7	15MHz	QPSK	21100	75RB#0	13.496	14.91	PASS
Band7	15MHz	16QAM	21100	75RB#0	13.503	14.89	PASS
Band7	15MHz	QPSK	21375	75RB#0	13.453	14.92	PASS
Band7	15MHz	16QAM	21375	75RB#0	13.484	14.91	PASS
Band7	20MHz	QPSK	20850	100RB#0	17.999	19.61	PASS
Band7	20MHz	16QAM	20850	100RB#0	17.989	19.72	PASS
Band7	20MHz	QPSK	21100	100RB#0	18.002	19.61	PASS
Band7	20MHz	16QAM	21100	100RB#0	18.011	19.68	PASS
Band7	20MHz	QPSK	21350	100RB#0	17.979	19.66	PASS
Band7	20MHz	16QAM	21350	100RB#0	17.971	19.69	PASS

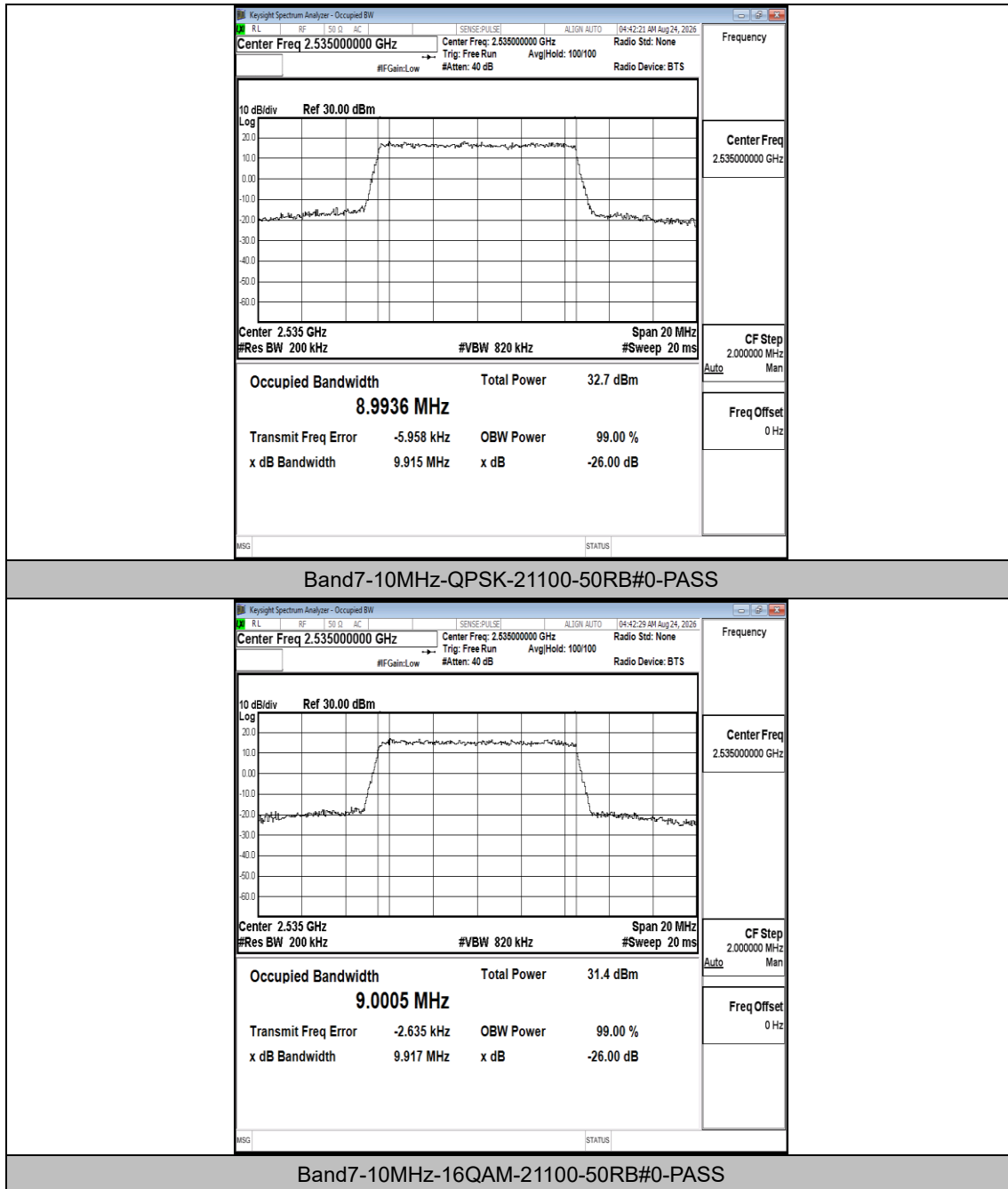
Test Graphs

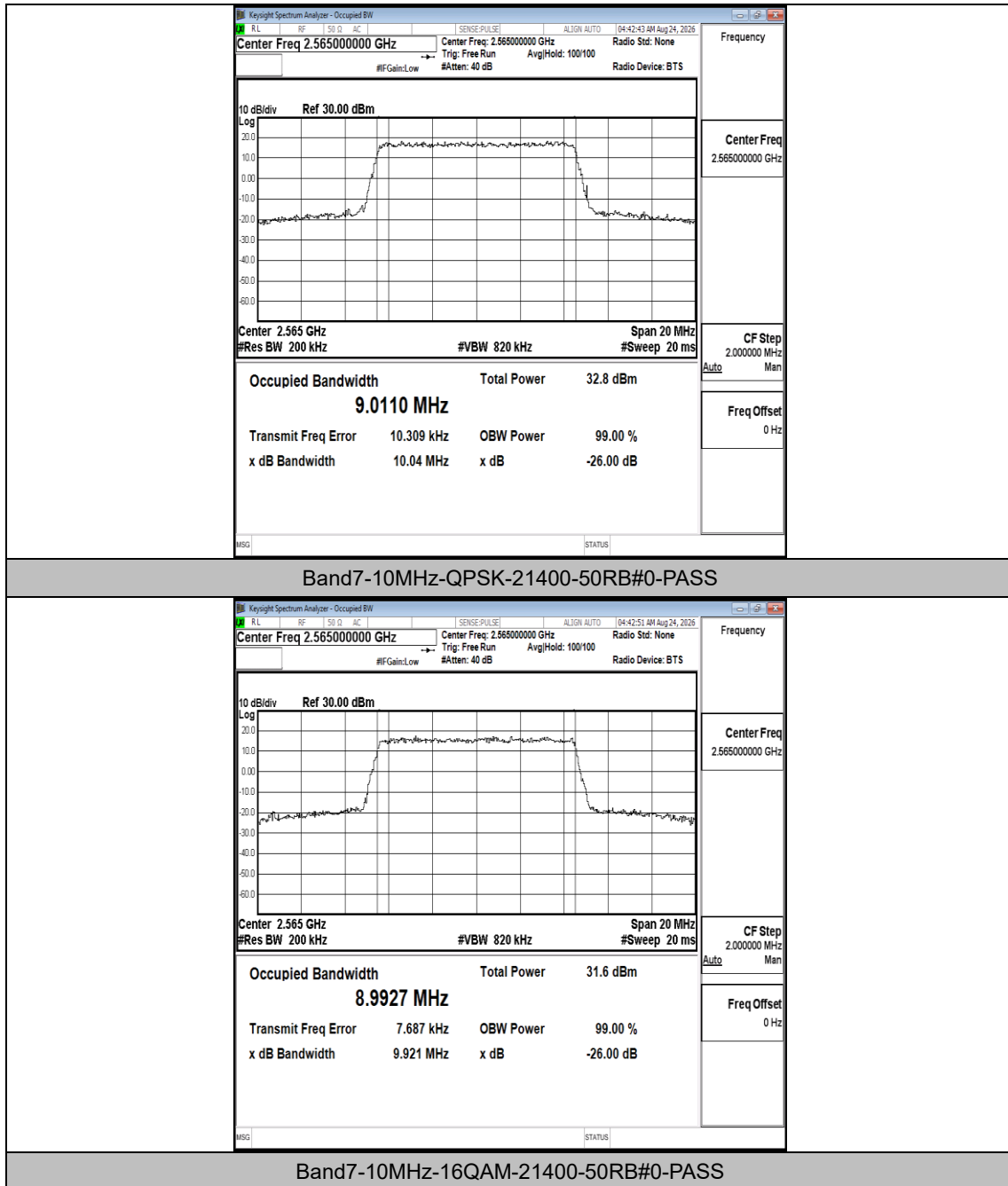


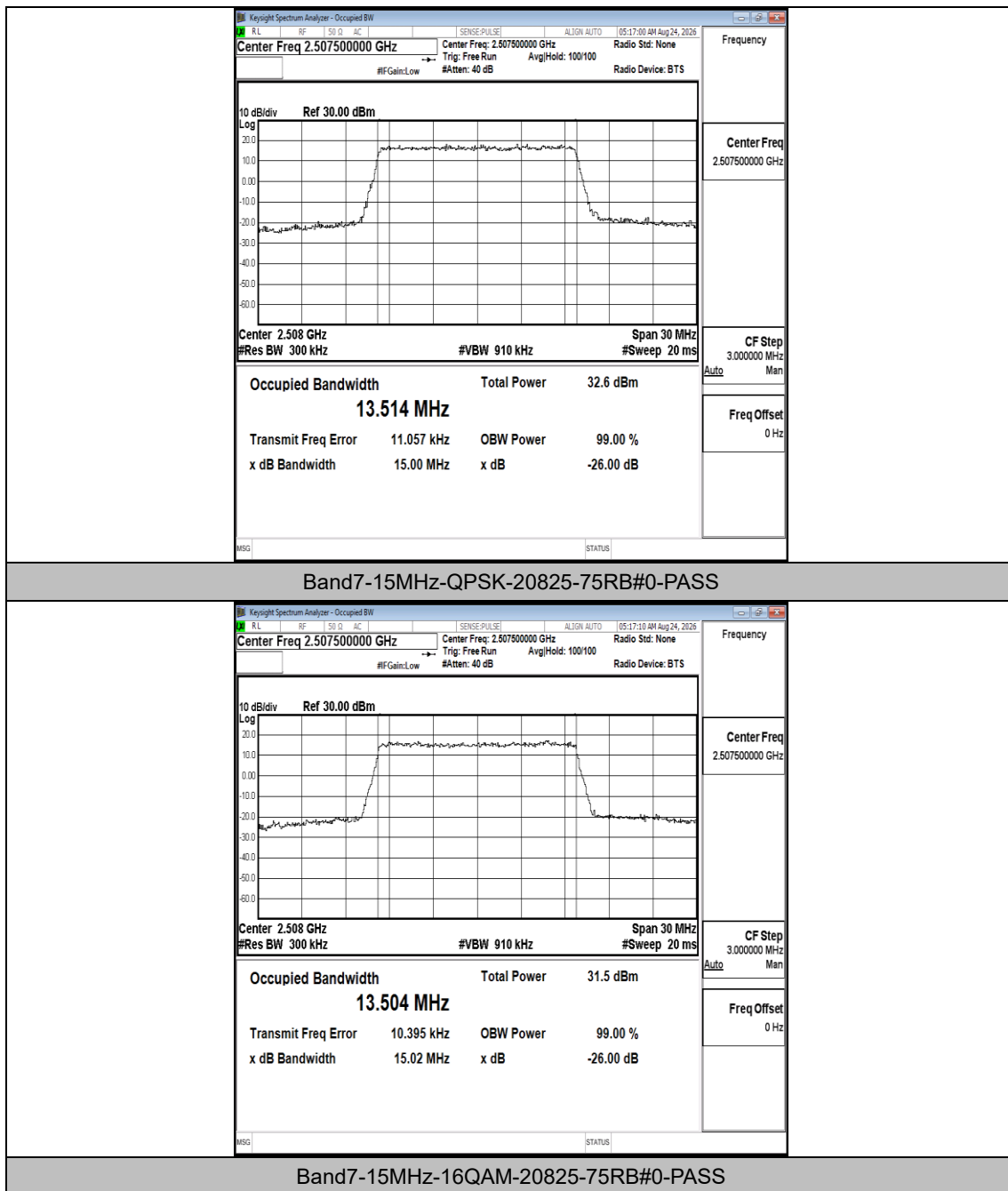


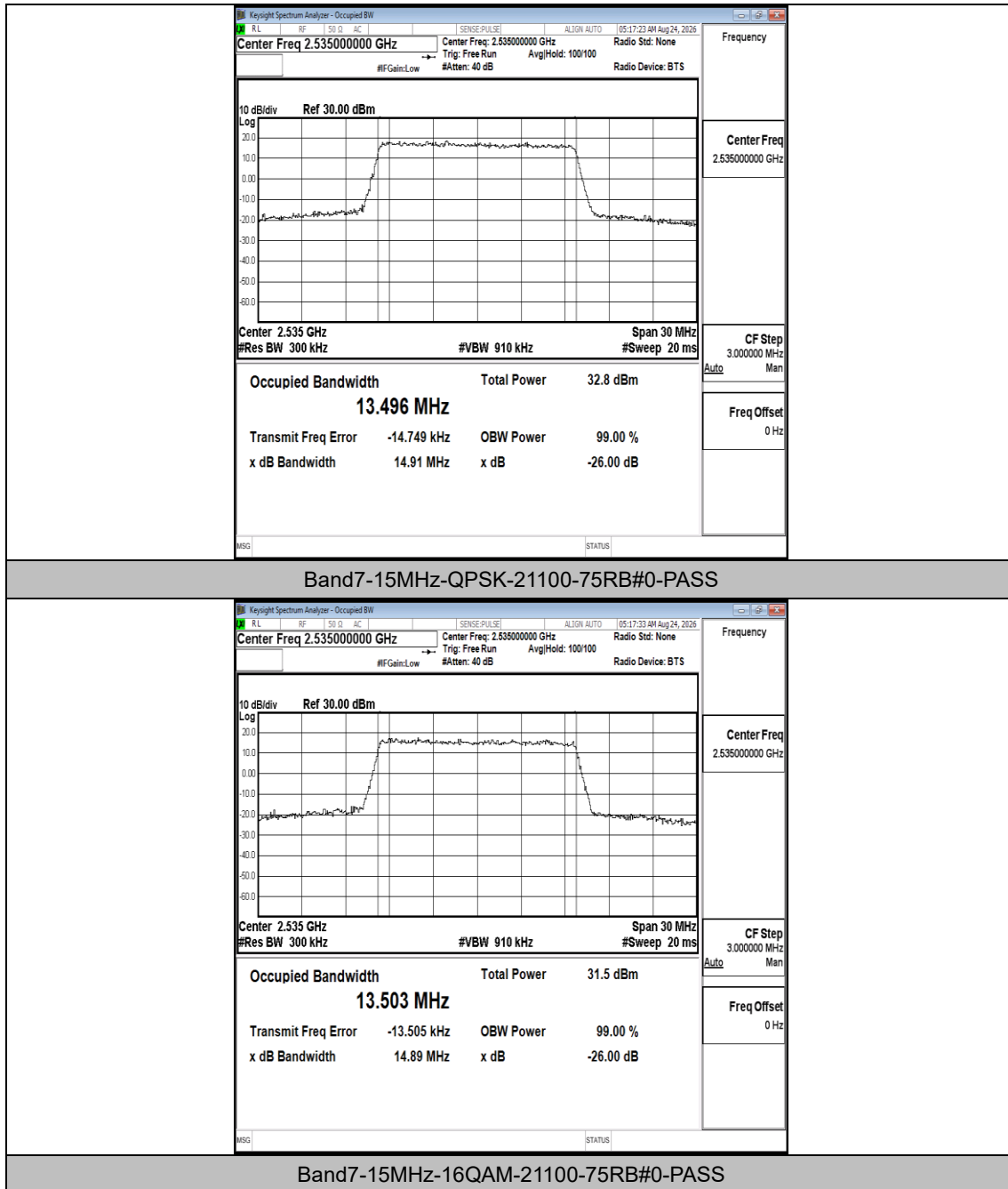


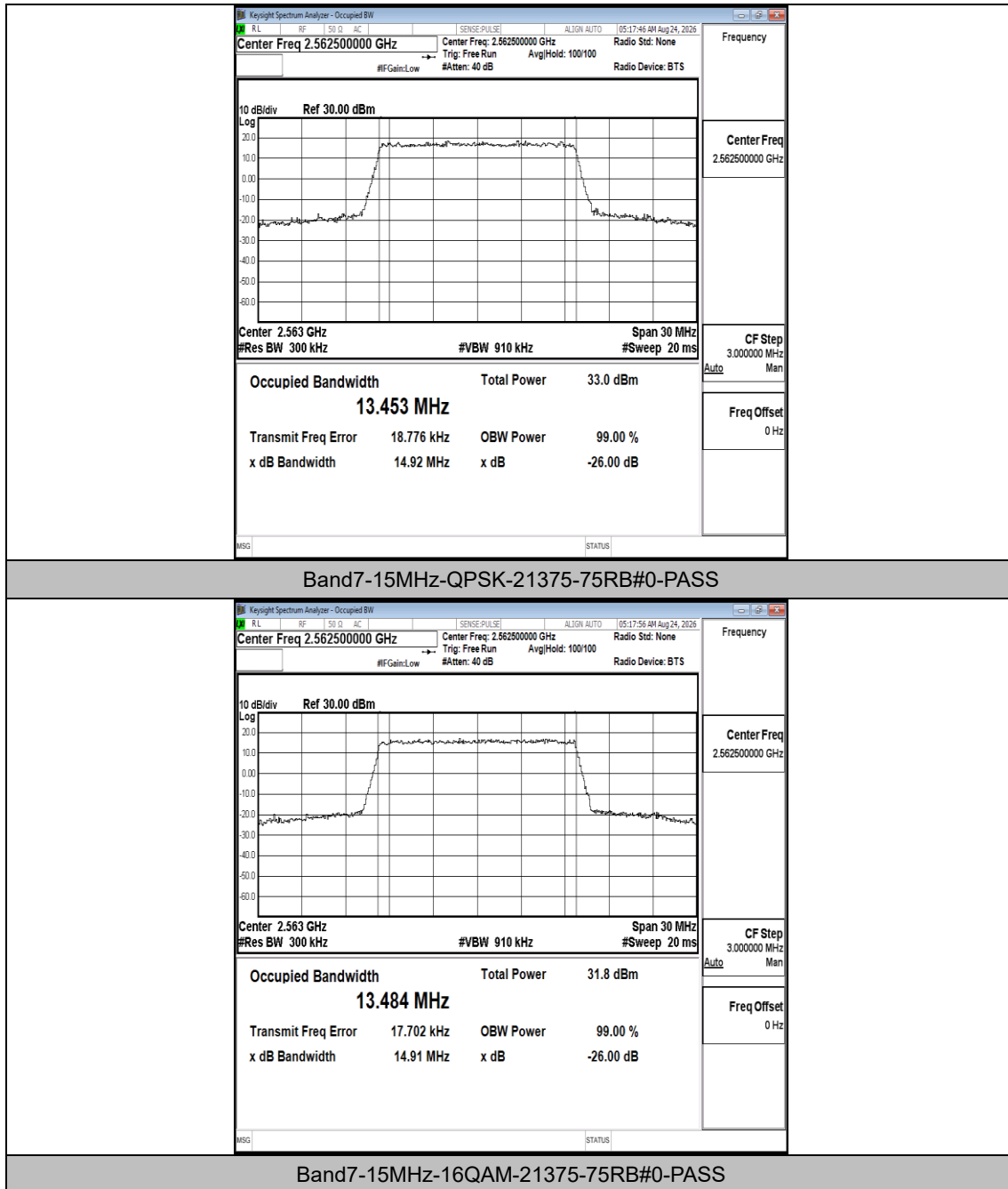


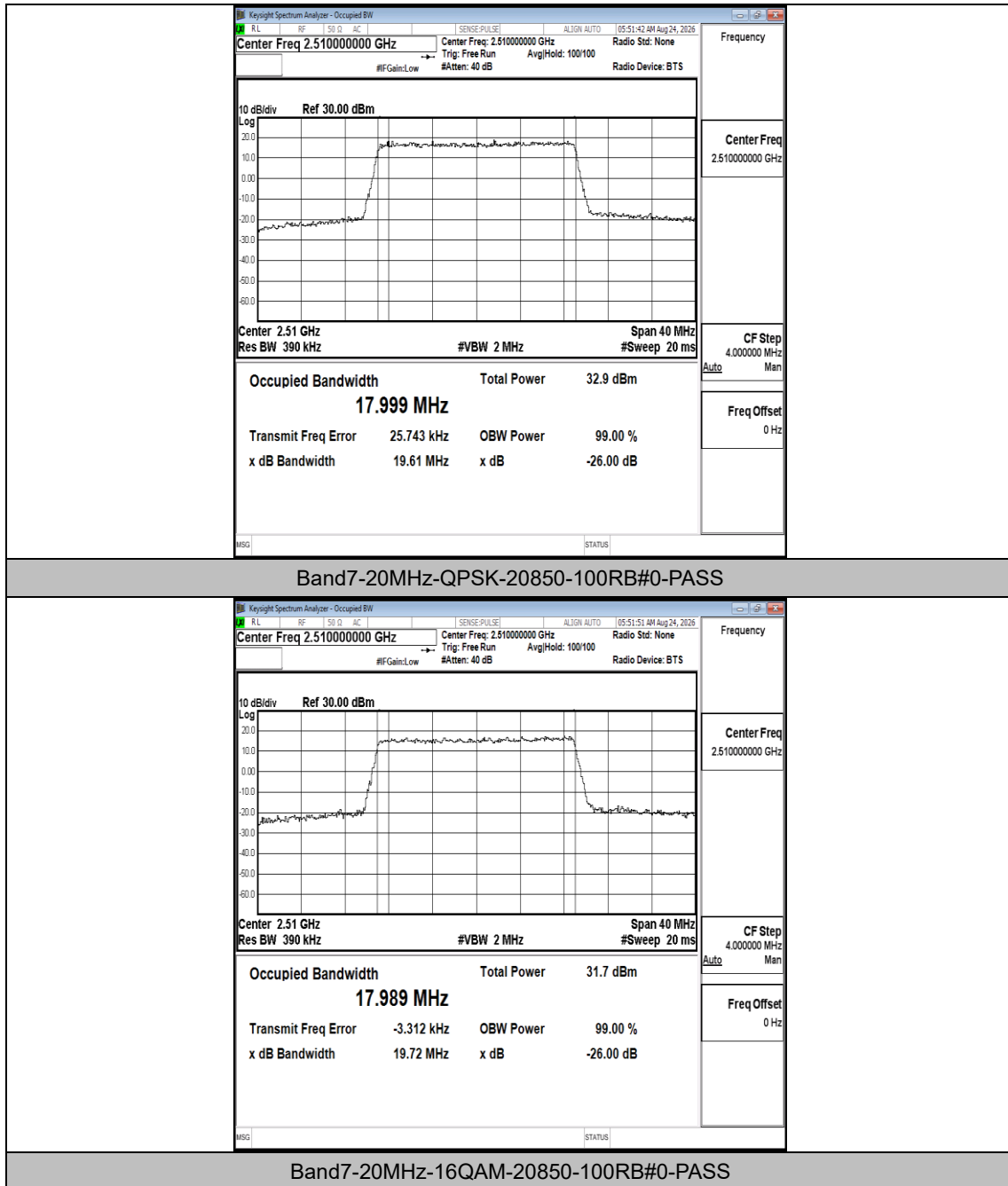


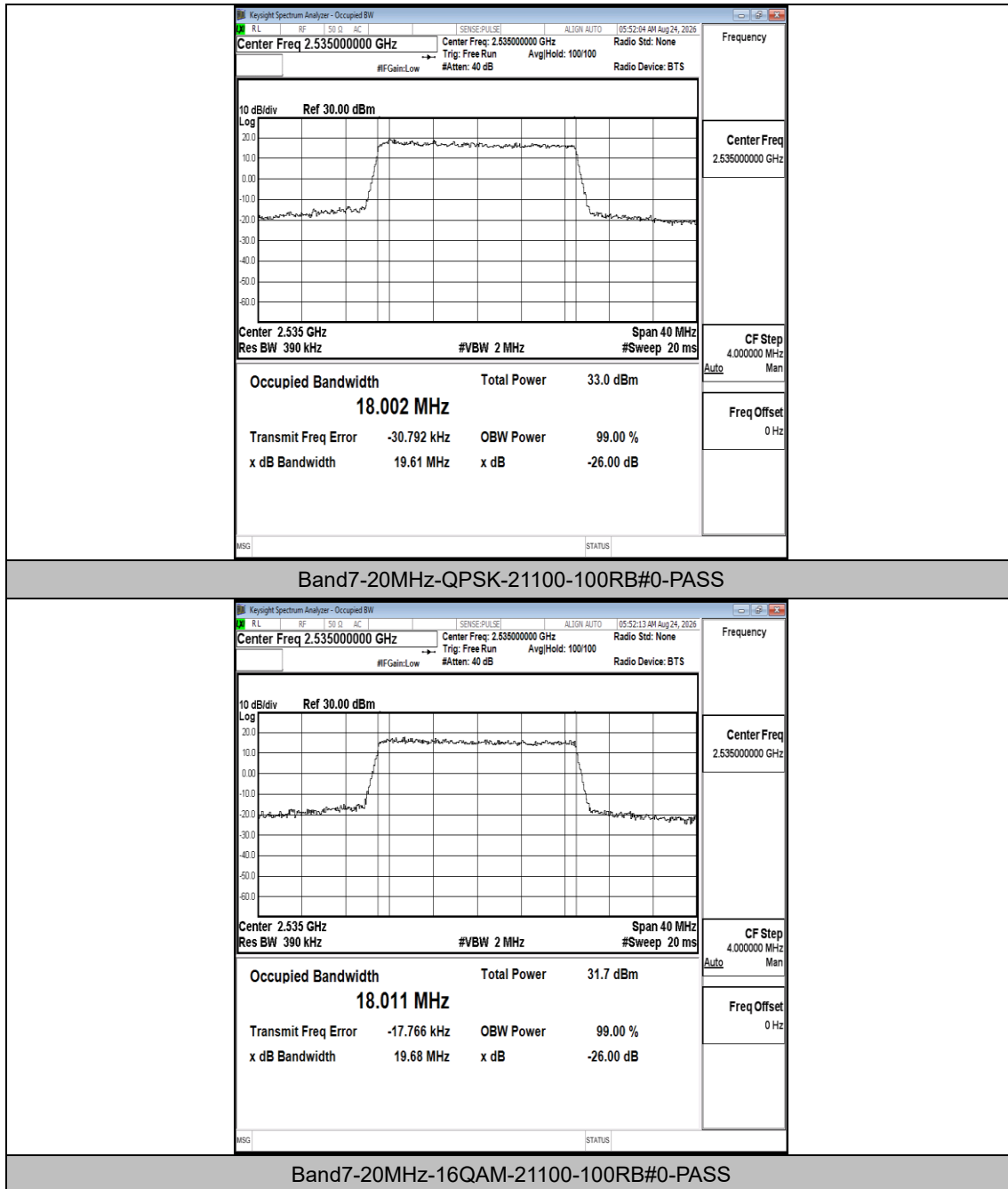


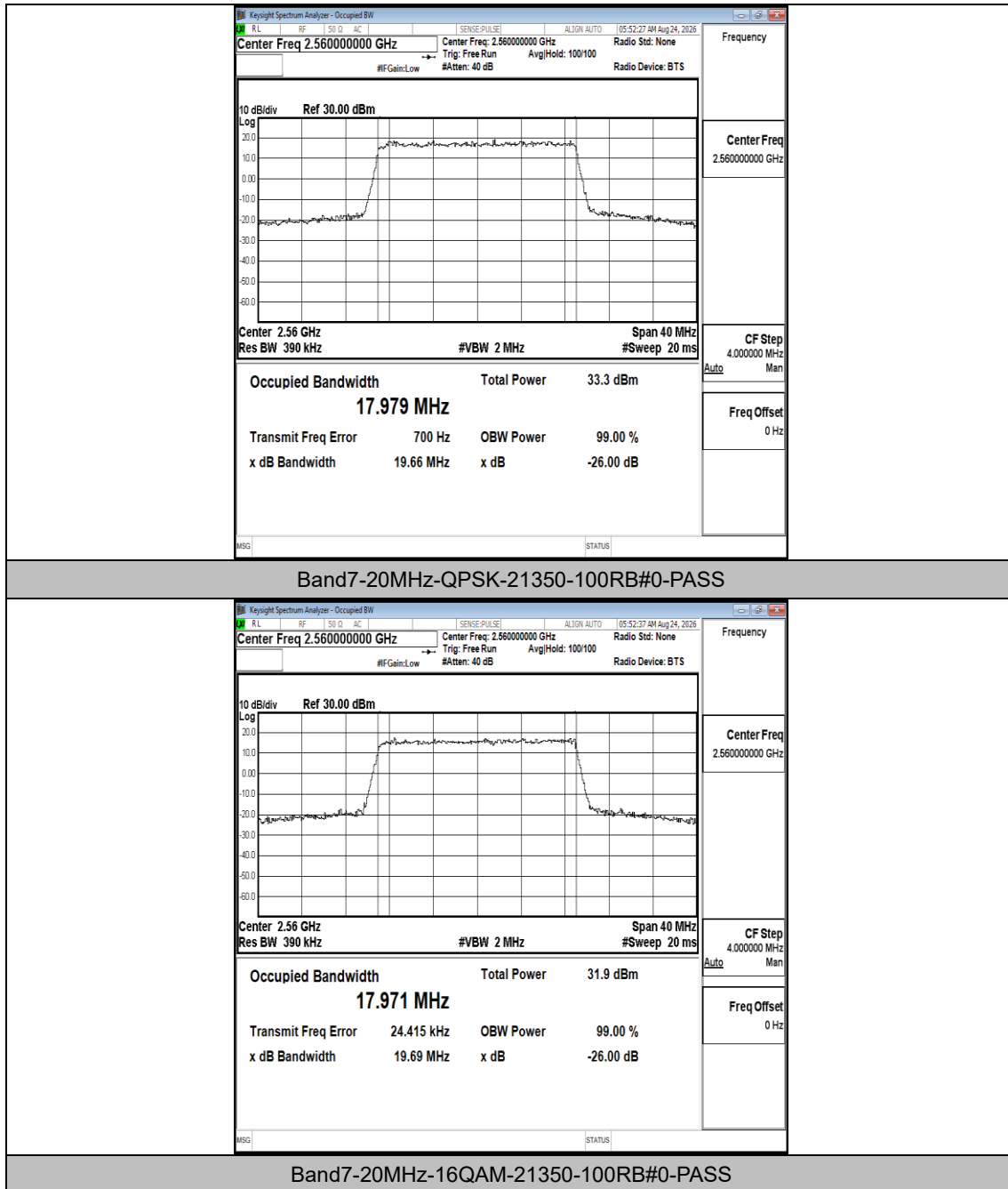












K.4 Band Edge

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Margin (dB)	Verdict
Band7	5MHz	QPSK	20775	25RB#0	-26.65	16.65	PASS
Band7	5MHz	16QAM	20775	25RB#0	-27.75	17.75	PASS
Band7	5MHz	QPSK	21425	25RB#0	-23.09	13.09	PASS
Band7	5MHz	16QAM	21425	25RB#0	-26.82	16.82	PASS
Band7	10MHz	QPSK	20800	50RB#0	-30.06	17.06	PASS
Band7	10MHz	16QAM	20800	50RB#0	-32.06	19.06	PASS
Band7	10MHz	QPSK	21400	50RB#0	-24.44	14.44	PASS
Band7	10MHz	16QAM	21400	50RB#0	-28.21	18.21	PASS
Band7	15MHz	QPSK	20825	75RB#0	-35.71	10.71	PASS
Band7	15MHz	16QAM	20825	75RB#0	-37.96	12.96	PASS
Band7	15MHz	QPSK	21375	75RB#0	-23.93	13.93	PASS
Band7	15MHz	16QAM	21375	75RB#0	-27.31	17.31	PASS
Band7	20MHz	QPSK	20850	100RB#0	-33.18	8.18	PASS
Band7	20MHz	16QAM	20850	100RB#0	-34.92	9.92	PASS
Band7	20MHz	QPSK	21350	100RB#0	-28.87	15.87	PASS
Band7	20MHz	16QAM	21350	100RB#0	-31.77	18.77	PASS

Test Graphs

