

Appendix K: Test Data for E-UTRA Band 7

Product Name: Smart Phone

Test Model: Air 1

Environmental Conditions

Temperature:	24.6°C
Relative Humidity:	53.3%
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	23.51	PASS
Band7	5MHz	QPSK	20775	1RB#12	23.24	PASS
Band7	5MHz	QPSK	20775	1RB#24	23.35	PASS
Band7	5MHz	QPSK	20775	12RB#0	22.46	PASS
Band7	5MHz	QPSK	20775	12RB#6	22.30	PASS
Band7	5MHz	QPSK	20775	12RB#13	22.38	PASS
Band7	5MHz	QPSK	20775	25RB#0	22.34	PASS
Band7	5MHz	16QAM	20775	1RB#0	22.72	PASS
Band7	5MHz	16QAM	20775	1RB#12	22.63	PASS
Band7	5MHz	16QAM	20775	1RB#24	22.63	PASS
Band7	5MHz	16QAM	20775	12RB#0	21.50	PASS
Band7	5MHz	16QAM	20775	12RB#6	21.46	PASS
Band7	5MHz	16QAM	20775	12RB#13	21.38	PASS
Band7	5MHz	16QAM	20775	25RB#0	21.33	PASS
Band7	5MHz	QPSK	21100	1RB#0	22.91	PASS
Band7	5MHz	QPSK	21100	1RB#12	22.70	PASS
Band7	5MHz	QPSK	21100	1RB#24	22.67	PASS
Band7	5MHz	QPSK	21100	12RB#0	21.65	PASS
Band7	5MHz	QPSK	21100	12RB#6	21.64	PASS
Band7	5MHz	QPSK	21100	12RB#13	21.63	PASS
Band7	5MHz	QPSK	21100	25RB#0	21.70	PASS
Band7	5MHz	16QAM	21100	1RB#0	21.79	PASS
Band7	5MHz	16QAM	21100	1RB#12	21.85	PASS
Band7	5MHz	16QAM	21100	1RB#24	21.68	PASS
Band7	5MHz	16QAM	21100	12RB#0	20.74	PASS
Band7	5MHz	16QAM	21100	12RB#6	20.67	PASS
Band7	5MHz	16QAM	21100	12RB#13	20.63	PASS
Band7	5MHz	16QAM	21100	25RB#0	20.73	PASS
Band7	5MHz	QPSK	21425	1RB#0	22.39	PASS
Band7	5MHz	QPSK	21425	1RB#12	22.38	PASS
Band7	5MHz	QPSK	21425	1RB#24	22.23	PASS
Band7	5MHz	QPSK	21425	12RB#0	21.25	PASS
Band7	5MHz	QPSK	21425	12RB#6	21.23	PASS
Band7	5MHz	QPSK	21425	12RB#13	21.26	PASS
Band7	5MHz	QPSK	21425	25RB#0	21.28	PASS
Band7	5MHz	16QAM	21425	1RB#0	21.36	PASS
Band7	5MHz	16QAM	21425	1RB#12	21.39	PASS

Band7	5MHz	16QAM	21425	1RB#24	21.29	PASS
Band7	5MHz	16QAM	21425	12RB#0	20.29	PASS
Band7	5MHz	16QAM	21425	12RB#6	20.31	PASS
Band7	5MHz	16QAM	21425	12RB#13	20.23	PASS
Band7	5MHz	16QAM	21425	25RB#0	20.24	PASS
Band7	10MHz	QPSK	20800	1RB#0	23.58	PASS
Band7	10MHz	QPSK	20800	1RB#24	23.25	PASS
Band7	10MHz	QPSK	20800	1RB#49	23.46	PASS
Band7	10MHz	QPSK	20800	25RB#0	22.37	PASS
Band7	10MHz	QPSK	20800	25RB#12	22.31	PASS
Band7	10MHz	QPSK	20800	25RB#25	22.34	PASS
Band7	10MHz	QPSK	20800	50RB#0	22.30	PASS
Band7	10MHz	16QAM	20800	1RB#0	22.81	PASS
Band7	10MHz	16QAM	20800	1RB#24	22.65	PASS
Band7	10MHz	16QAM	20800	1RB#49	22.80	PASS
Band7	10MHz	16QAM	20800	25RB#0	21.41	PASS
Band7	10MHz	16QAM	20800	25RB#12	21.27	PASS
Band7	10MHz	16QAM	20800	25RB#25	21.35	PASS
Band7	10MHz	16QAM	20800	50RB#0	21.28	PASS
Band7	10MHz	QPSK	21100	1RB#0	23.10	PASS
Band7	10MHz	QPSK	21100	1RB#24	22.78	PASS
Band7	10MHz	QPSK	21100	1RB#49	22.74	PASS
Band7	10MHz	QPSK	21100	25RB#0	21.82	PASS
Band7	10MHz	QPSK	21100	25RB#12	21.68	PASS
Band7	10MHz	QPSK	21100	25RB#25	21.63	PASS
Band7	10MHz	QPSK	21100	50RB#0	21.70	PASS
Band7	10MHz	16QAM	21100	1RB#0	22.22	PASS
Band7	10MHz	16QAM	21100	1RB#24	22.13	PASS
Band7	10MHz	16QAM	21100	1RB#49	21.86	PASS
Band7	10MHz	16QAM	21100	25RB#0	20.81	PASS
Band7	10MHz	16QAM	21100	25RB#12	20.70	PASS
Band7	10MHz	16QAM	21100	25RB#25	20.61	PASS
Band7	10MHz	16QAM	21100	50RB#0	20.69	PASS
Band7	10MHz	QPSK	21400	1RB#0	22.47	PASS
Band7	10MHz	QPSK	21400	1RB#24	22.14	PASS
Band7	10MHz	QPSK	21400	1RB#49	22.32	PASS
Band7	10MHz	QPSK	21400	25RB#0	21.23	PASS
Band7	10MHz	QPSK	21400	25RB#12	21.23	PASS
Band7	10MHz	QPSK	21400	25RB#25	21.20	PASS
Band7	10MHz	QPSK	21400	50RB#0	21.33	PASS
Band7	10MHz	16QAM	21400	1RB#0	21.74	PASS
Band7	10MHz	16QAM	21400	1RB#24	21.61	PASS

Band7	10MHz	16QAM	21400	1RB#49	21.54	PASS
Band7	10MHz	16QAM	21400	25RB#0	20.23	PASS
Band7	10MHz	16QAM	21400	25RB#12	20.27	PASS
Band7	10MHz	16QAM	21400	25RB#25	20.15	PASS
Band7	10MHz	16QAM	21400	50RB#0	20.23	PASS
Band7	15MHz	QPSK	20825	1RB#0	23.40	PASS
Band7	15MHz	QPSK	20825	1RB#38	23.37	PASS
Band7	15MHz	QPSK	20825	1RB#74	23.36	PASS
Band7	15MHz	QPSK	20825	38RB#0	22.51	PASS
Band7	15MHz	QPSK	20825	38RB#18	22.54	PASS
Band7	15MHz	QPSK	20825	38RB#37	22.43	PASS
Band7	15MHz	QPSK	20825	75RB#0	22.40	PASS
Band7	15MHz	16QAM	20825	1RB#0	22.79	PASS
Band7	15MHz	16QAM	20825	1RB#38	22.72	PASS
Band7	15MHz	16QAM	20825	1RB#74	22.72	PASS
Band7	15MHz	16QAM	20825	38RB#0	21.53	PASS
Band7	15MHz	16QAM	20825	38RB#18	21.62	PASS
Band7	15MHz	16QAM	20825	38RB#37	21.44	PASS
Band7	15MHz	16QAM	20825	75RB#0	21.39	PASS
Band7	15MHz	QPSK	21100	1RB#0	22.95	PASS
Band7	15MHz	QPSK	21100	1RB#38	22.69	PASS
Band7	15MHz	QPSK	21100	1RB#74	22.57	PASS
Band7	15MHz	QPSK	21100	38RB#0	21.90	PASS
Band7	15MHz	QPSK	21100	38RB#18	21.84	PASS
Band7	15MHz	QPSK	21100	38RB#37	21.78	PASS
Band7	15MHz	QPSK	21100	75RB#0	21.84	PASS
Band7	15MHz	16QAM	21100	1RB#0	22.26	PASS
Band7	15MHz	16QAM	21100	1RB#38	22.18	PASS
Band7	15MHz	16QAM	21100	1RB#74	21.85	PASS
Band7	15MHz	16QAM	21100	38RB#0	20.90	PASS
Band7	15MHz	16QAM	21100	38RB#18	20.82	PASS
Band7	15MHz	16QAM	21100	38RB#37	20.78	PASS
Band7	15MHz	16QAM	21100	75RB#0	20.76	PASS
Band7	15MHz	QPSK	21375	1RB#0	22.50	PASS
Band7	15MHz	QPSK	21375	1RB#38	22.21	PASS
Band7	15MHz	QPSK	21375	1RB#74	22.24	PASS
Band7	15MHz	QPSK	21375	38RB#0	21.43	PASS
Band7	15MHz	QPSK	21375	38RB#18	21.39	PASS
Band7	15MHz	QPSK	21375	38RB#37	21.47	PASS
Band7	15MHz	QPSK	21375	75RB#0	21.40	PASS
Band7	15MHz	16QAM	21375	1RB#0	21.72	PASS
Band7	15MHz	16QAM	21375	1RB#38	21.64	PASS

Band7	15MHz	16QAM	21375	1RB#74	21.60	PASS
Band7	15MHz	16QAM	21375	38RB#0	20.49	PASS
Band7	15MHz	16QAM	21375	38RB#18	20.36	PASS
Band7	15MHz	16QAM	21375	38RB#37	20.32	PASS
Band7	15MHz	16QAM	21375	75RB#0	20.34	PASS
Band7	20MHz	QPSK	20850	1RB#0	23.53	PASS
Band7	20MHz	QPSK	20850	1RB#49	23.57	PASS
Band7	20MHz	QPSK	20850	1RB#99	23.35	PASS
Band7	20MHz	QPSK	20850	50RB#0	22.44	PASS
Band7	20MHz	QPSK	20850	50RB#25	22.48	PASS
Band7	20MHz	QPSK	20850	50RB#50	22.34	PASS
Band7	20MHz	QPSK	20850	100RB#0	22.45	PASS
Band7	20MHz	16QAM	20850	1RB#0	22.64	PASS
Band7	20MHz	16QAM	20850	1RB#49	22.64	PASS
Band7	20MHz	16QAM	20850	1RB#99	22.46	PASS
Band7	20MHz	16QAM	20850	50RB#0	21.45	PASS
Band7	20MHz	16QAM	20850	50RB#25	21.50	PASS
Band7	20MHz	16QAM	20850	50RB#50	21.31	PASS
Band7	20MHz	16QAM	20850	100RB#0	21.46	PASS
Band7	20MHz	QPSK	21100	1RB#0	23.07	PASS
Band7	20MHz	QPSK	21100	1RB#49	22.94	PASS
Band7	20MHz	QPSK	21100	1RB#99	22.76	PASS
Band7	20MHz	QPSK	21100	50RB#0	21.99	PASS
Band7	20MHz	QPSK	21100	50RB#25	21.84	PASS
Band7	20MHz	QPSK	21100	50RB#50	21.69	PASS
Band7	20MHz	QPSK	21100	100RB#0	21.84	PASS
Band7	20MHz	16QAM	21100	1RB#0	22.33	PASS
Band7	20MHz	16QAM	21100	1RB#49	22.32	PASS
Band7	20MHz	16QAM	21100	1RB#99	21.92	PASS
Band7	20MHz	16QAM	21100	50RB#0	20.95	PASS
Band7	20MHz	16QAM	21100	50RB#25	20.86	PASS
Band7	20MHz	16QAM	21100	50RB#50	20.73	PASS
Band7	20MHz	16QAM	21100	100RB#0	20.77	PASS
Band7	20MHz	QPSK	21350	1RB#0	22.58	PASS
Band7	20MHz	QPSK	21350	1RB#49	22.43	PASS
Band7	20MHz	QPSK	21350	1RB#99	22.29	PASS
Band7	20MHz	QPSK	21350	50RB#0	21.44	PASS
Band7	20MHz	QPSK	21350	50RB#25	21.45	PASS
Band7	20MHz	QPSK	21350	50RB#50	21.39	PASS
Band7	20MHz	QPSK	21350	100RB#0	21.38	PASS
Band7	20MHz	16QAM	21350	1RB#0	21.62	PASS
Band7	20MHz	16QAM	21350	1RB#49	21.50	PASS

Band7	20MHz	16QAM	21350	1RB#99	21.52	PASS
Band7	20MHz	16QAM	21350	50RB#0	20.44	PASS
Band7	20MHz	16QAM	21350	50RB#25	20.40	PASS
Band7	20MHz	16QAM	21350	50RB#50	20.43	PASS
Band7	20MHz	16QAM	21350	100RB#0	20.47	PASS

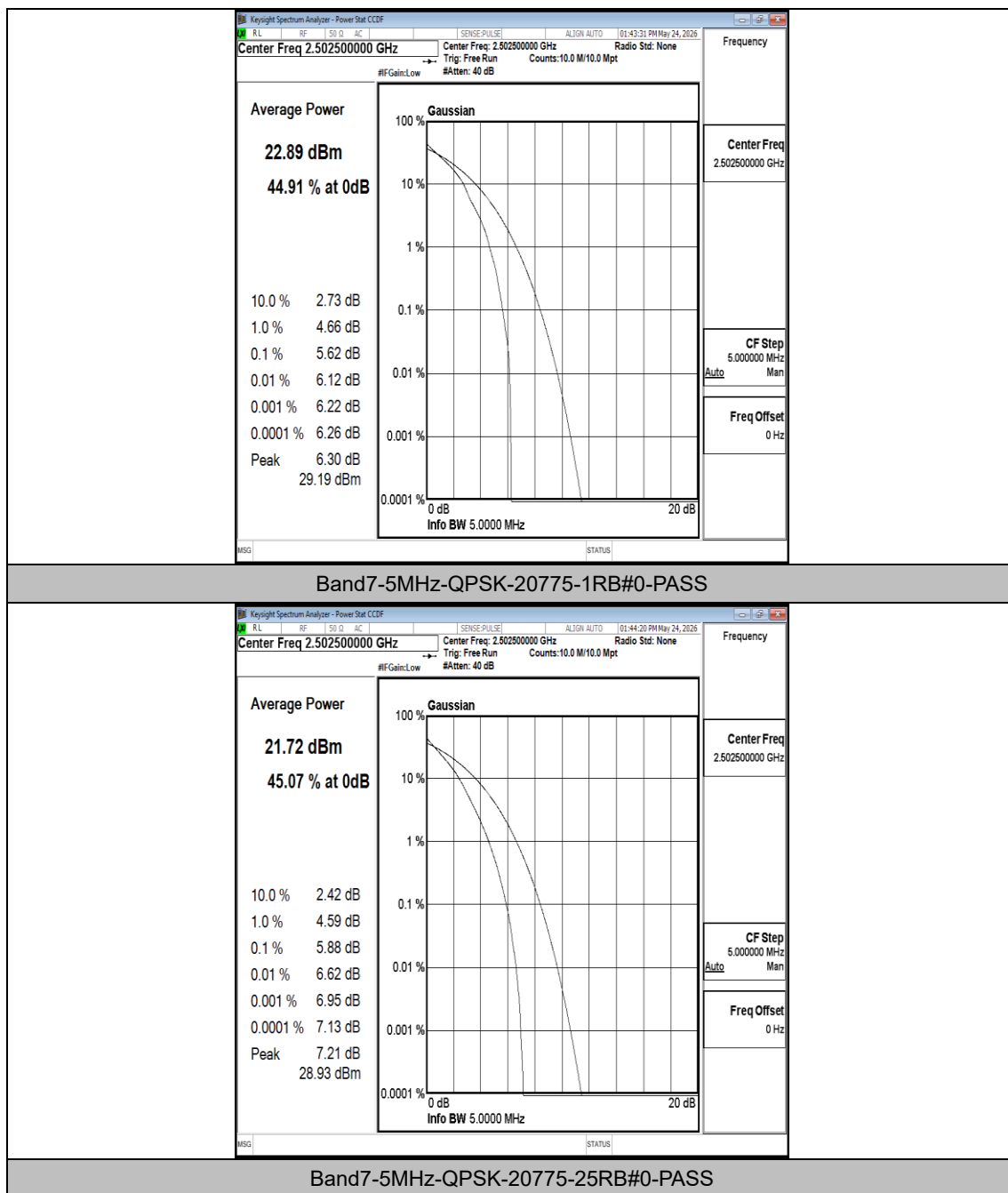
K.2 Peak-to-Average Ratio(CCDF)

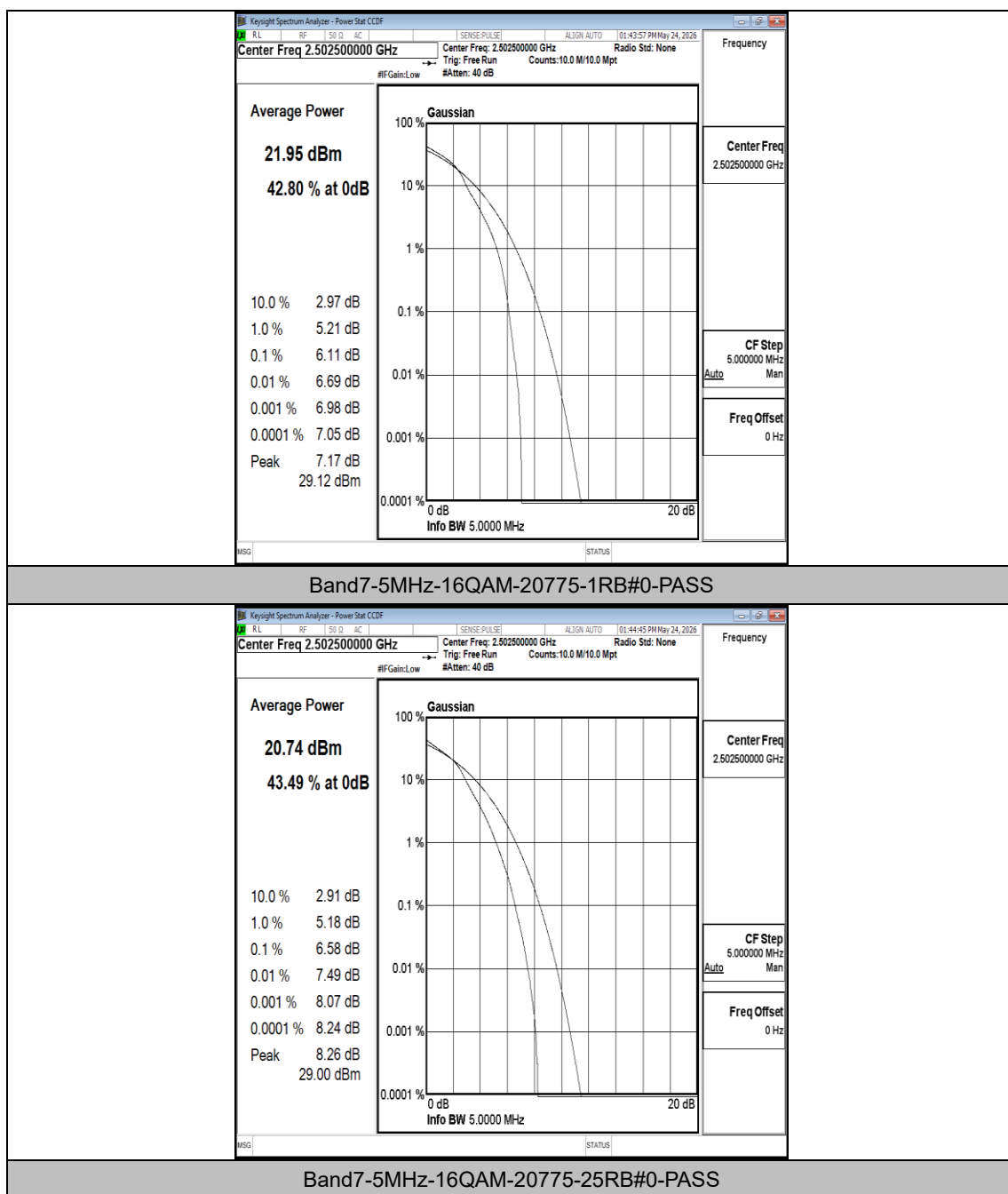
Test Result

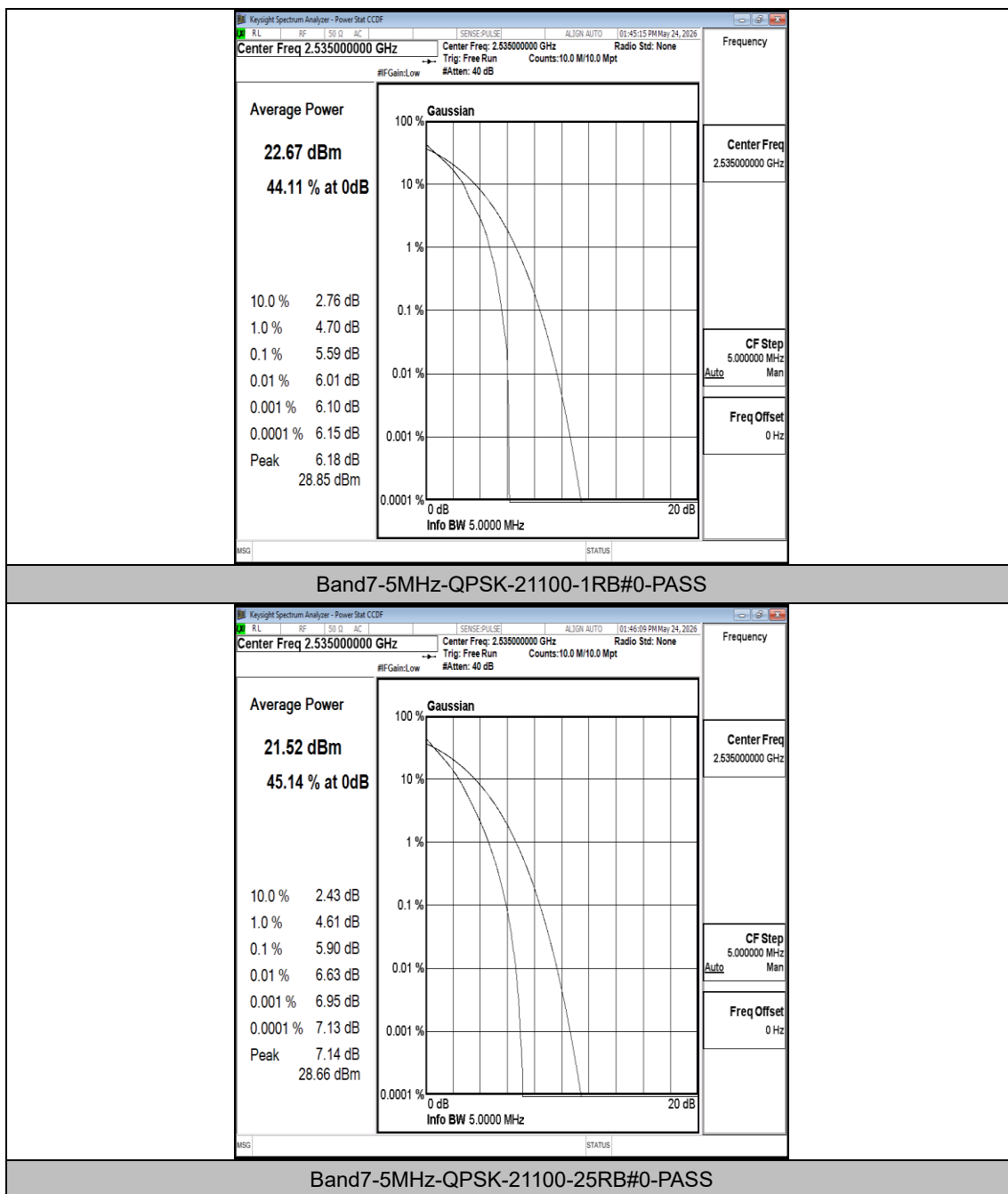
Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band7	5MHz	QPSK	20775	1RB#0	5.62	13	PASS
Band7	5MHz	QPSK	20775	25RB#0	5.88	13	PASS
Band7	5MHz	16QAM	20775	1RB#0	6.11	13	PASS
Band7	5MHz	16QAM	20775	25RB#0	6.58	13	PASS
Band7	5MHz	QPSK	21100	1RB#0	5.59	13	PASS
Band7	5MHz	QPSK	21100	25RB#0	5.90	13	PASS
Band7	5MHz	16QAM	21100	1RB#0	6.13	13	PASS
Band7	5MHz	16QAM	21100	25RB#0	6.60	13	PASS
Band7	5MHz	QPSK	21425	1RB#0	5.18	13	PASS
Band7	5MHz	QPSK	21425	25RB#0	5.72	13	PASS
Band7	5MHz	16QAM	21425	1RB#0	5.81	13	PASS
Band7	5MHz	16QAM	21425	25RB#0	6.43	13	PASS
Band7	10MHz	QPSK	20800	1RB#0	5.45	13	PASS
Band7	10MHz	QPSK	20800	50RB#0	5.75	13	PASS
Band7	10MHz	16QAM	20800	1RB#0	6.33	13	PASS
Band7	10MHz	16QAM	20800	50RB#0	6.53	13	PASS
Band7	10MHz	QPSK	21100	1RB#0	5.37	13	PASS
Band7	10MHz	QPSK	21100	50RB#0	5.73	13	PASS
Band7	10MHz	16QAM	21100	1RB#0	6.16	13	PASS
Band7	10MHz	16QAM	21100	50RB#0	6.54	13	PASS
Band7	10MHz	QPSK	21400	1RB#0	5.23	13	PASS
Band7	10MHz	QPSK	21400	50RB#0	5.57	13	PASS
Band7	10MHz	16QAM	21400	1RB#0	6.01	13	PASS
Band7	10MHz	16QAM	21400	50RB#0	6.42	13	PASS
Band7	15MHz	QPSK	20825	1RB#0	5.49	13	PASS
Band7	15MHz	QPSK	20825	75RB#0	6.08	13	PASS
Band7	15MHz	16QAM	20825	1RB#0	6.36	13	PASS
Band7	15MHz	16QAM	20825	75RB#0	6.56	13	PASS
Band7	15MHz	QPSK	21100	1RB#0	5.39	13	PASS
Band7	15MHz	QPSK	21100	75RB#0	6.03	13	PASS
Band7	15MHz	16QAM	21100	1RB#0	6.21	13	PASS
Band7	15MHz	16QAM	21100	75RB#0	6.53	13	PASS
Band7	15MHz	QPSK	21375	1RB#0	5.51	13	PASS
Band7	15MHz	QPSK	21375	75RB#0	5.83	13	PASS
Band7	15MHz	16QAM	21375	1RB#0	6.34	13	PASS
Band7	15MHz	16QAM	21375	75RB#0	6.42	13	PASS
Band7	20MHz	QPSK	20850	1RB#0	5.34	13	PASS

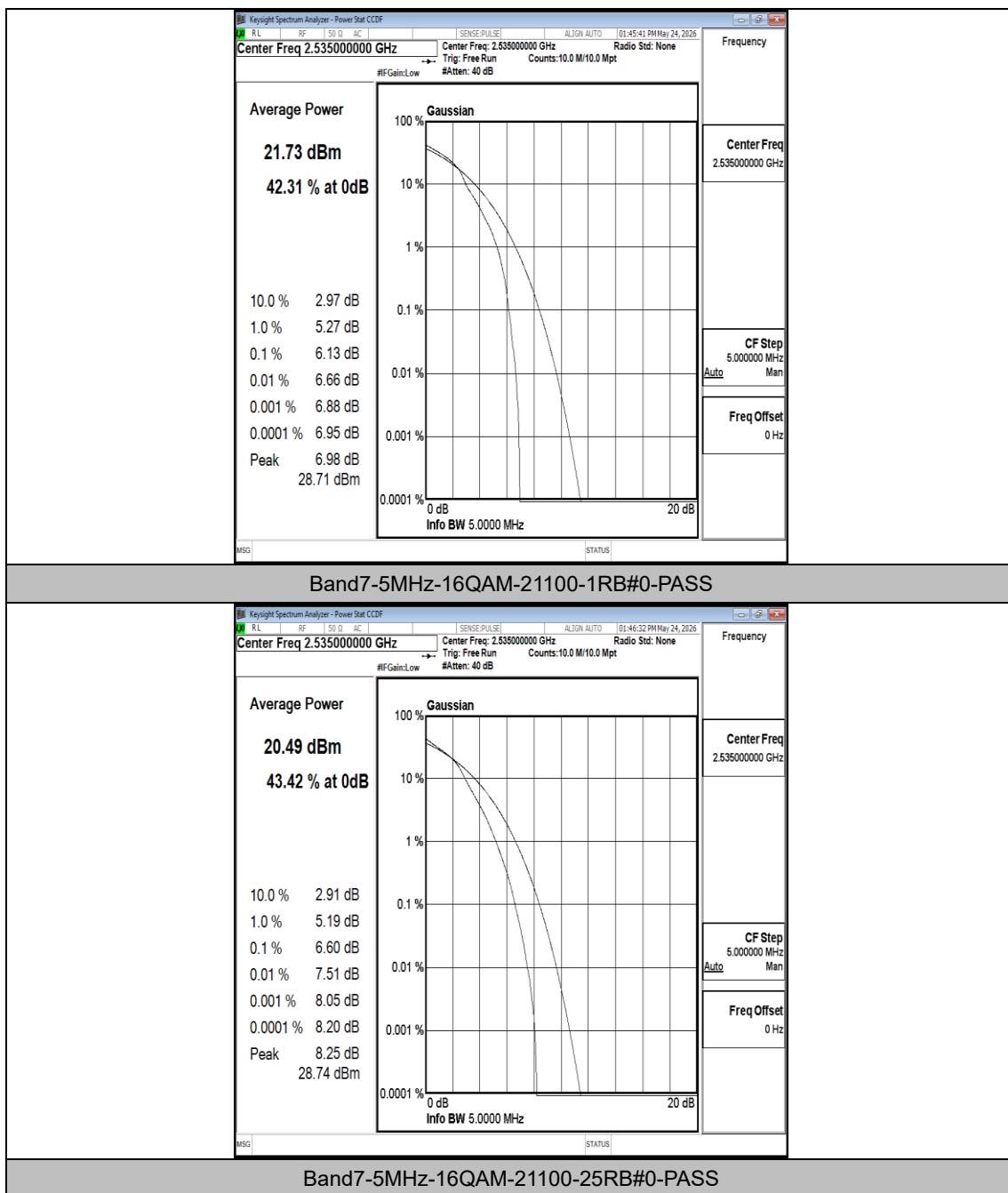
Band7	20MHz	QPSK	20850	100RB#0	5.67	13	PASS
Band7	20MHz	16QAM	20850	1RB#0	5.88	13	PASS
Band7	20MHz	16QAM	20850	100RB#0	6.50	13	PASS
Band7	20MHz	QPSK	21100	1RB#0	5.24	13	PASS
Band7	20MHz	QPSK	21100	100RB#0	5.61	13	PASS
Band7	20MHz	16QAM	21100	1RB#0	5.84	13	PASS
Band7	20MHz	16QAM	21100	100RB#0	6.43	13	PASS
Band7	20MHz	QPSK	21350	1RB#0	5.44	13	PASS
Band7	20MHz	QPSK	21350	100RB#0	5.40	13	PASS
Band7	20MHz	16QAM	21350	1RB#0	5.97	13	PASS
Band7	20MHz	16QAM	21350	100RB#0	6.34	13	PASS

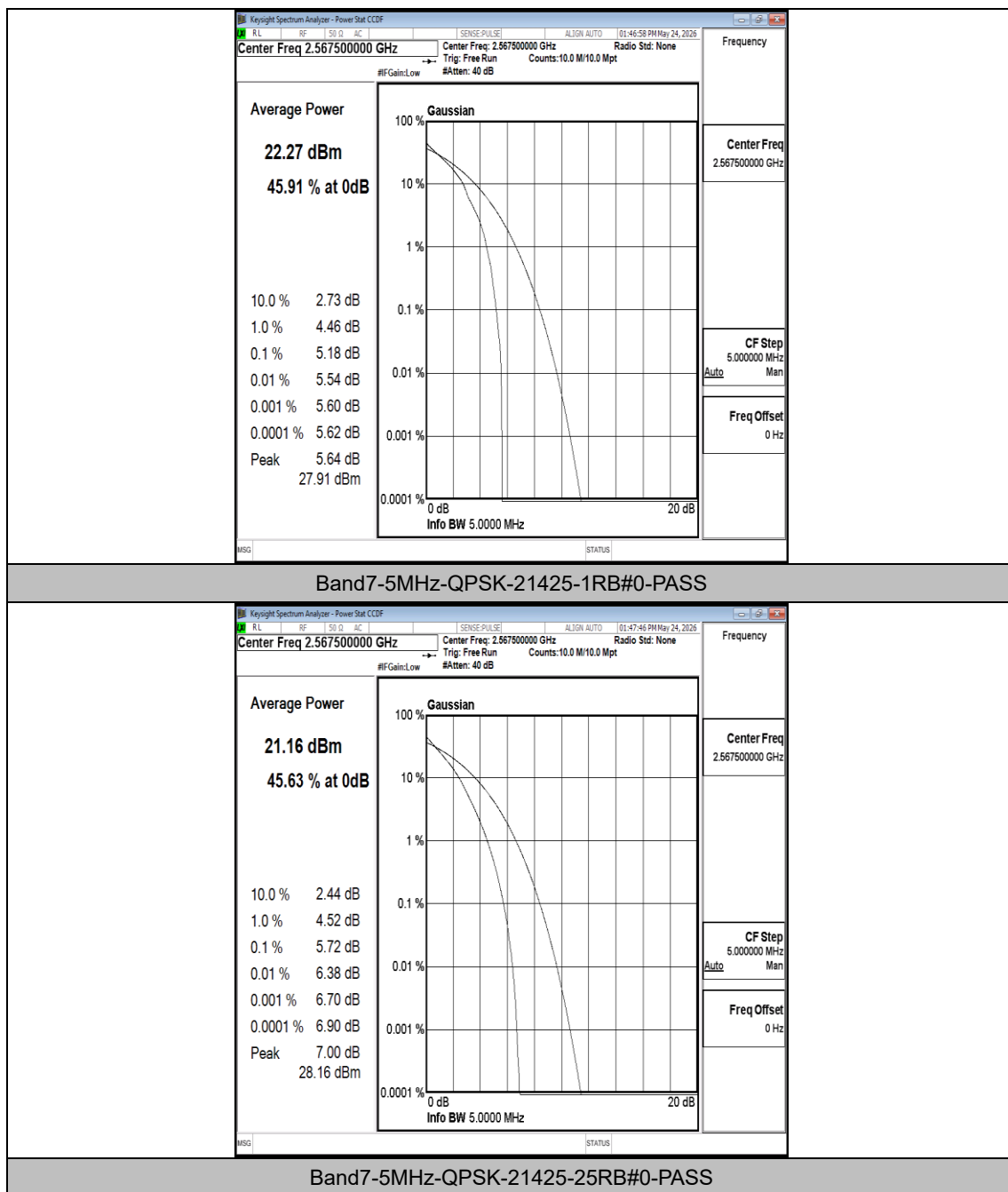
Test Graphs

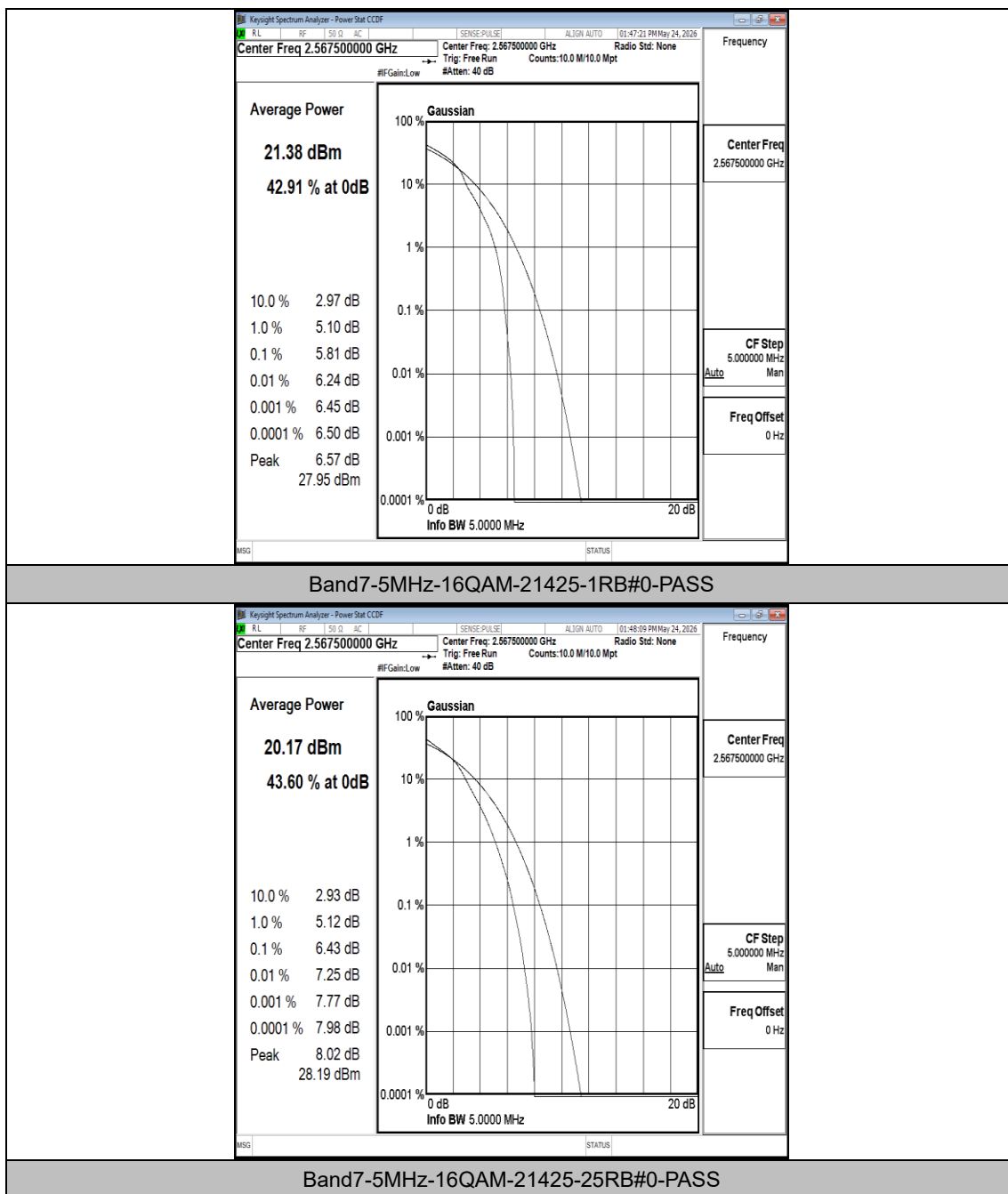


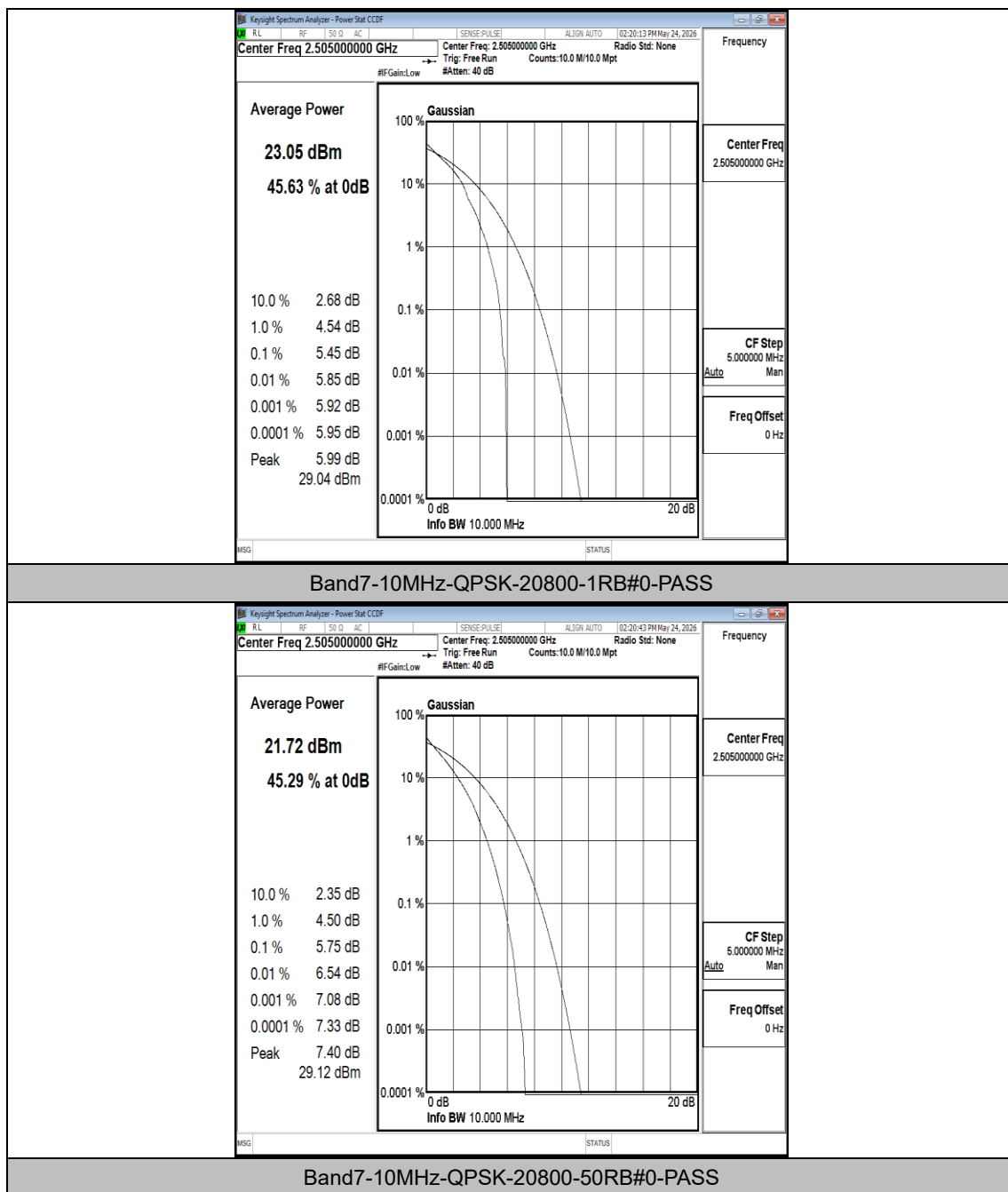


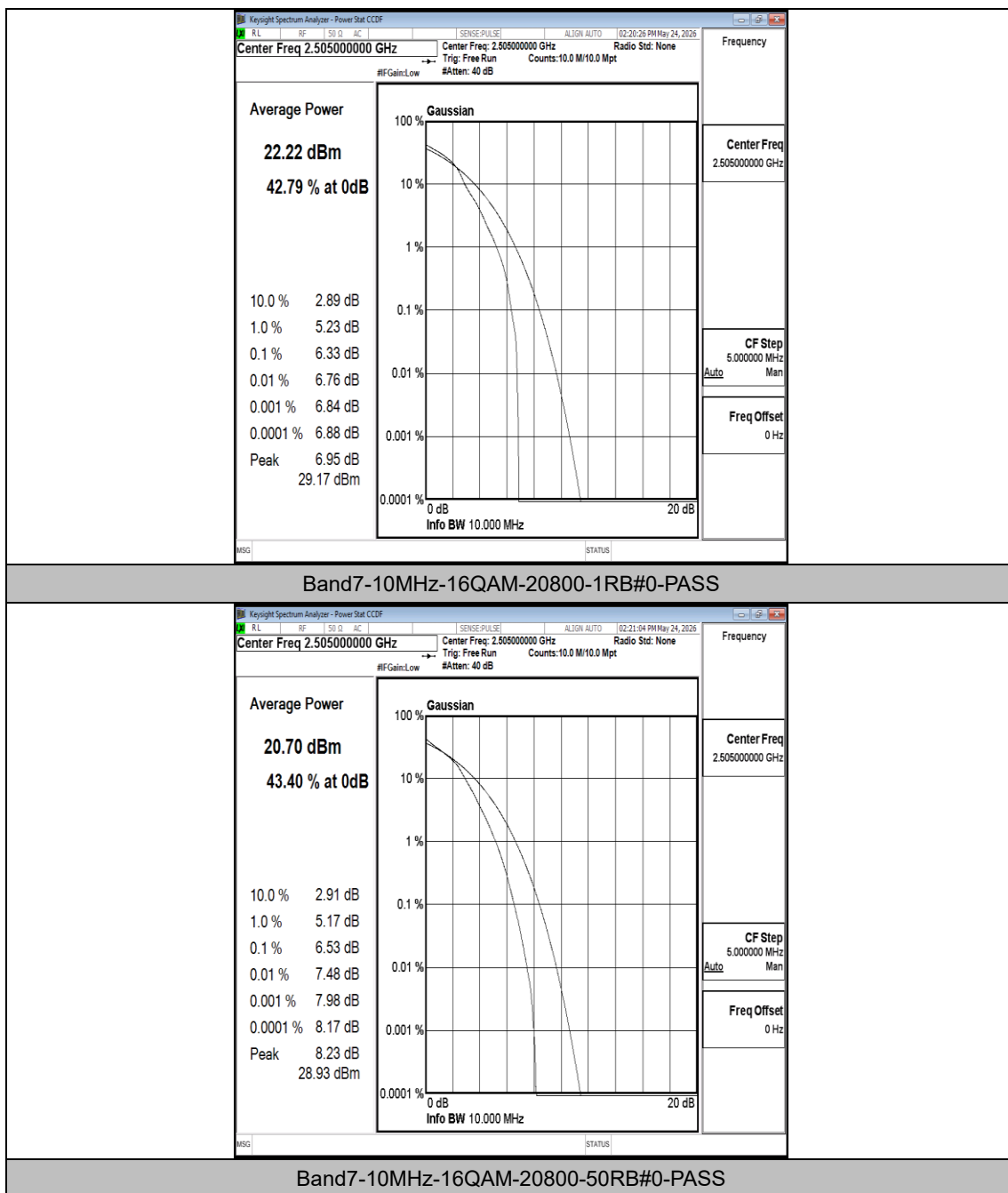


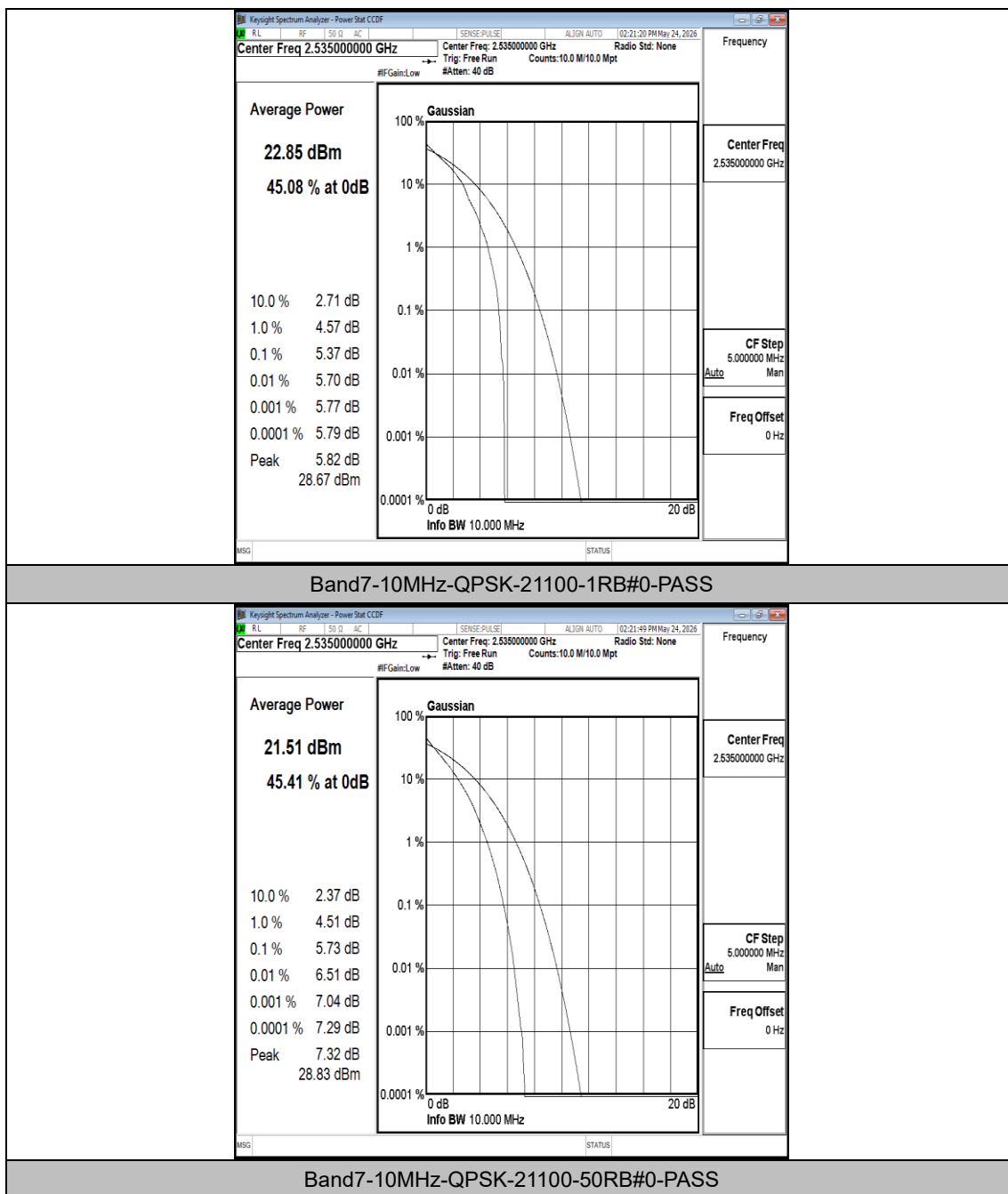


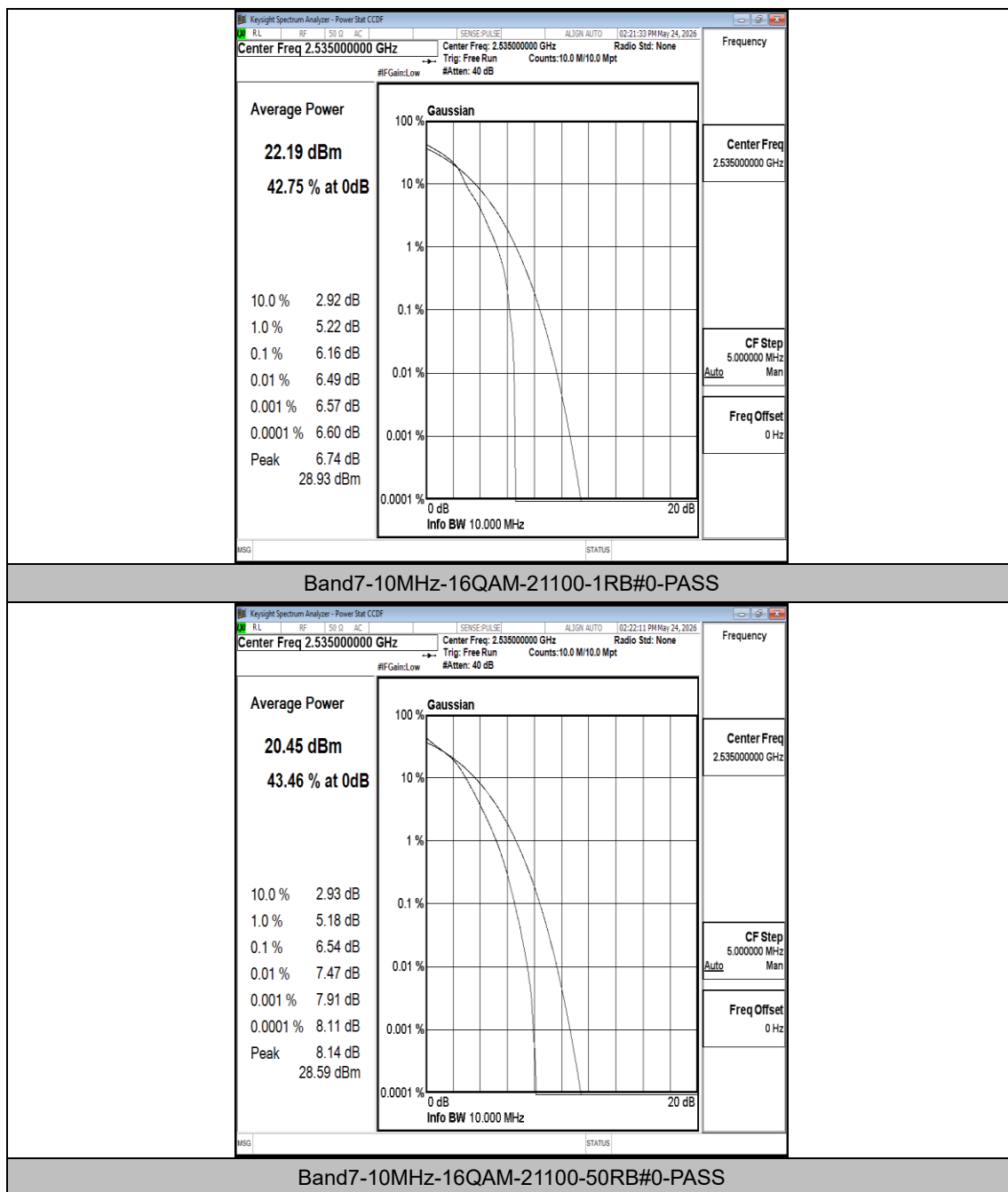


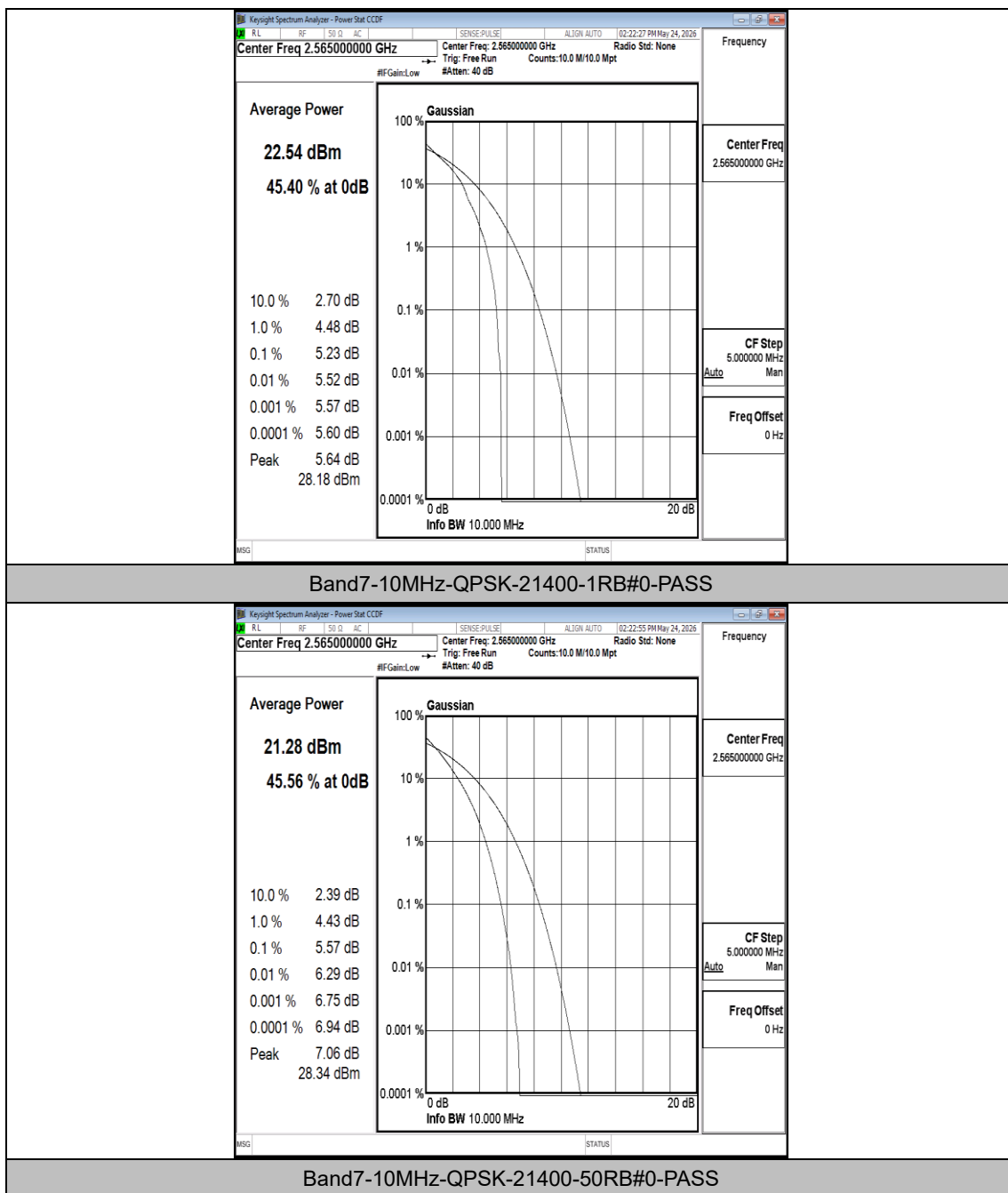


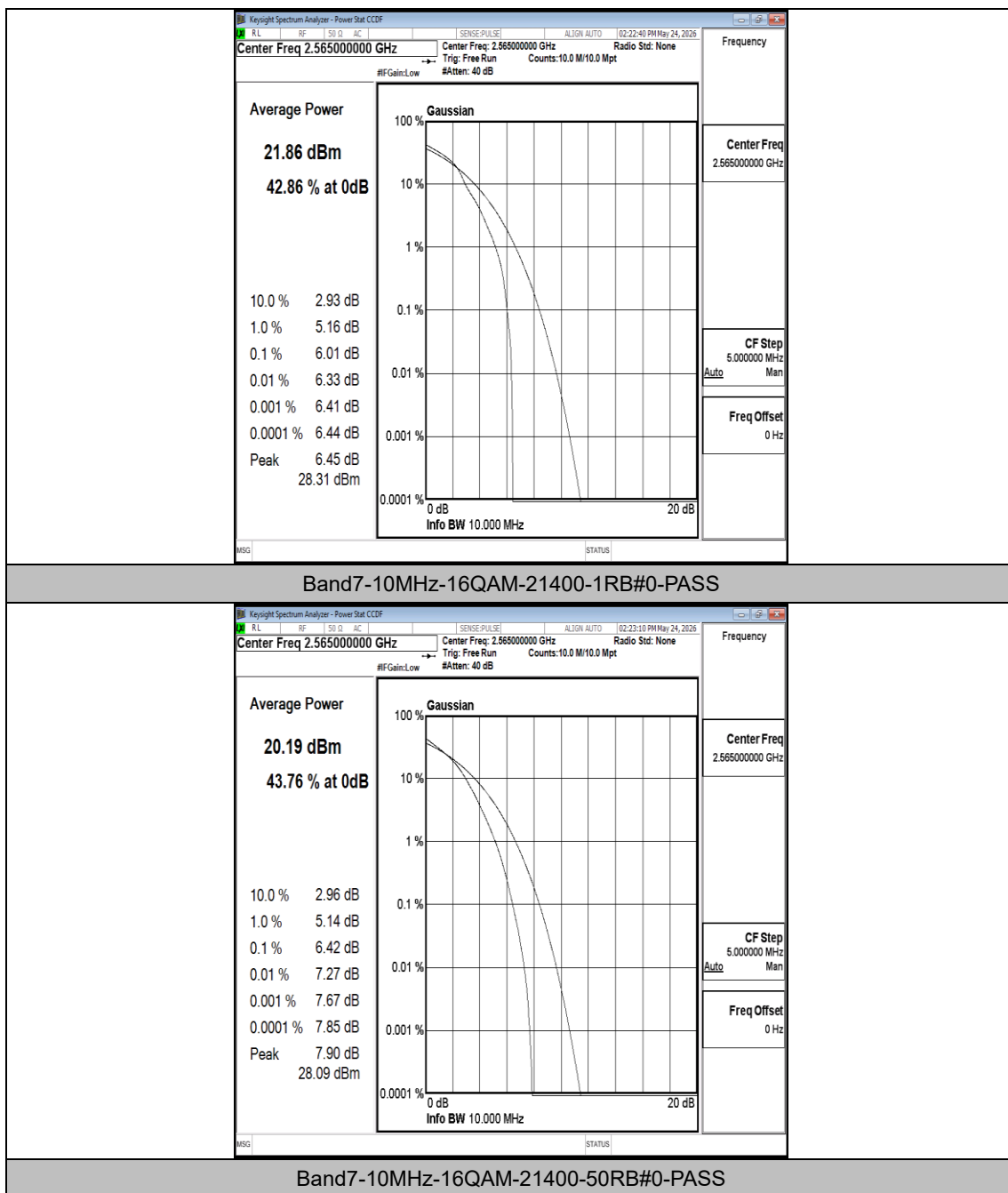


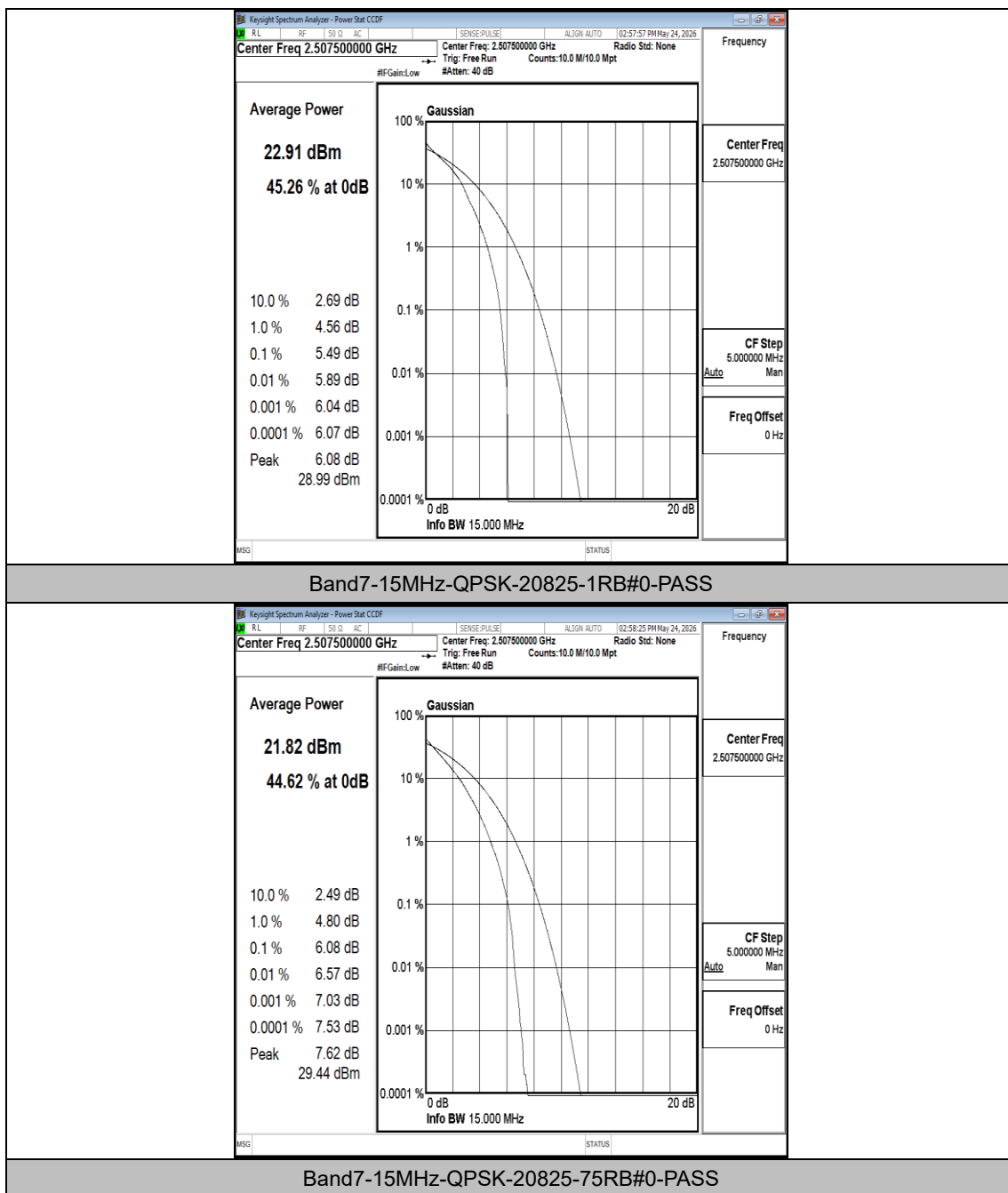


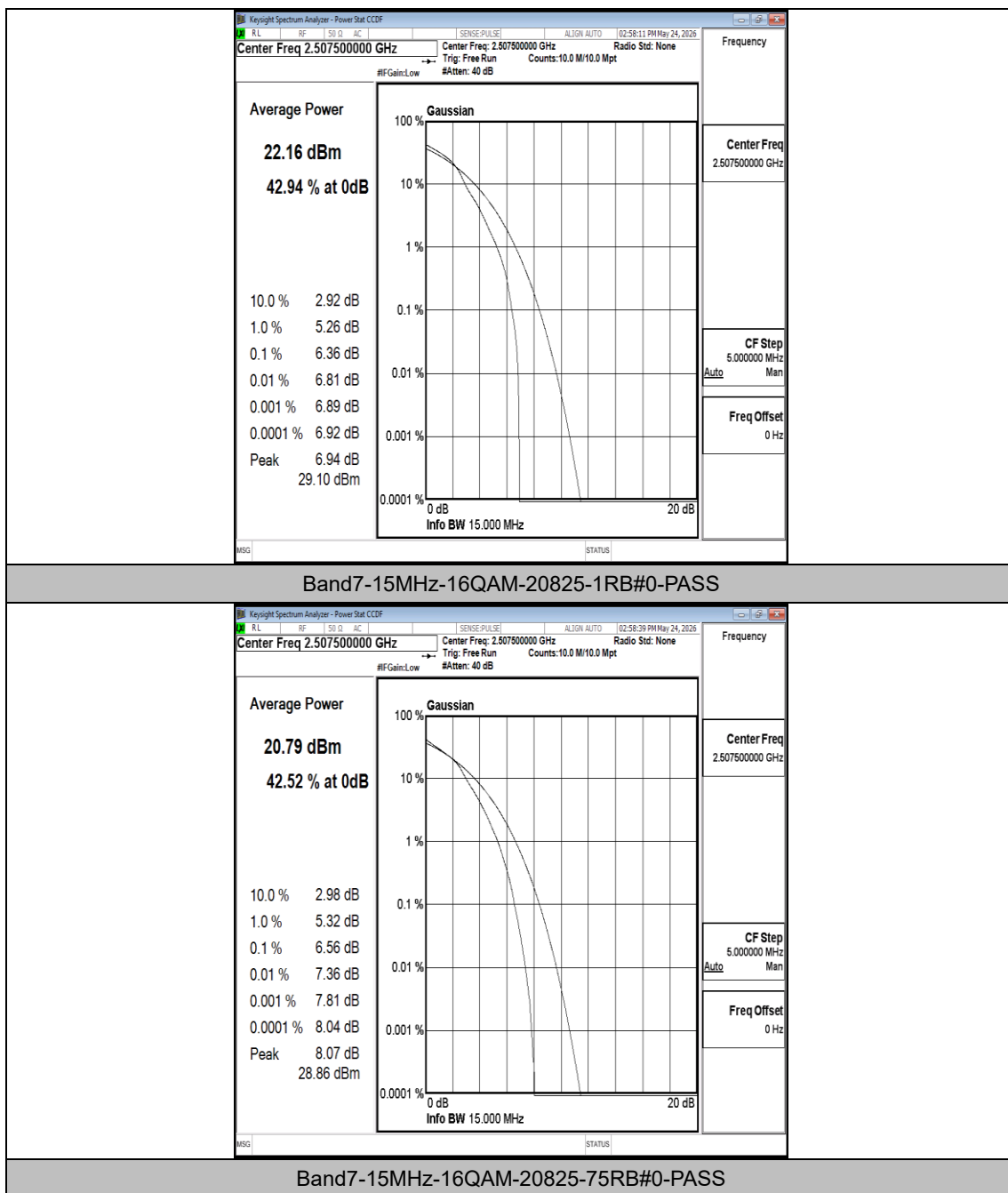


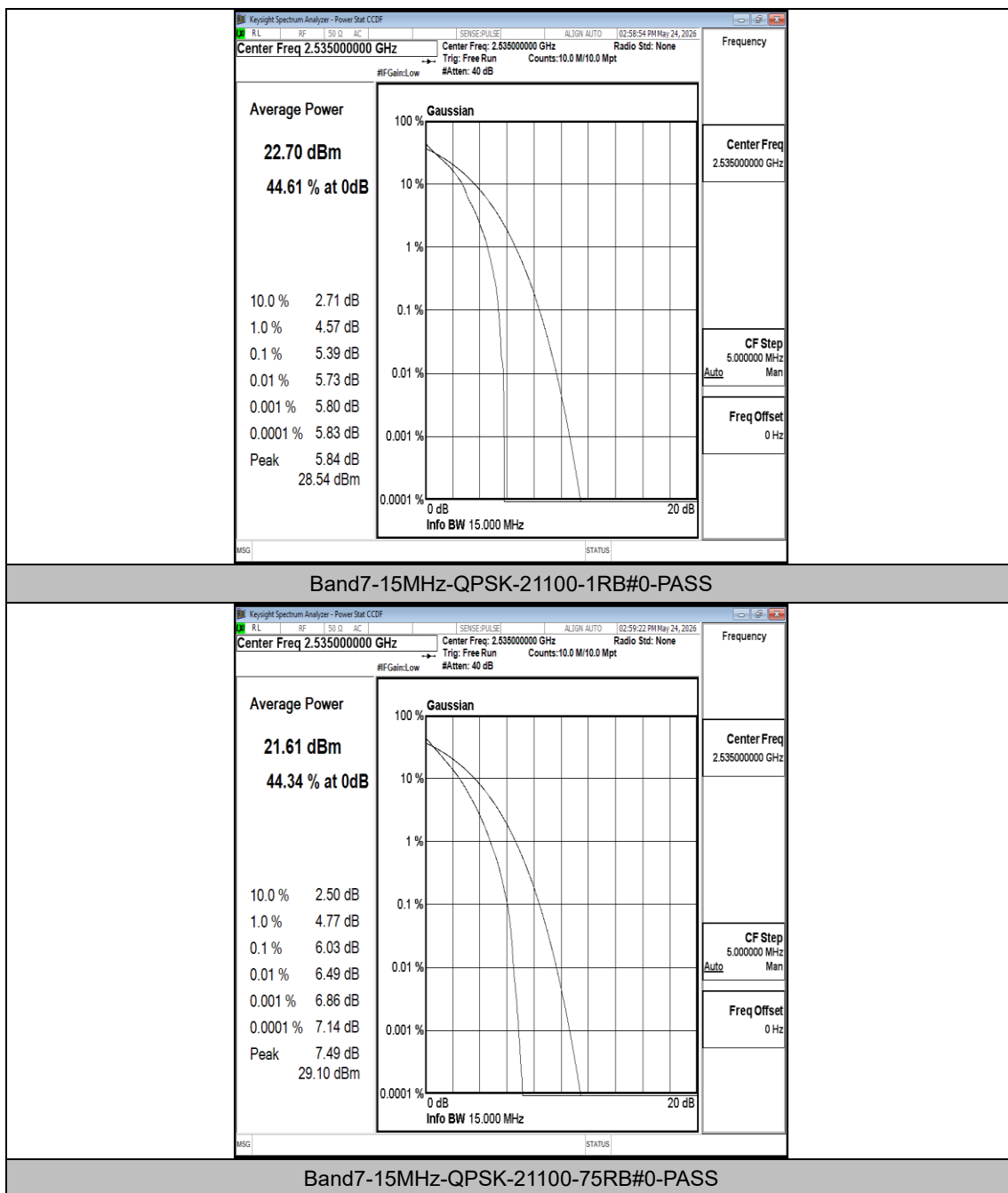


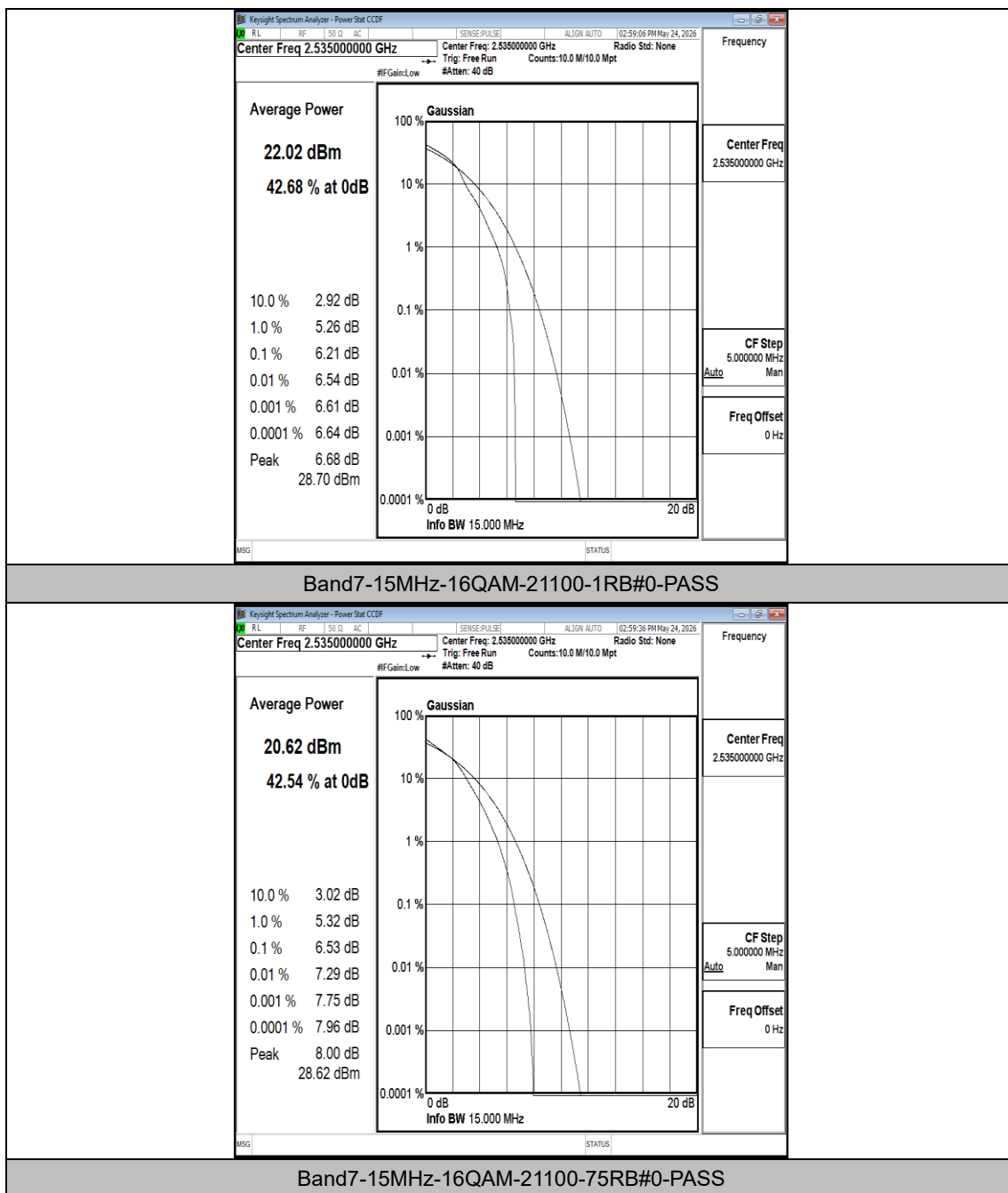


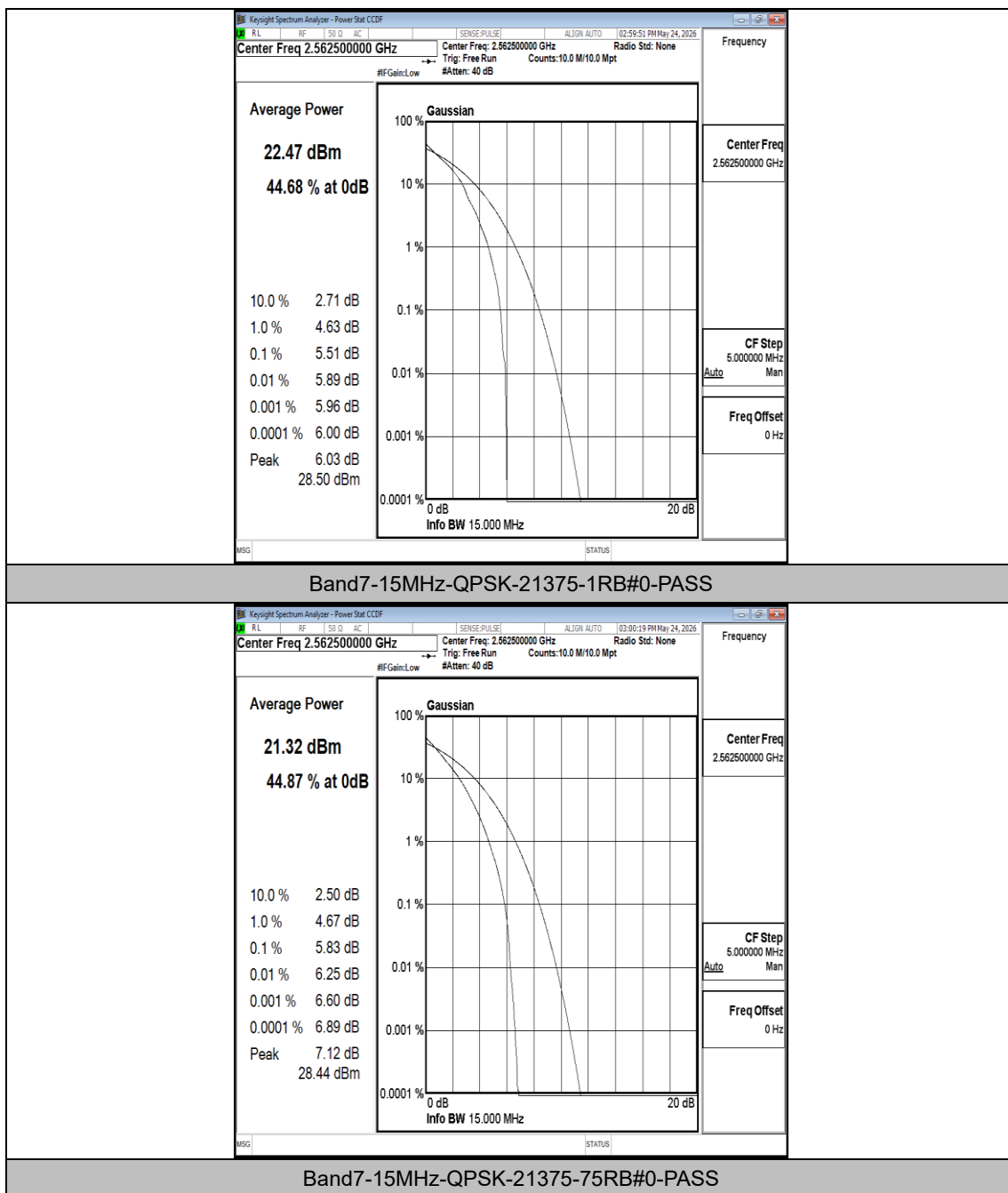


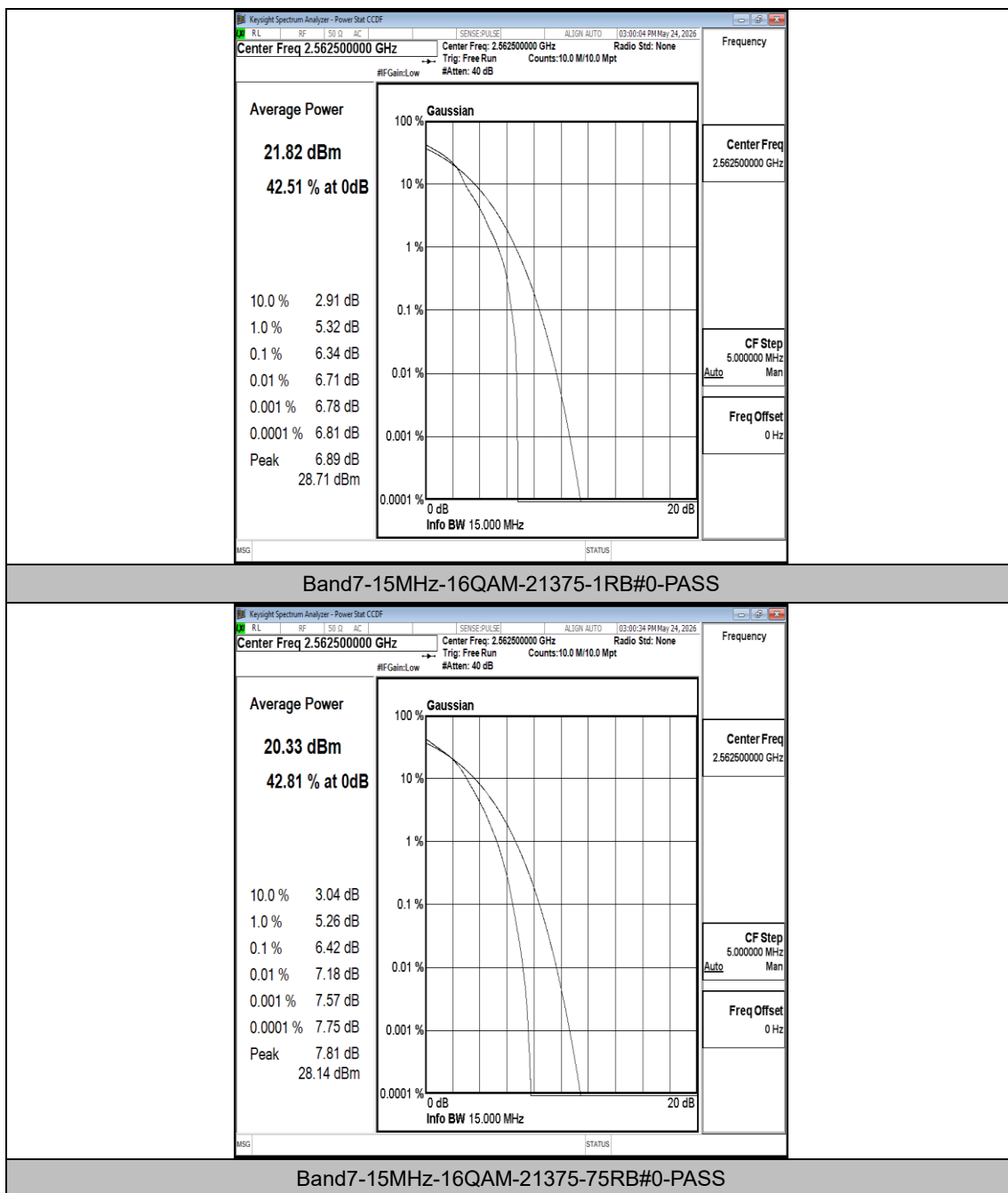


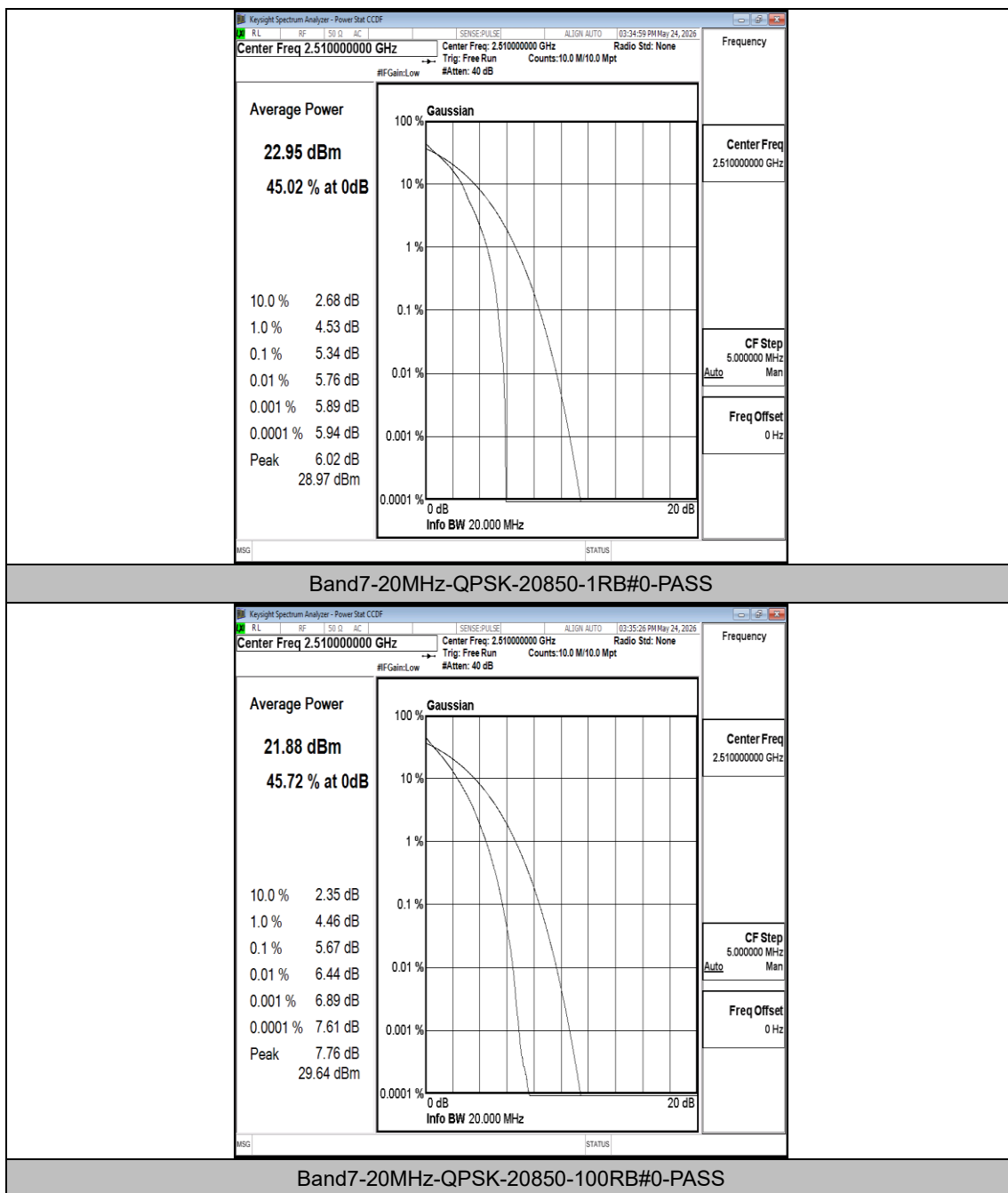


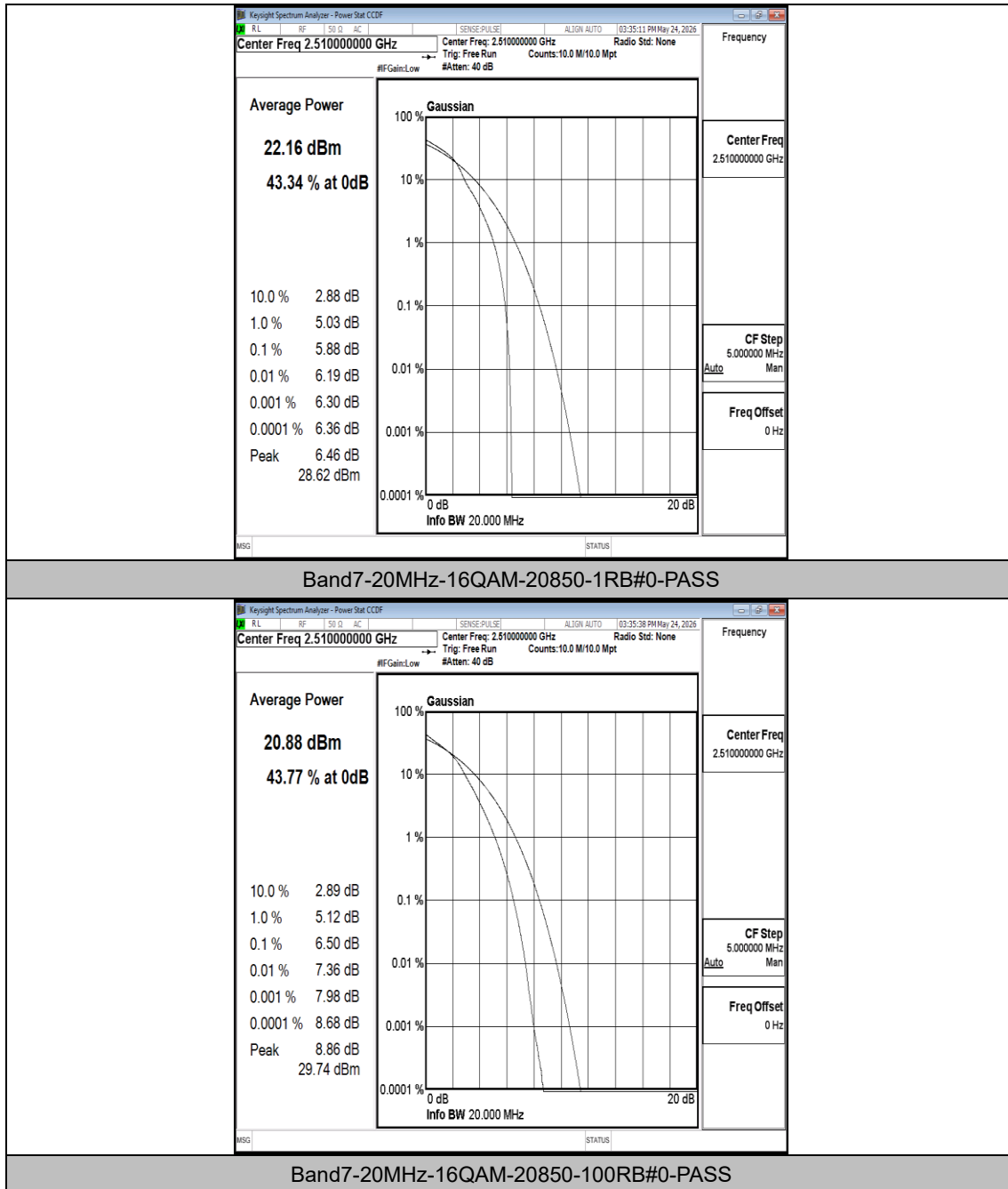


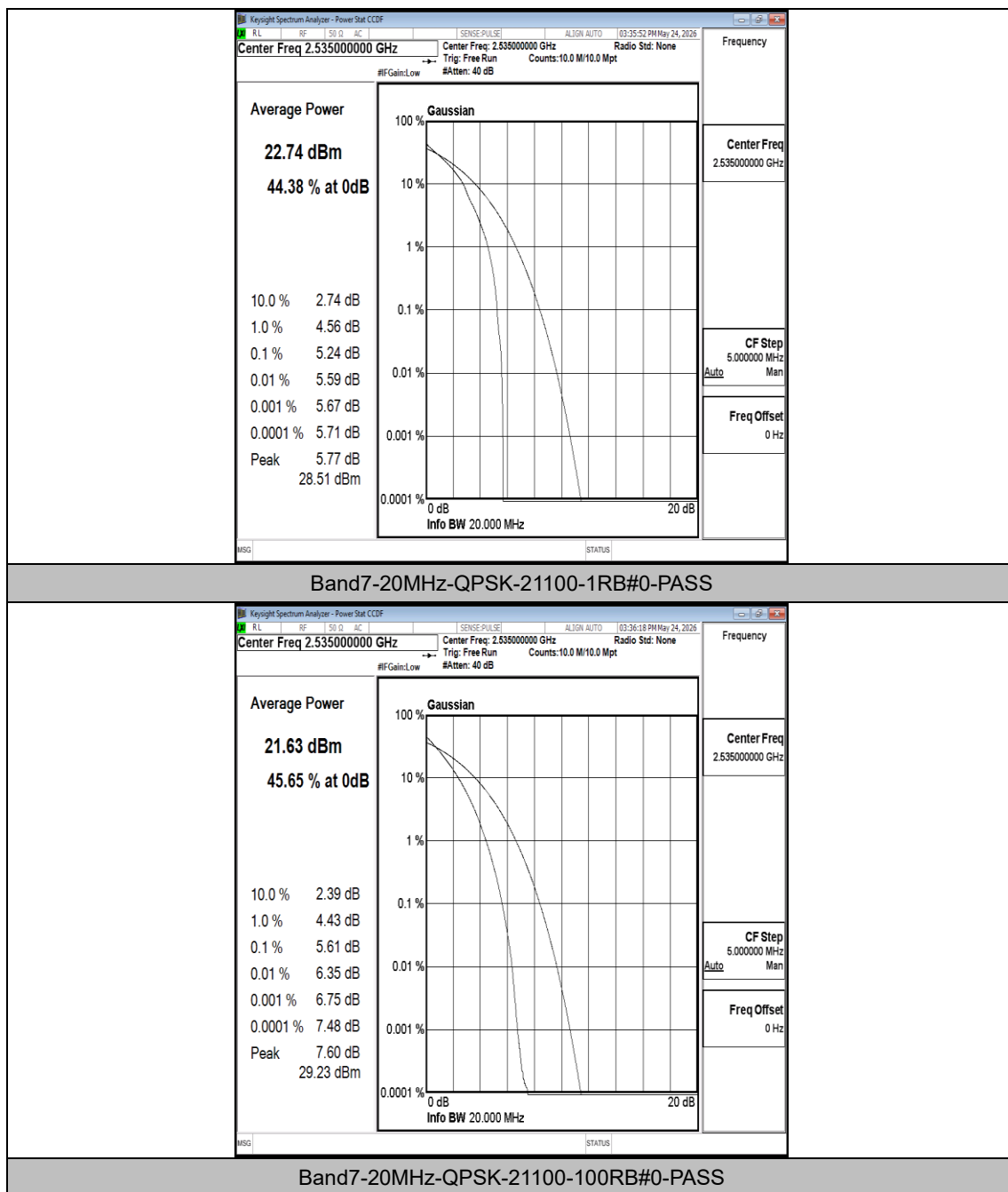


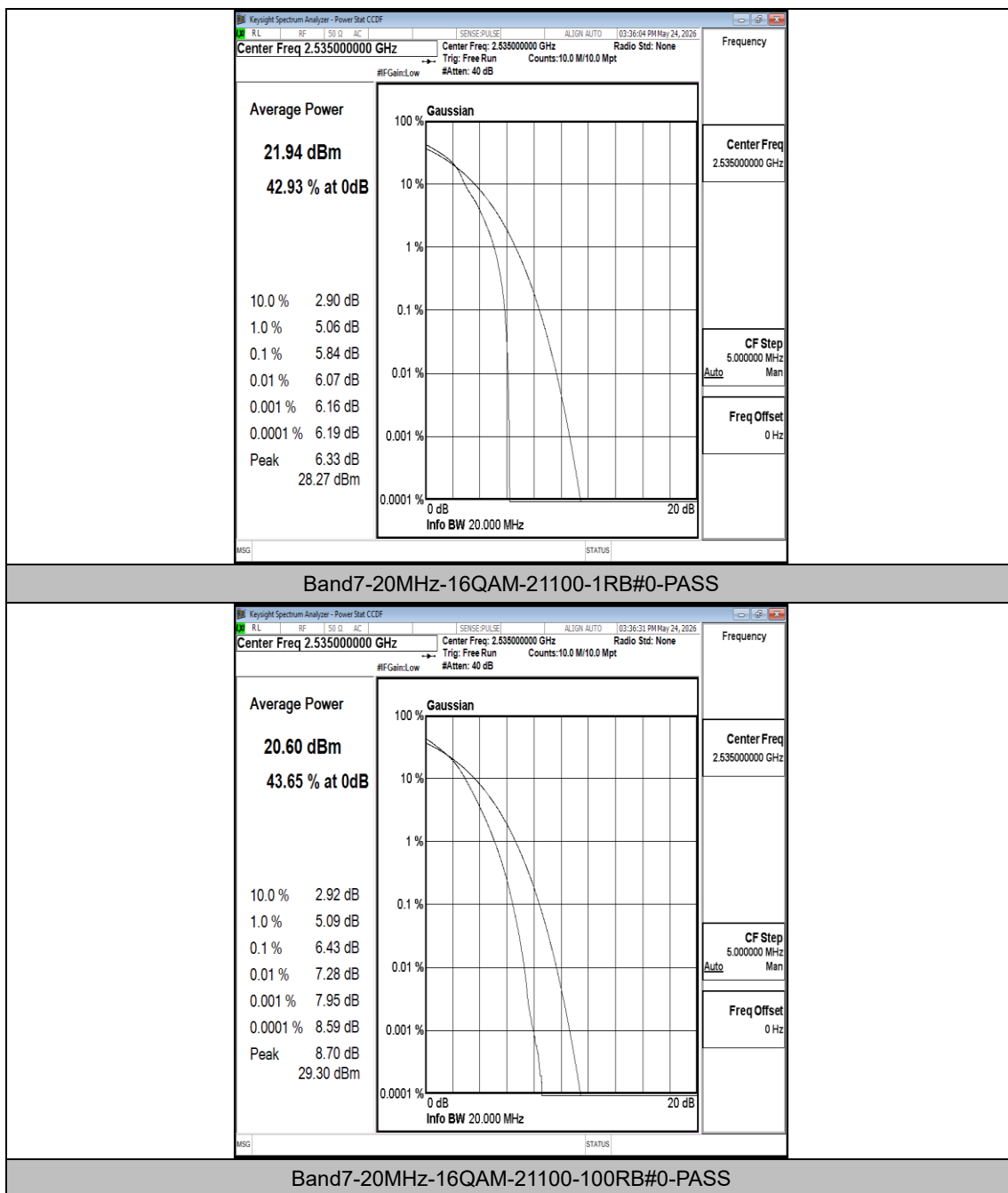


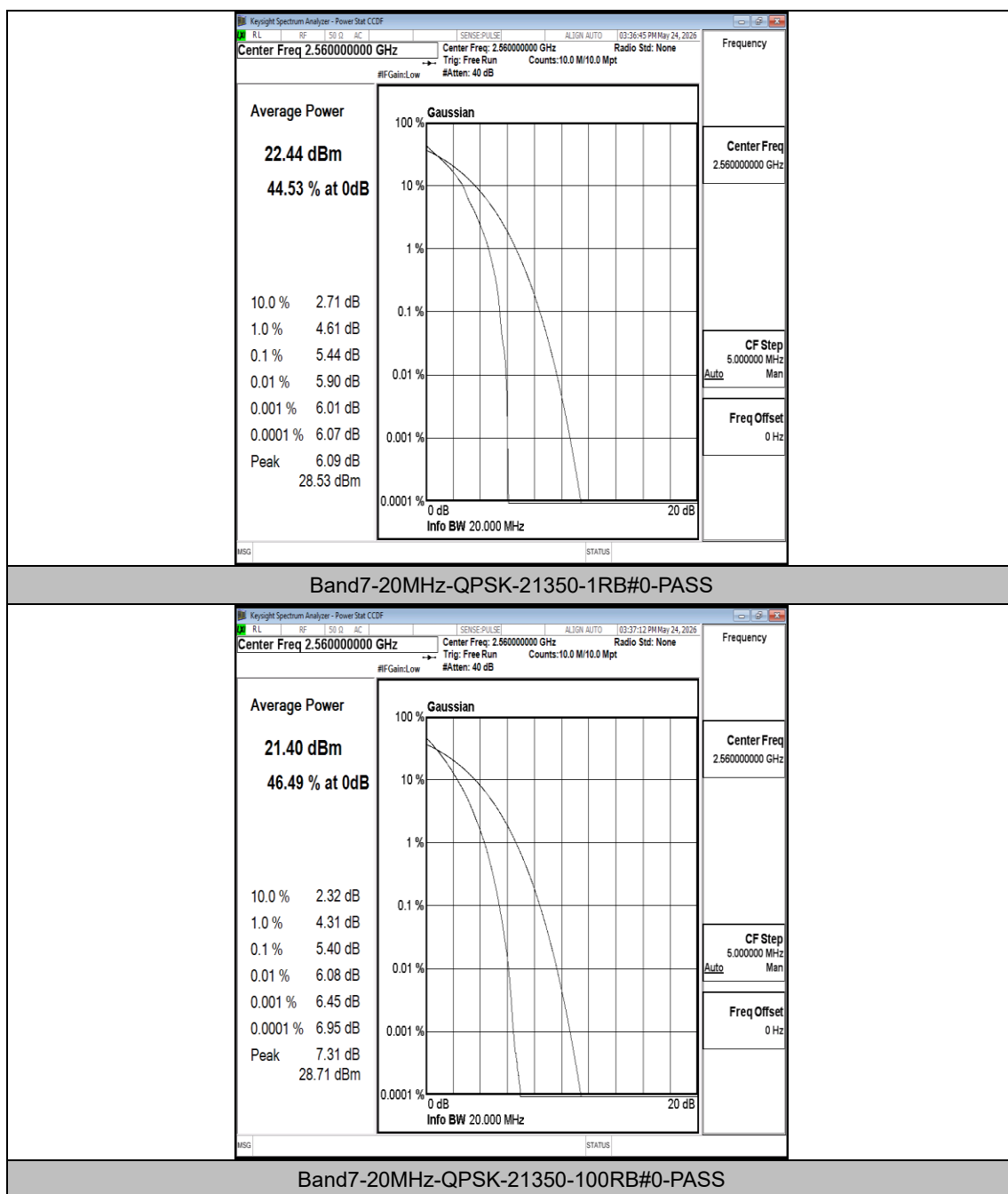


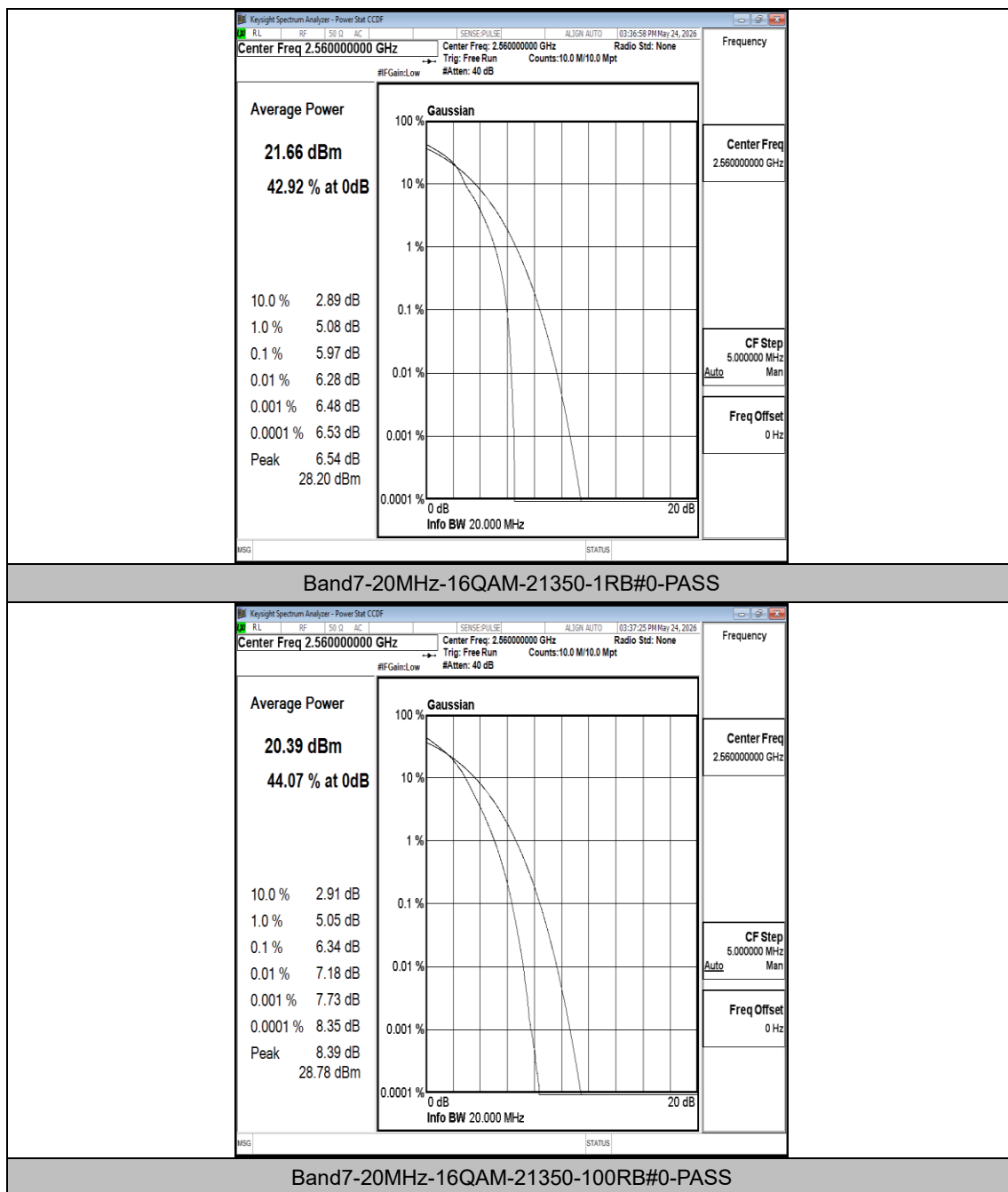










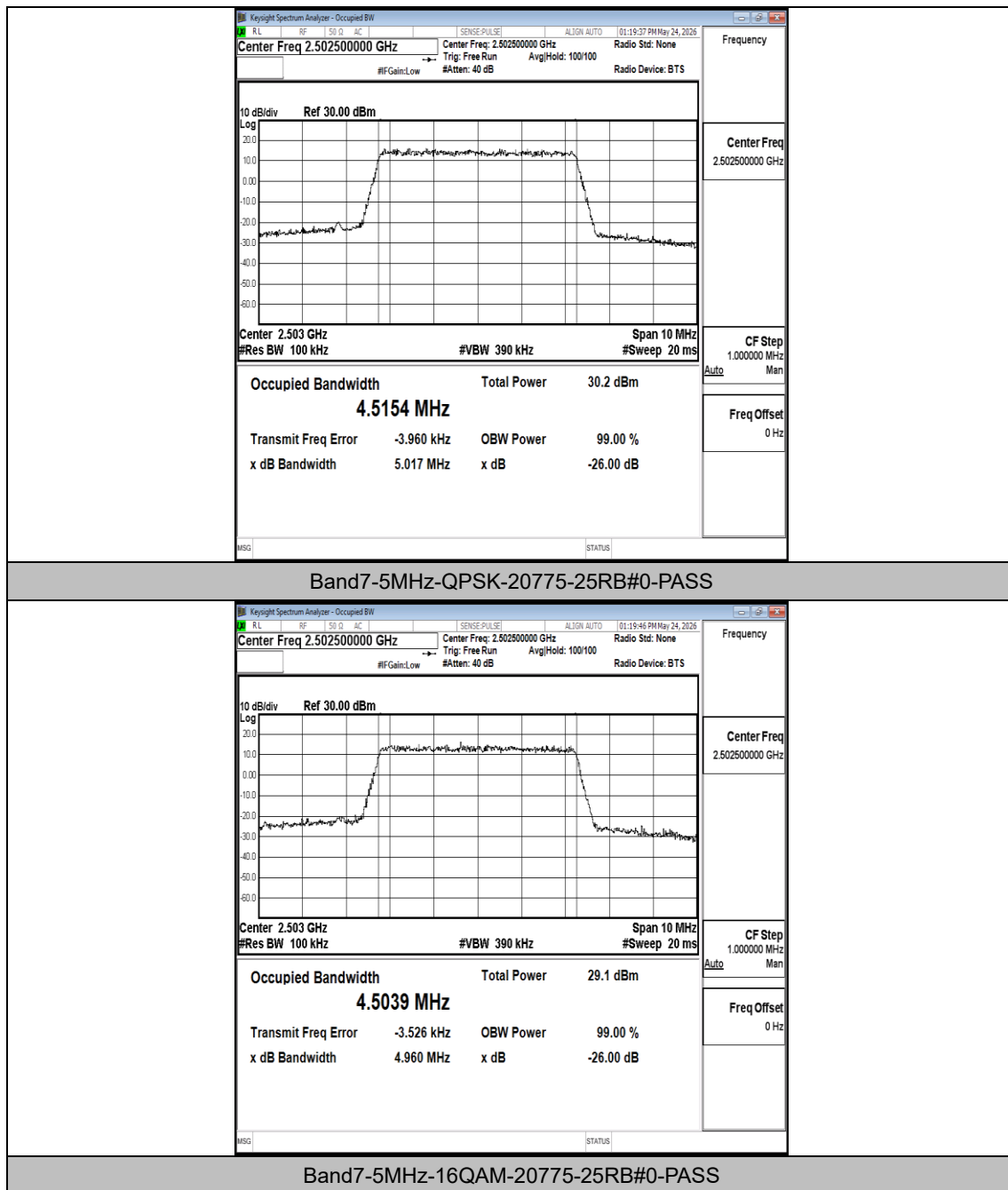


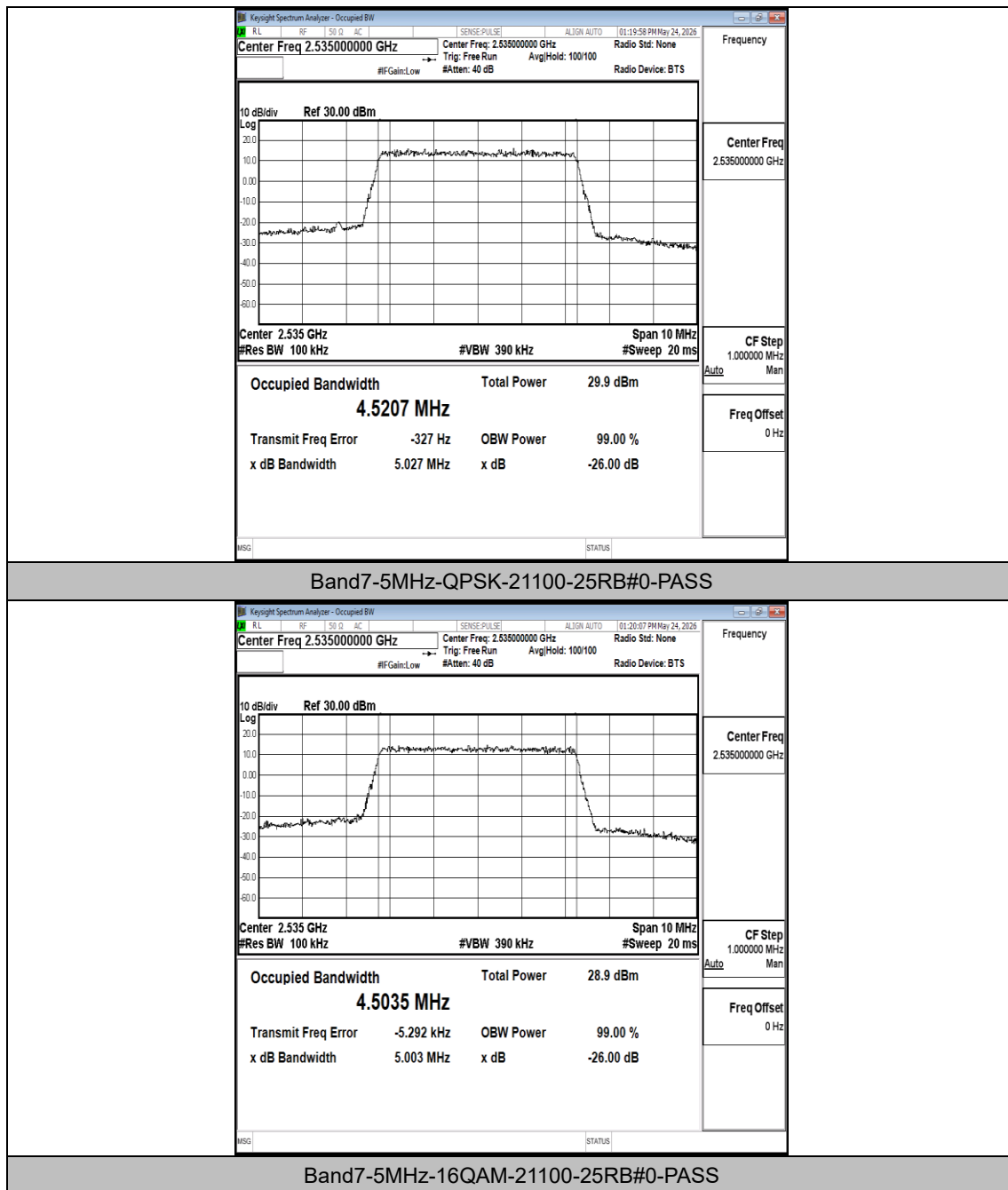
K.3 26dB Bandwidth and Occupied Bandwidth

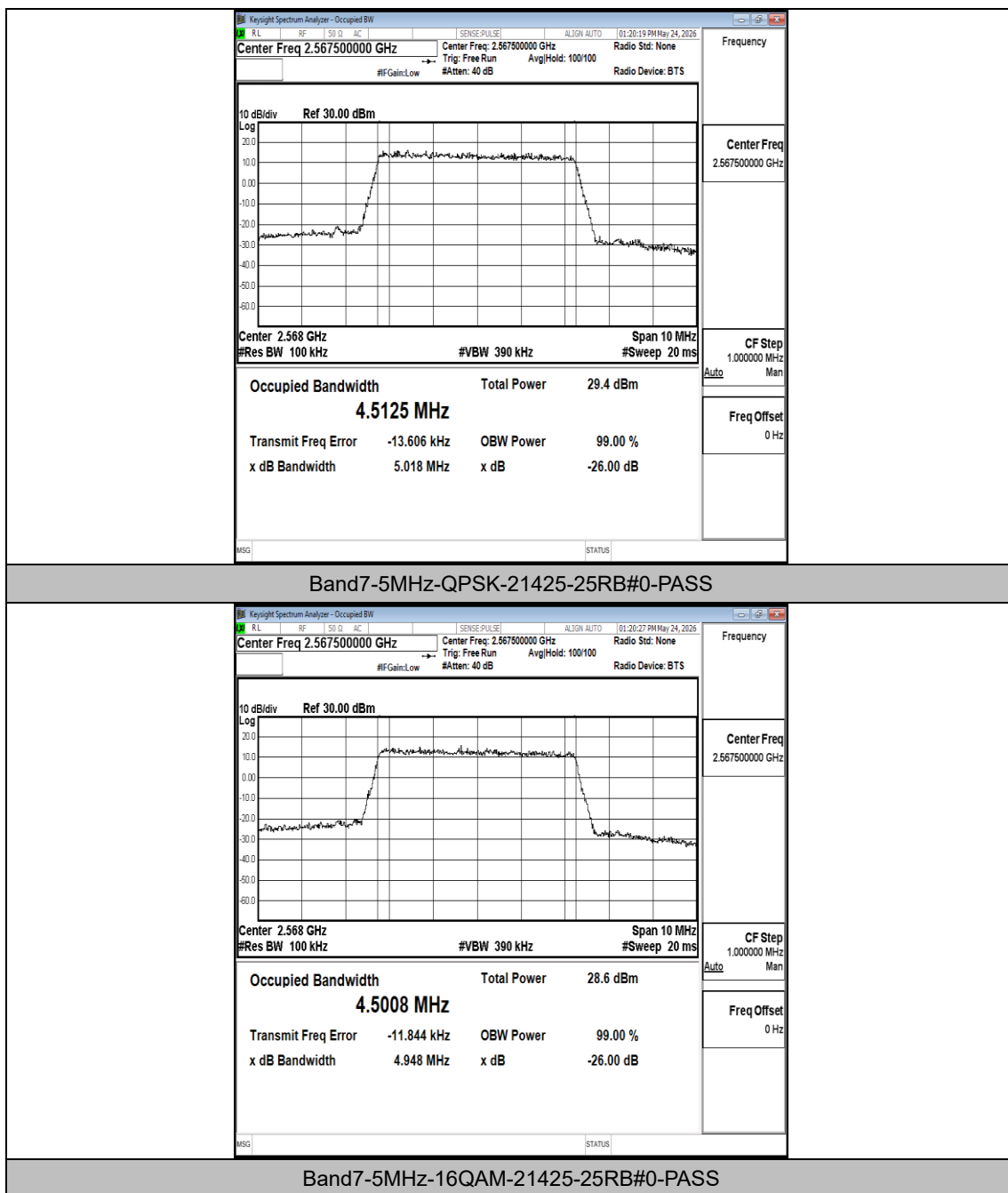
Test Result

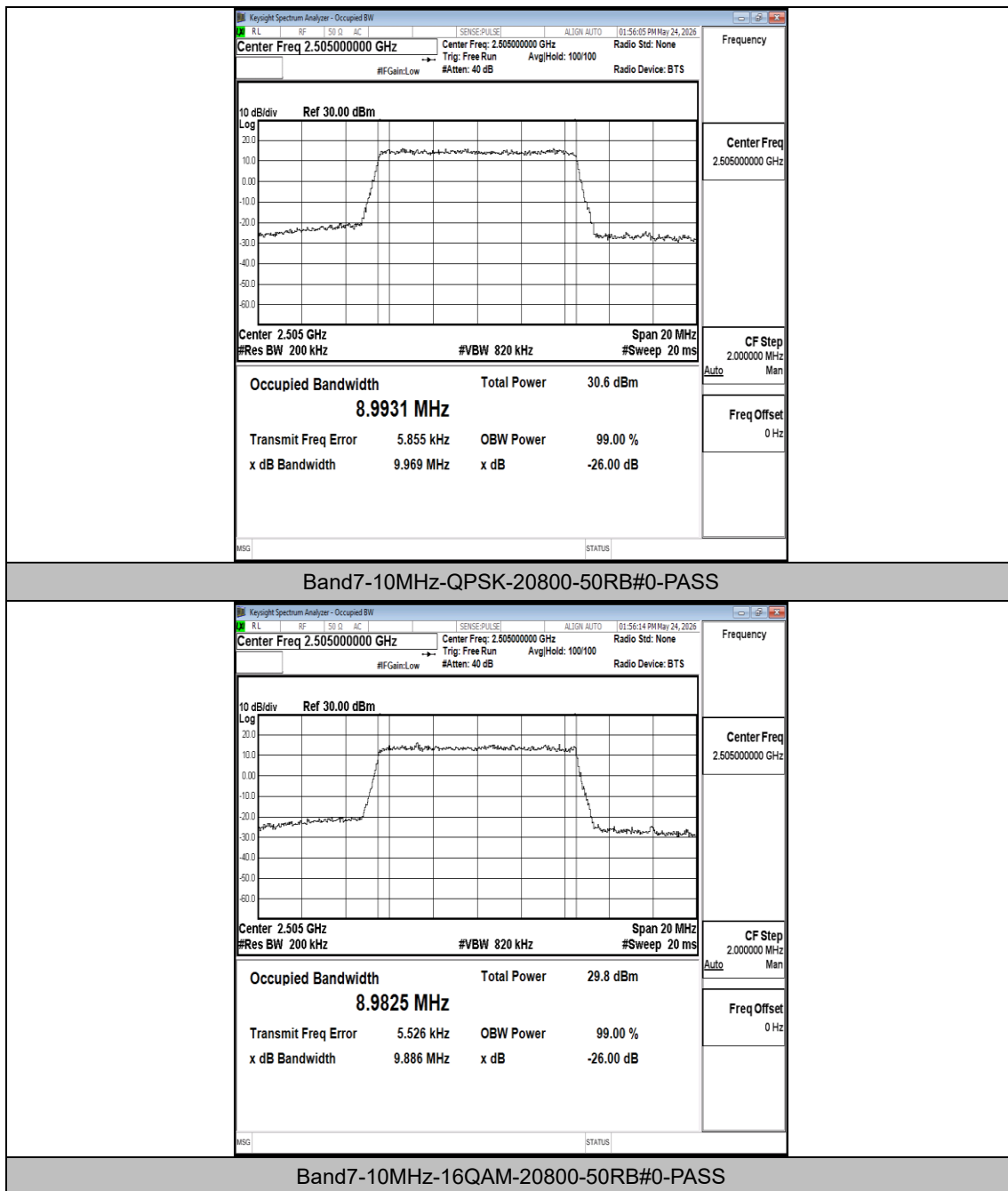
Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band7	5MHz	QPSK	20775	25RB#0	4.5154	5.017	PASS
Band7	5MHz	16QAM	20775	25RB#0	4.5039	4.960	PASS
Band7	5MHz	QPSK	21100	25RB#0	4.5207	5.027	PASS
Band7	5MHz	16QAM	21100	25RB#0	4.5035	5.003	PASS
Band7	5MHz	QPSK	21425	25RB#0	4.5125	5.018	PASS
Band7	5MHz	16QAM	21425	25RB#0	4.5008	4.948	PASS
Band7	10MHz	QPSK	20800	50RB#0	8.9931	9.969	PASS
Band7	10MHz	16QAM	20800	50RB#0	8.9825	9.886	PASS
Band7	10MHz	QPSK	21100	50RB#0	8.9838	9.944	PASS
Band7	10MHz	16QAM	21100	50RB#0	8.9699	9.833	PASS
Band7	10MHz	QPSK	21400	50RB#0	8.9871	9.963	PASS
Band7	10MHz	16QAM	21400	50RB#0	8.9634	9.807	PASS
Band7	15MHz	QPSK	20825	75RB#0	13.495	14.78	PASS
Band7	15MHz	16QAM	20825	75RB#0	13.484	14.73	PASS
Band7	15MHz	QPSK	21100	75RB#0	13.464	14.66	PASS
Band7	15MHz	16QAM	21100	75RB#0	13.477	14.71	PASS
Band7	15MHz	QPSK	21375	75RB#0	13.427	14.77	PASS
Band7	15MHz	16QAM	21375	75RB#0	13.481	14.68	PASS
Band7	20MHz	QPSK	20850	100RB#0	17.942	19.44	PASS
Band7	20MHz	16QAM	20850	100RB#0	17.996	19.55	PASS
Band7	20MHz	QPSK	21100	100RB#0	17.906	19.42	PASS
Band7	20MHz	16QAM	21100	100RB#0	17.986	19.43	PASS
Band7	20MHz	QPSK	21350	100RB#0	17.881	19.36	PASS
Band7	20MHz	16QAM	21350	100RB#0	17.928	19.46	PASS

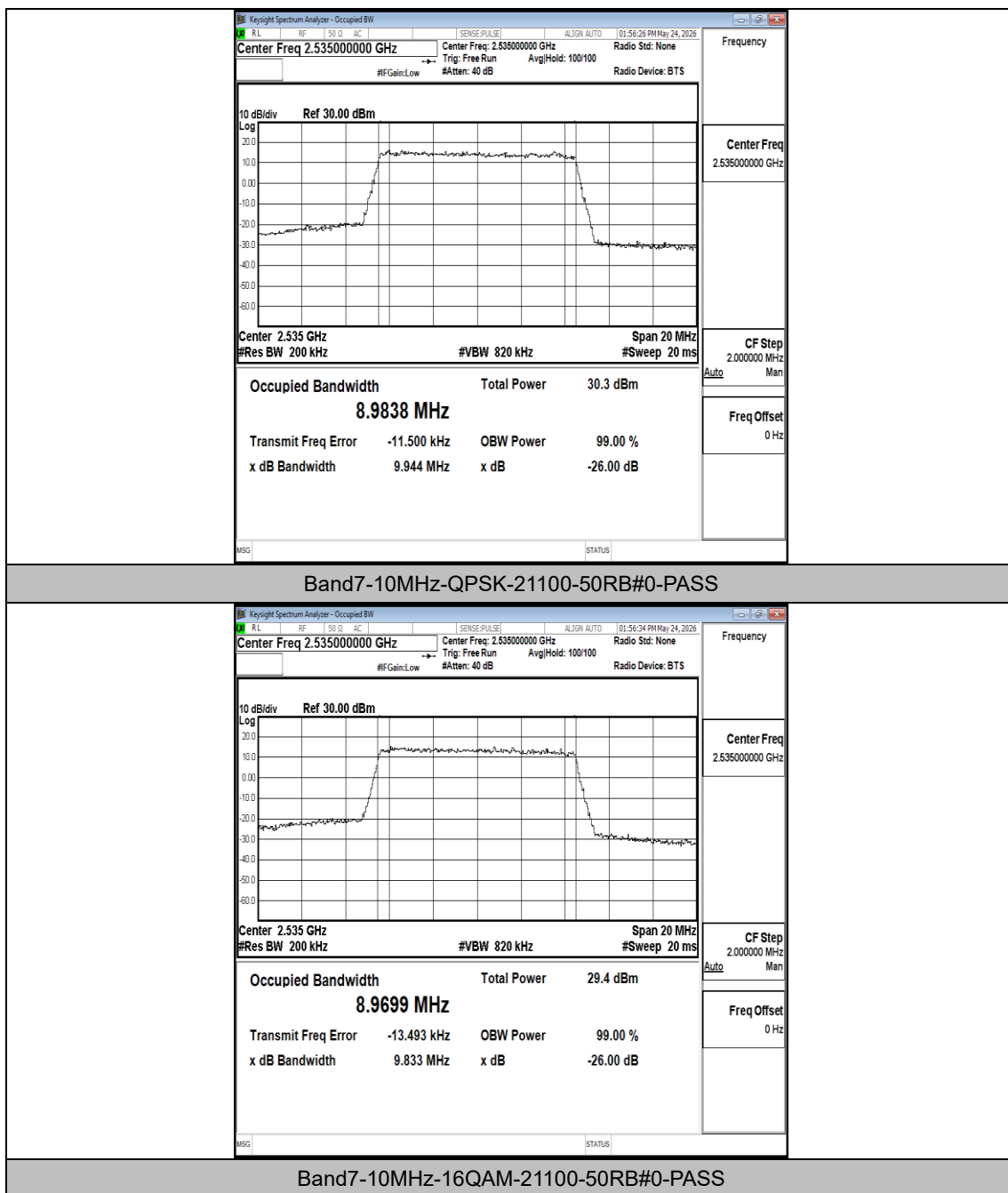
Test Graphs

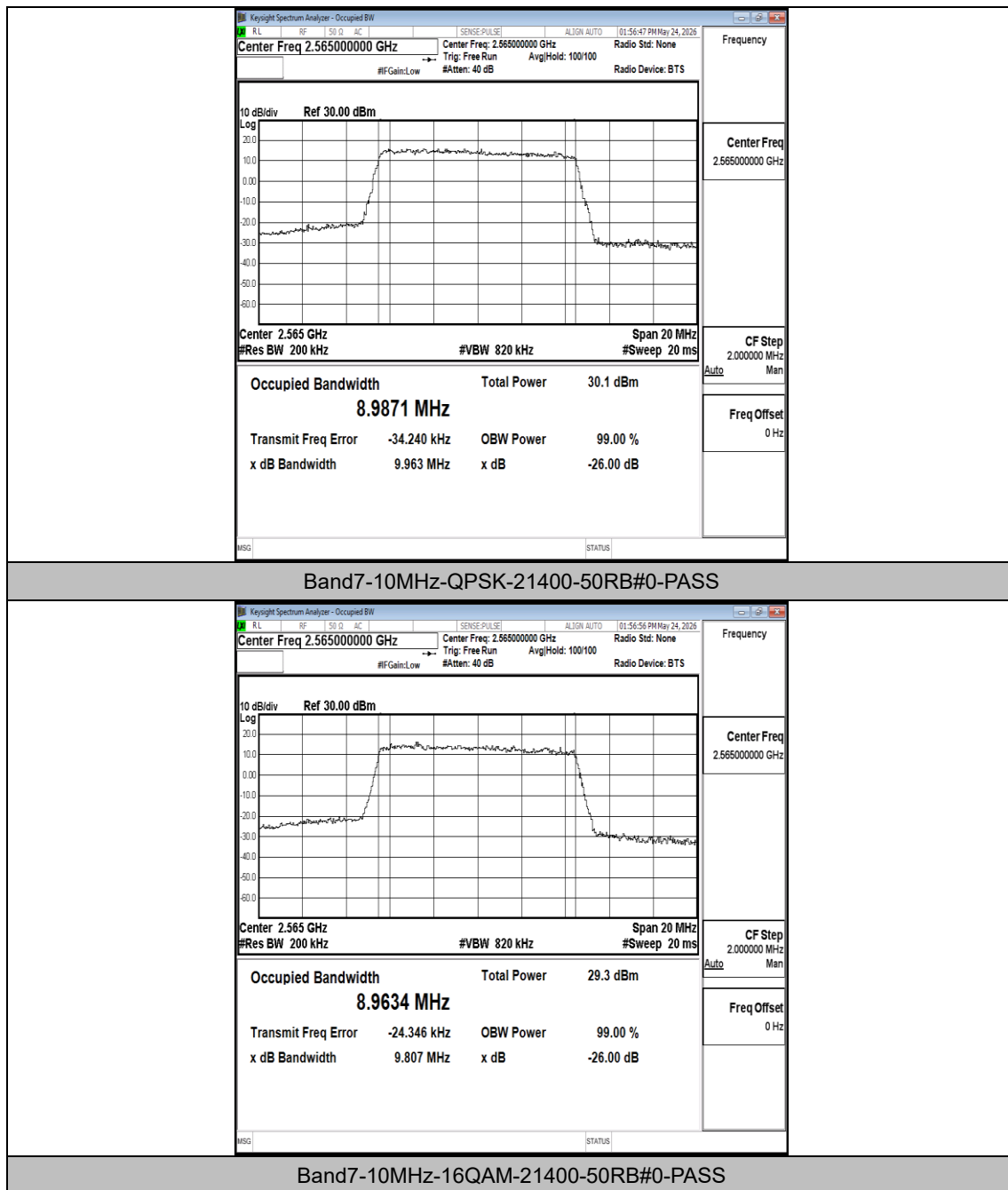


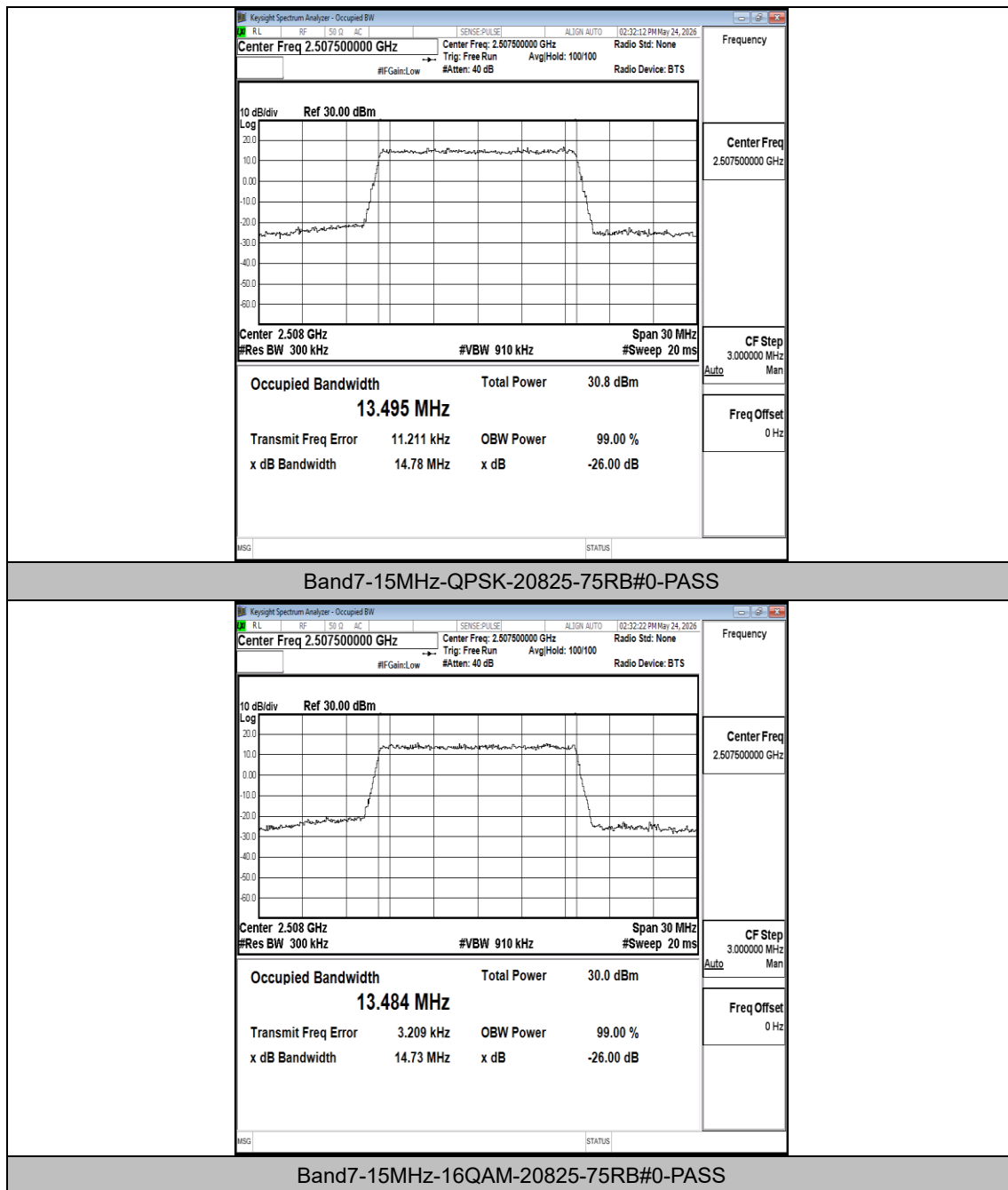


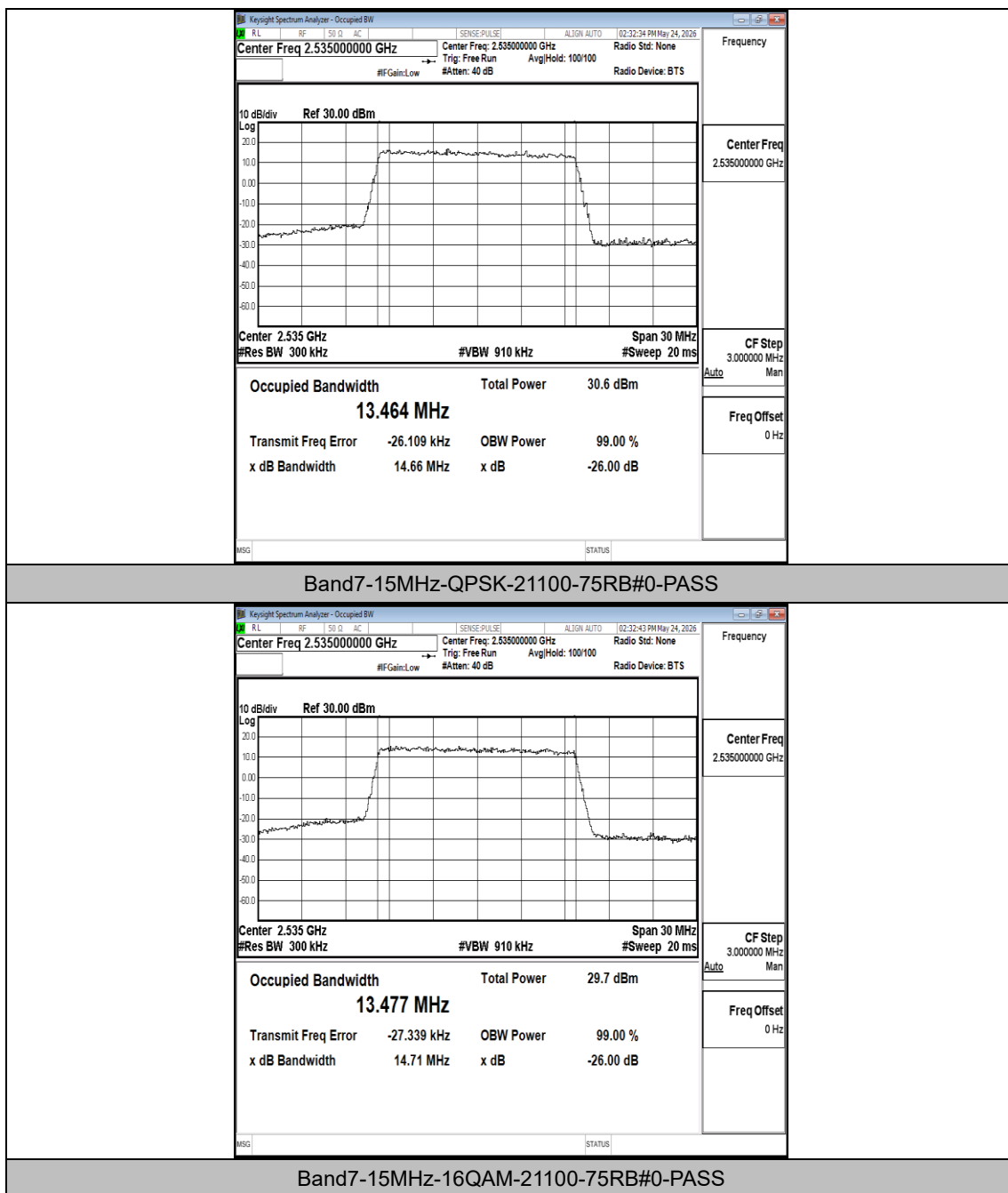


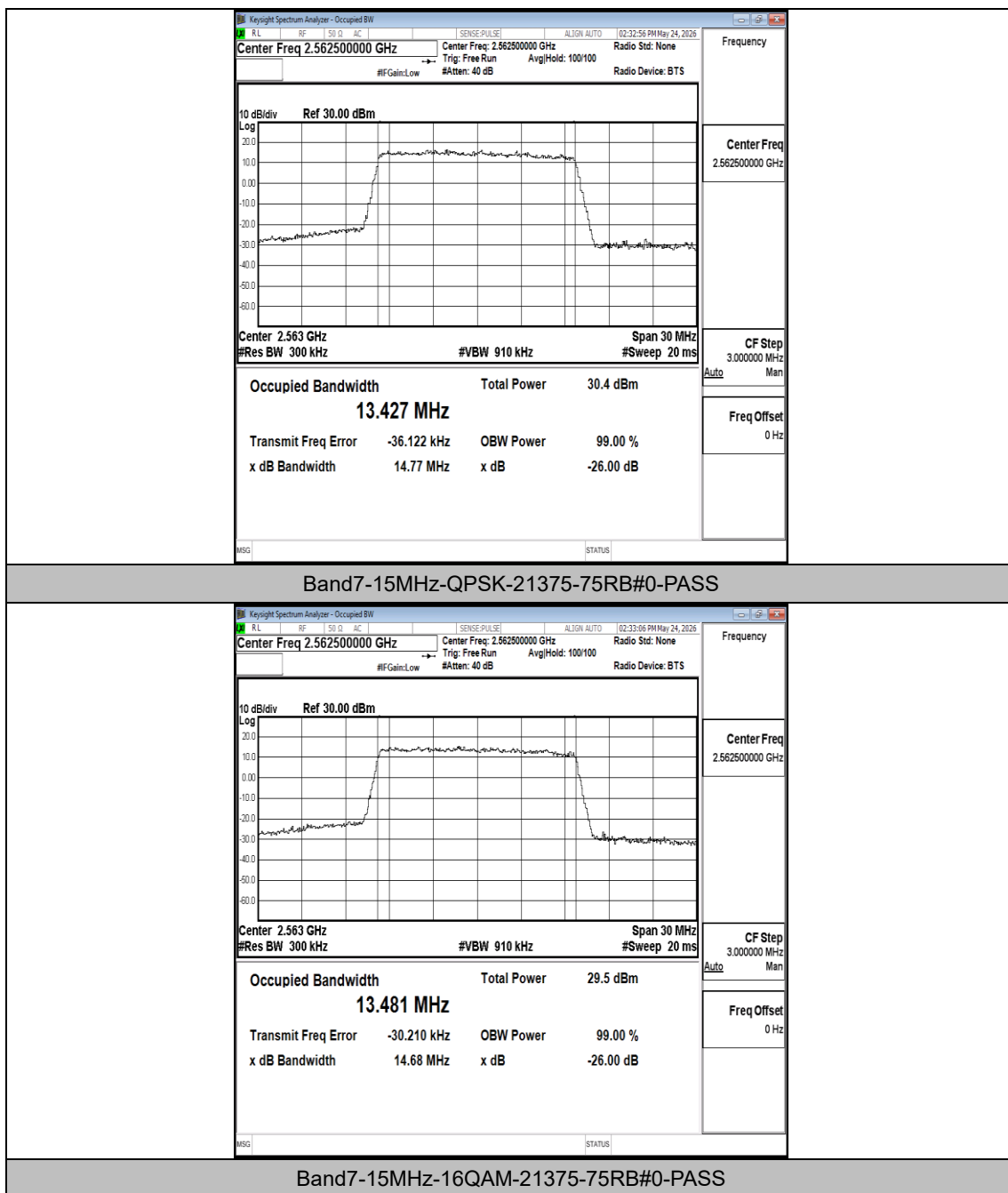


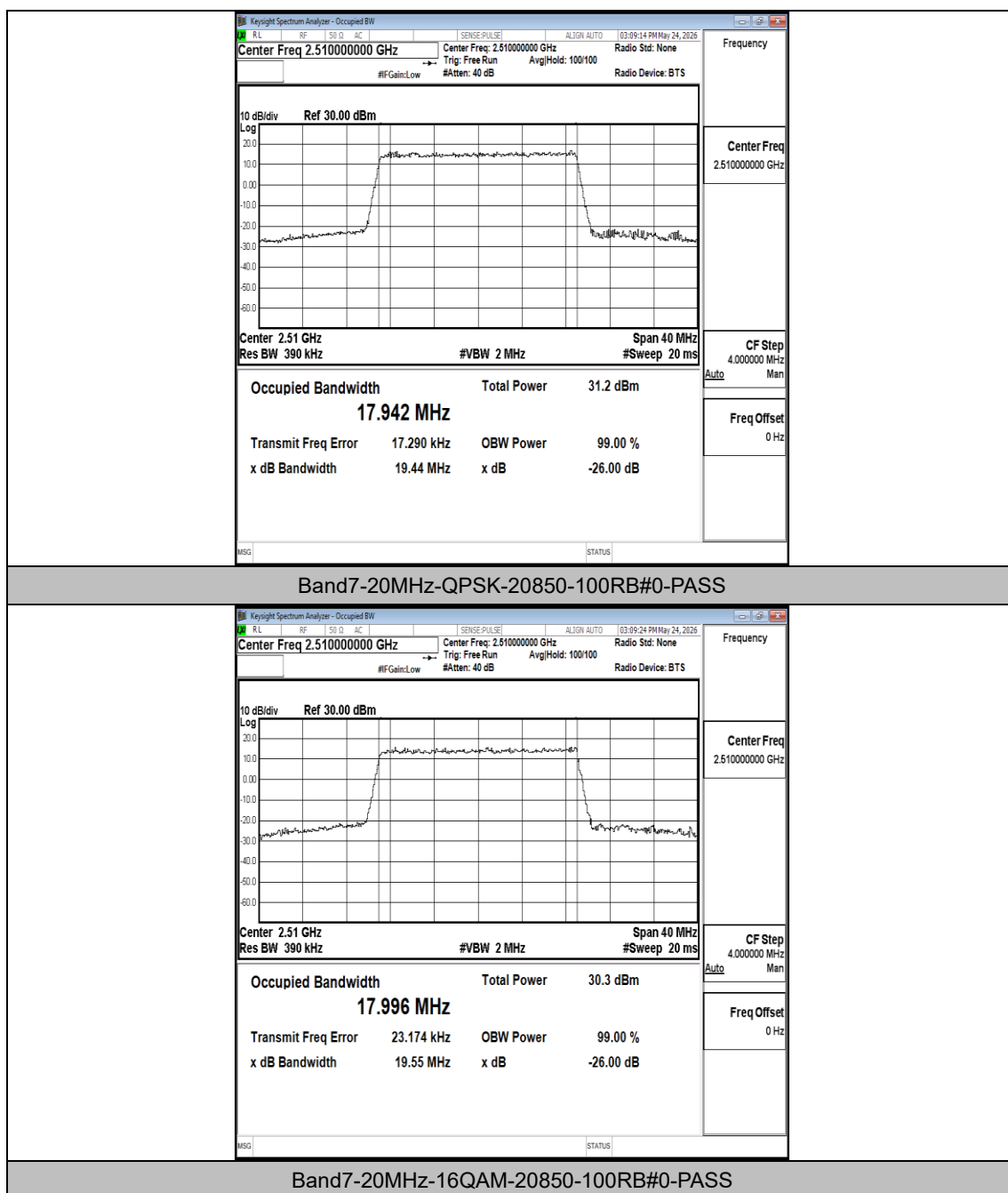


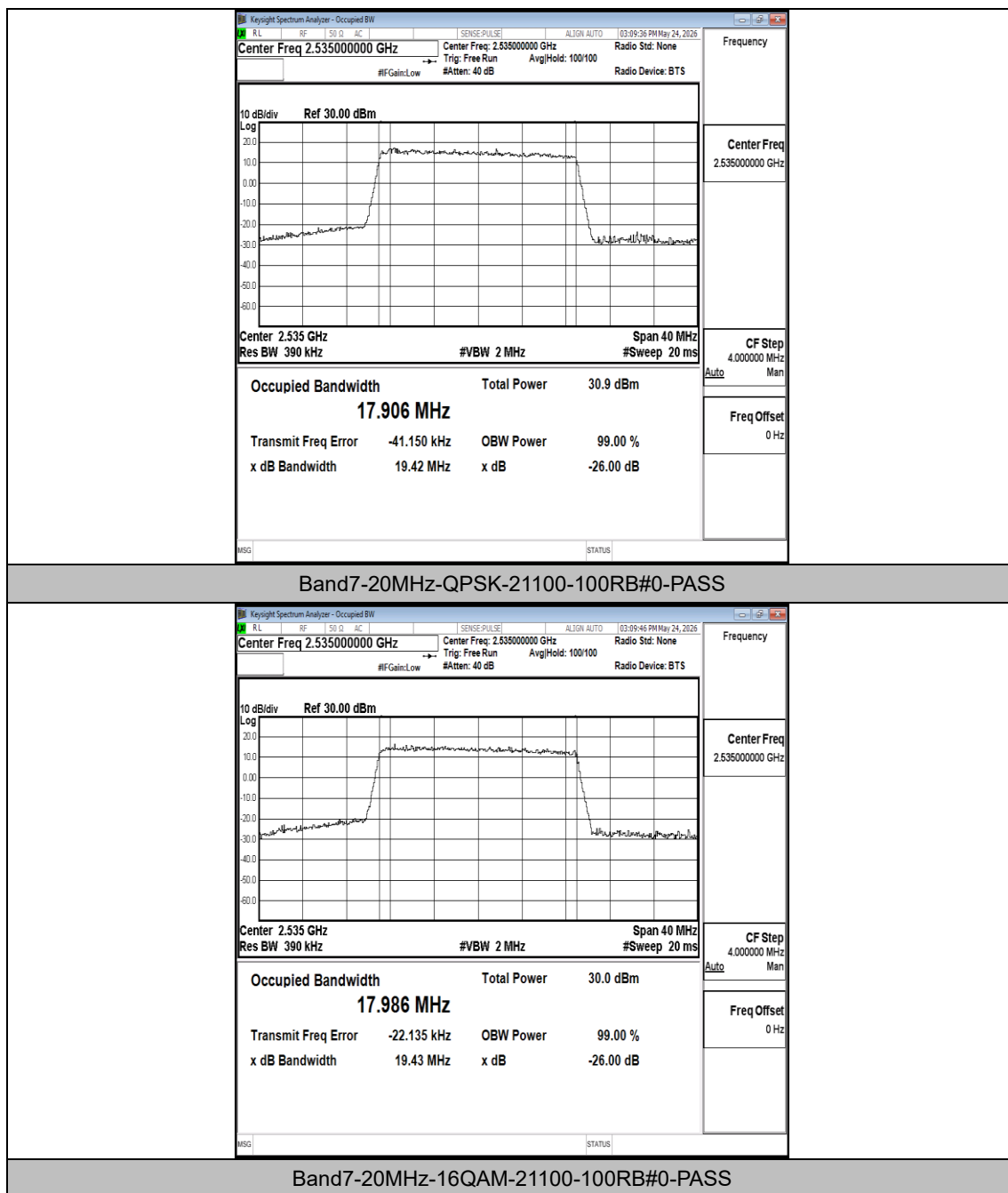


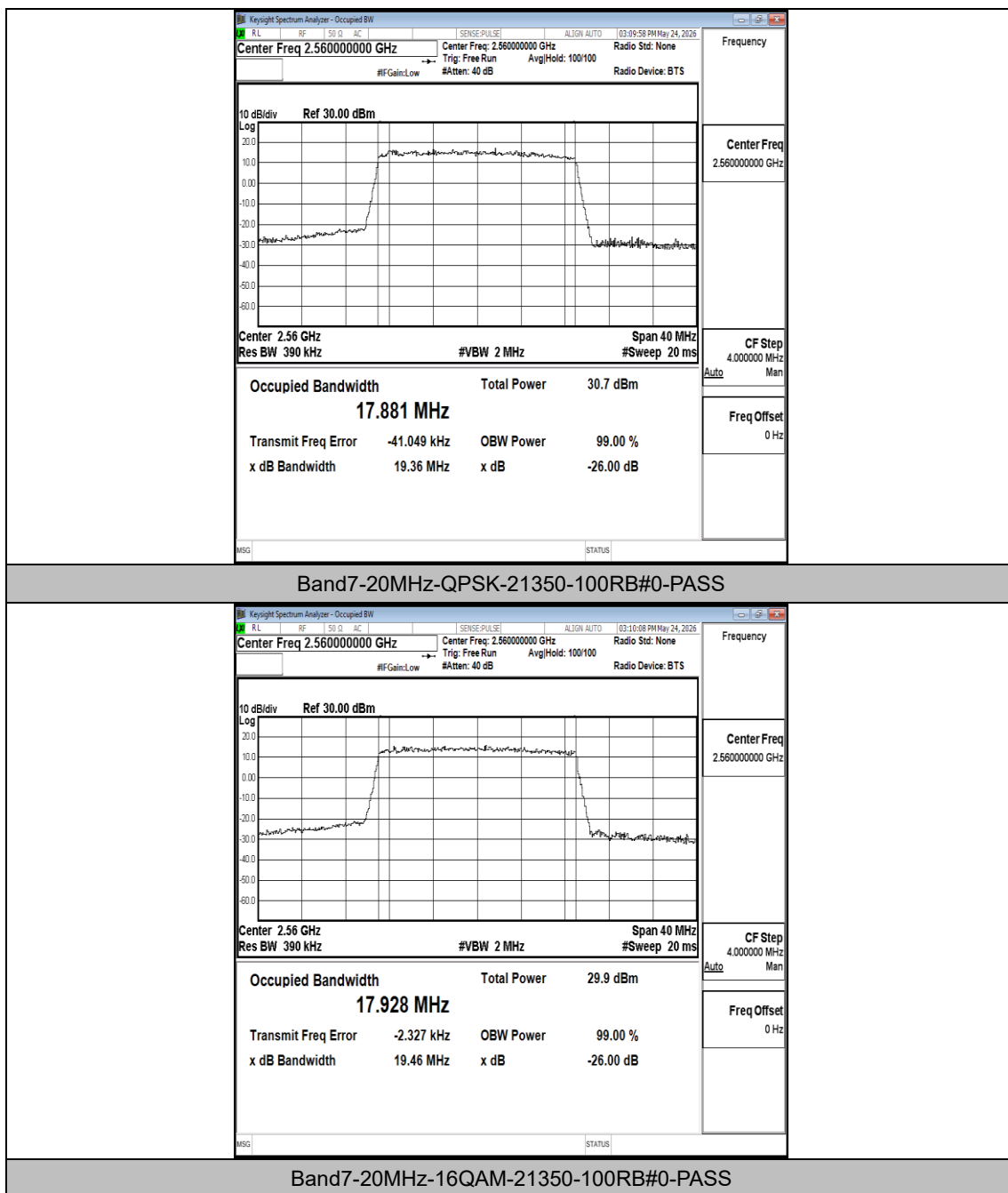












K.4 Band Edge

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Margin (dB)	Verdict
Band7	5MHz	QPSK	20775	25RB#0	-24.65	14.65	PASS
Band7	5MHz	16QAM	20775	25RB#0	-23.92	13.92	PASS
Band7	5MHz	QPSK	21425	25RB#0	-40.32	15.32	PASS
Band7	5MHz	16QAM	21425	25RB#0	-41.61	16.61	PASS
Band7	10MHz	QPSK	20800	50RB#0	-40.27	15.27	PASS
Band7	10MHz	16QAM	20800	50RB#0	-40.06	15.06	PASS
Band7	10MHz	QPSK	21400	50RB#0	-42.97	17.97	PASS
Band7	10MHz	16QAM	21400	50RB#0	-43.65	18.65	PASS
Band7	15MHz	QPSK	20825	75RB#0	-35.10	10.10	PASS
Band7	15MHz	16QAM	20825	75RB#0	-36.87	11.87	PASS
Band7	15MHz	QPSK	21375	75RB#0	-44.82	19.82	PASS
Band7	15MHz	16QAM	21375	75RB#0	-44.22	19.22	PASS
Band7	20MHz	QPSK	20850	100RB#0	-35.61	10.61	PASS
Band7	20MHz	16QAM	20850	100RB#0	-36.33	11.33	PASS
Band7	20MHz	QPSK	21350	100RB#0	-47.89	22.89	PASS
Band7	20MHz	16QAM	21350	100RB#0	-47.55	22.55	PASS

Test Graphs

