

Appendix A: Test Data for CatM1 Band 2

Product Name: GPS 4G Tracker Scout (CATM)
Test Model: GPS 4G Tracker Scout (CATM)

Environmental Conditions

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

A.1 Conducted Output Power Data

Test Result

Band	Bandwidth	Modulation	Channel	RB Size	RB Start	NBIndex	Conducted Power(dBm)	ERP/EIRP(dBm)	Verdict
Band2	1.4MHz	QPSK	18607	1	0	Low	23.15	23.15	PASS
Band2	1.4MHz	16QAM	18607	1	0	Low	21.66	21.66	PASS
Band2	1.4MHz	QPSK	18607	1	5	Low	23.00	23.00	PASS
Band2	1.4MHz	16QAM	18607	1	5	Low	21.60	21.60	PASS
Band2	1.4MHz	QPSK	18607	6	0	Low	20.42	20.42	PASS
Band2	1.4MHz	16QAM	18607	6	0	Low	20.16	20.16	PASS
Band2	1.4MHz	QPSK	18900	1	0	Low	23.02	23.02	PASS
Band2	1.4MHz	16QAM	18900	1	0	Low	22.20	22.20	PASS
Band2	1.4MHz	QPSK	18900	1	5	Low	22.96	22.96	PASS
Band2	1.4MHz	16QAM	18900	1	5	Low	22.18	22.18	PASS
Band2	1.4MHz	QPSK	18900	6	0	Low	21.25	21.25	PASS
Band2	1.4MHz	16QAM	18900	6	0	Low	20.69	20.69	PASS
Band2	1.4MHz	QPSK	19193	1	0	High	22.08	22.08	PASS
Band2	1.4MHz	16QAM	19193	1	0	High	21.29	21.29	PASS
Band2	1.4MHz	QPSK	19193	1	5	High	22.01	22.01	PASS
Band2	1.4MHz	16QAM	19193	1	5	High	21.23	21.23	PASS
Band2	1.4MHz	QPSK	19193	6	0	High	20.25	20.25	PASS
Band2	1.4MHz	16QAM	19193	6	0	High	19.74	19.74	PASS
Band2	3MHz	QPSK	18615	1	0	Low	22.54	22.54	PASS
Band2	3MHz	16QAM	18615	1	0	Low	21.65	21.65	PASS
Band2	3MHz	QPSK	18615	1	5	Low	22.49	22.49	PASS
Band2	3MHz	16QAM	18615	1	5	Low	21.64	21.64	PASS
Band2	3MHz	QPSK	18615	6	0	Low	20.63	20.63	PASS
Band2	3MHz	16QAM	18615	6	0	Low	20.18	20.18	PASS
Band2	3MHz	QPSK	18900	1	0	Low	23.09	23.09	PASS
Band2	3MHz	16QAM	18900	1	0	Low	22.23	22.23	PASS
Band2	3MHz	QPSK	18900	1	5	Low	22.99	22.99	PASS
Band2	3MHz	16QAM	18900	1	5	Low	22.14	22.14	PASS
Band2	3MHz	QPSK	18900	6	0	Low	21.07	21.07	PASS
Band2	3MHz	16QAM	18900	6	0	Low	20.75	20.75	PASS
Band2	3MHz	QPSK	19185	1	0	High	22.26	22.26	PASS
Band2	3MHz	16QAM	19185	1	0	High	21.41	21.41	PASS
Band2	3MHz	QPSK	19185	1	5	High	22.14	22.14	PASS
Band2	3MHz	16QAM	19185	1	5	High	21.28	21.28	PASS
Band2	3MHz	QPSK	19185	6	0	High	20.33	20.33	PASS

Band2	3MHz	16QAM	19185	6	0	High	19.87	19.87	PASS
Band2	5MHz	QPSK	18625	1	0	Low	23.08	23.08	PASS
Band2	5MHz	16QAM	18625	1	0	Low	22.98	22.98	PASS
Band2	5MHz	QPSK	18625	1	5	Low	23.11	23.11	PASS
Band2	5MHz	16QAM	18625	1	5	Low	23.06	23.06	PASS
Band2	5MHz	QPSK	18625	6	0	Low	22.09	22.09	PASS
Band2	5MHz	16QAM	18625	6	0	Low	20.50	20.50	PASS
Band2	5MHz	QPSK	18900	1	0	Low	23.48	23.48	PASS
Band2	5MHz	16QAM	18900	1	0	Low	23.45	23.45	PASS
Band2	5MHz	QPSK	18900	1	5	Low	23.54	23.54	PASS
Band2	5MHz	16QAM	18900	1	5	Low	23.51	23.51	PASS
Band2	5MHz	QPSK	18900	6	0	Low	22.45	22.45	PASS
Band2	5MHz	16QAM	18900	6	0	Low	20.99	20.99	PASS
Band2	5MHz	QPSK	19175	1	0	High	22.57	22.57	PASS
Band2	5MHz	16QAM	19175	1	0	High	22.57	22.57	PASS
Band2	5MHz	QPSK	19175	1	5	High	22.61	22.61	PASS
Band2	5MHz	16QAM	19175	1	5	High	22.59	22.59	PASS
Band2	5MHz	QPSK	19175	6	0	High	21.60	21.60	PASS
Band2	5MHz	16QAM	19175	6	0	High	20.16	20.16	PASS
Band2	10MHz	QPSK	18650	1	0	Low	22.96	22.96	PASS
Band2	10MHz	16QAM	18650	1	0	Low	22.98	22.98	PASS
Band2	10MHz	QPSK	18650	1	5	Low	23.09	23.09	PASS
Band2	10MHz	16QAM	18650	1	5	Low	23.11	23.11	PASS
Band2	10MHz	QPSK	18650	6	0	Low	21.93	21.93	PASS
Band2	10MHz	16QAM	18650	6	0	Low	20.63	20.63	PASS
Band2	10MHz	QPSK	18900	1	0	Low	23.49	23.49	PASS
Band2	10MHz	16QAM	18900	1	0	Low	23.51	23.51	PASS
Band2	10MHz	QPSK	18900	1	5	Low	23.55	23.55	PASS
Band2	10MHz	16QAM	18900	1	5	Low	23.59	23.59	PASS
Band2	10MHz	QPSK	18900	6	0	Low	22.50	22.50	PASS
Band2	10MHz	16QAM	18900	6	0	Low	21.05	21.05	PASS
Band2	10MHz	QPSK	19150	1	0	High	22.77	22.77	PASS
Band2	10MHz	16QAM	19150	1	0	High	22.73	22.73	PASS
Band2	10MHz	QPSK	19150	1	5	High	22.71	22.71	PASS
Band2	10MHz	16QAM	19150	1	5	High	22.74	22.74	PASS
Band2	10MHz	QPSK	19150	6	0	High	21.69	21.69	PASS
Band2	10MHz	16QAM	19150	6	0	High	20.50	20.50	PASS
Band2	15MHz	QPSK	18675	1	0	Low	23.12	23.12	PASS
Band2	15MHz	16QAM	18675	1	0	Low	23.04	23.04	PASS
Band2	15MHz	QPSK	18675	1	5	Low	23.15	23.15	PASS
Band2	15MHz	16QAM	18675	1	5	Low	23.11	23.11	PASS

Band2	15MHz	QPSK	18675	6	0	Low	23.05	23.05	PASS
Band2	15MHz	16QAM	18675	6	0	Low	22.44	22.44	PASS
Band2	15MHz	QPSK	18900	1	0	Low	23.56	23.56	PASS
Band2	15MHz	16QAM	18900	1	0	Low	23.56	23.56	PASS
Band2	15MHz	QPSK	18900	1	5	Low	23.64	23.64	PASS
Band2	15MHz	16QAM	18900	1	5	Low	23.60	23.60	PASS
Band2	15MHz	QPSK	18900	6	0	Low	23.41	23.41	PASS
Band2	15MHz	16QAM	18900	6	0	Low	22.94	22.94	PASS
Band2	15MHz	QPSK	19125	1	0	High	22.83	22.83	PASS
Band2	15MHz	16QAM	19125	1	0	High	22.79	22.79	PASS
Band2	15MHz	QPSK	19125	1	5	High	22.86	22.86	PASS
Band2	15MHz	16QAM	19125	1	5	High	22.77	22.77	PASS
Band2	15MHz	QPSK	19125	6	0	High	22.74	22.74	PASS
Band2	15MHz	16QAM	19125	6	0	High	22.83	22.83	PASS
Band2	20MHz	QPSK	18700	1	0	Low	23.05	23.05	PASS
Band2	20MHz	16QAM	18700	1	0	Low	23.02	23.02	PASS
Band2	20MHz	QPSK	18700	1	5	Low	23.16	23.16	PASS
Band2	20MHz	16QAM	18700	1	5	Low	23.18	23.18	PASS
Band2	20MHz	QPSK	18700	6	0	Low	23.04	23.04	PASS
Band2	20MHz	16QAM	18700	6	0	Low	22.44	22.44	PASS
Band2	20MHz	QPSK	18900	1	0	Low	23.56	23.56	PASS
Band2	20MHz	16QAM	18900	1	0	Low	23.56	23.56	PASS
Band2	20MHz	QPSK	18900	1	5	Low	23.63	23.63	PASS
Band2	20MHz	16QAM	18900	1	5	Low	23.63	23.63	PASS
Band2	20MHz	QPSK	18900	6	0	Low	23.52	23.52	PASS
Band2	20MHz	16QAM	18900	6	0	Low	22.92	22.92	PASS
Band2	20MHz	QPSK	19100	1	0	High	22.83	22.83	PASS
Band2	20MHz	16QAM	19100	1	0	High	22.87	22.87	PASS
Band2	20MHz	QPSK	19100	1	5	High	22.91	22.91	PASS
Band2	20MHz	16QAM	19100	1	5	High	22.83	22.83	PASS
Band2	20MHz	QPSK	19100	6	0	High	22.77	22.77	PASS
Band2	20MHz	16QAM	19100	6	0	High	23.10	23.10	PASS

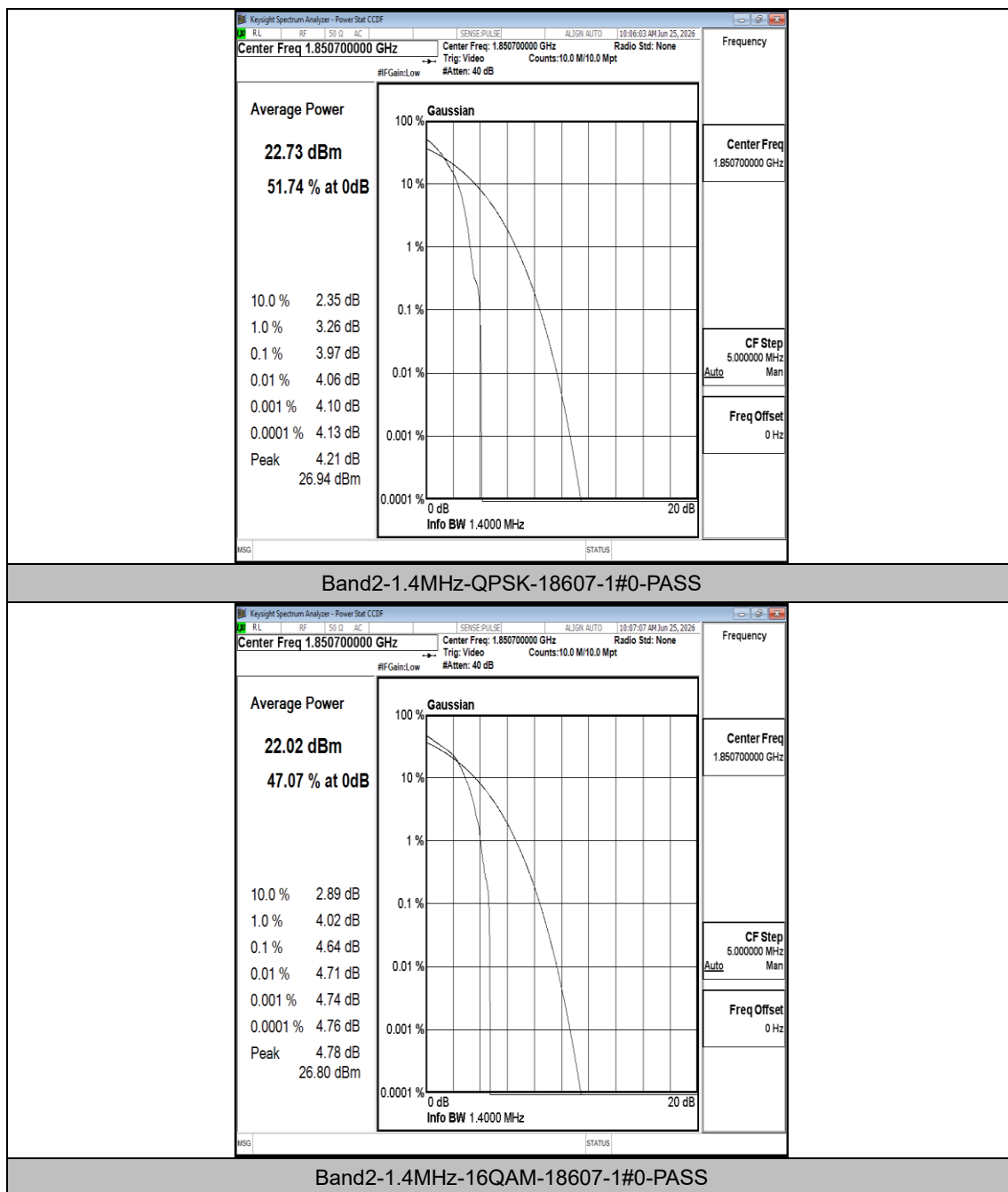
A.2 Peak-to-Average Ratio(CCDF) for M1

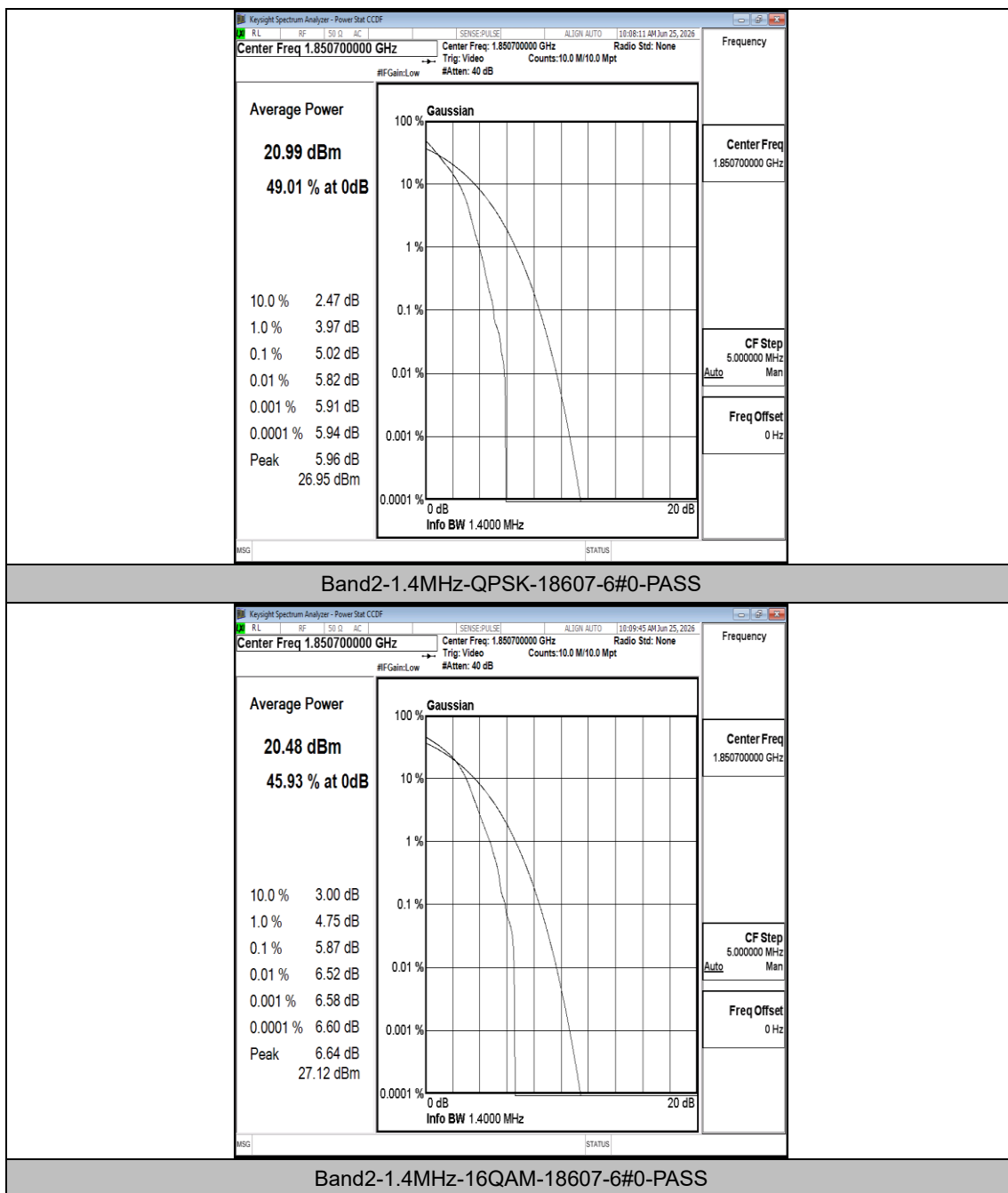
Test Result

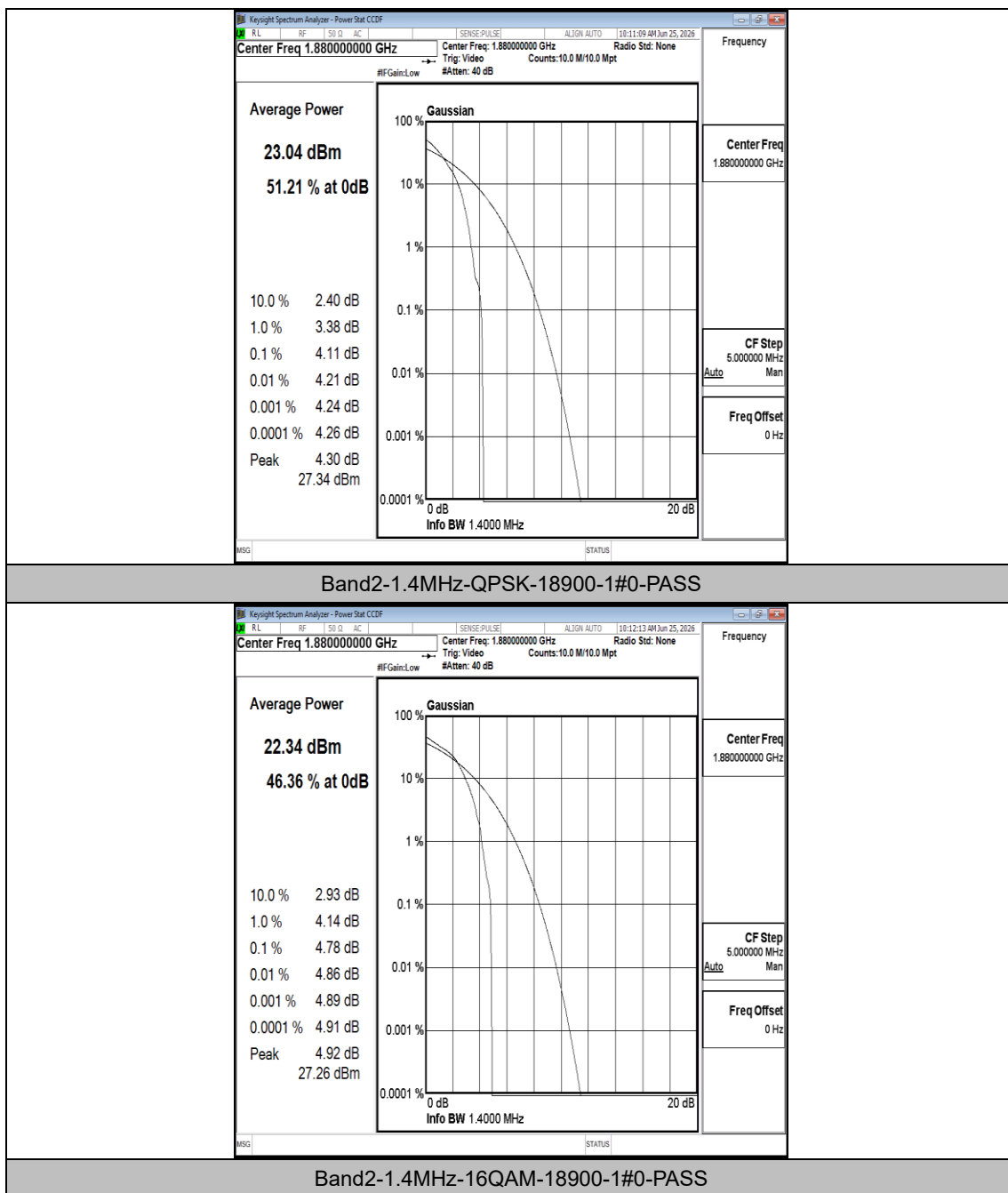
Band	Bandwidth	Modulation	Channel	RB Size	RB Start	NBIndex	Result(dB)	Limit(dB)	Verdict
Band2	1.4MHz	QPSK	18607	1	0	Low	3.97	<=13	PASS
Band2	1.4MHz	16QAM	18607	1	0	Low	4.64	<=13	PASS
Band2	1.4MHz	QPSK	18607	6	0	Low	5.02	<=13	PASS
Band2	1.4MHz	16QAM	18607	6	0	Low	5.87	<=13	PASS
Band2	1.4MHz	QPSK	18900	1	0	Low	4.11	<=13	PASS
Band2	1.4MHz	16QAM	18900	1	0	Low	4.78	<=13	PASS
Band2	1.4MHz	QPSK	18900	6	0	Low	5.05	<=13	PASS
Band2	1.4MHz	16QAM	18900	6	0	Low	5.94	<=13	PASS
Band2	1.4MHz	QPSK	19193	1	5	High	4.30	<=13	PASS
Band2	1.4MHz	16QAM	19193	1	5	High	5.04	<=13	PASS
Band2	1.4MHz	QPSK	19193	6	0	High	5.07	<=13	PASS
Band2	1.4MHz	16QAM	19193	6	0	High	5.98	<=13	PASS
Band2	3MHz	QPSK	18615	1	0	Low	3.89	<=13	PASS
Band2	3MHz	16QAM	18615	1	0	Low	4.64	<=13	PASS
Band2	3MHz	QPSK	18615	6	0	Low	5.67	<=13	PASS
Band2	3MHz	16QAM	18615	6	0	Low	5.75	<=13	PASS
Band2	3MHz	QPSK	18900	1	0	Low	4.02	<=13	PASS
Band2	3MHz	16QAM	18900	1	0	Low	4.78	<=13	PASS
Band2	3MHz	QPSK	18900	6	0	Low	5.37	<=13	PASS
Band2	3MHz	16QAM	18900	6	0	Low	5.85	<=13	PASS
Band2	3MHz	QPSK	19185	1	5	High	4.18	<=13	PASS
Band2	3MHz	16QAM	19185	1	5	High	5.01	<=13	PASS
Band2	3MHz	QPSK	19185	6	0	High	5.26	<=13	PASS
Band2	3MHz	16QAM	19185	6	0	High	5.89	<=13	PASS
Band2	5MHz	QPSK	18625	1	0	Low	3.66	<=13	PASS
Band2	5MHz	16QAM	18625	1	0	Low	3.85	<=13	PASS
Band2	5MHz	QPSK	18625	6	0	Low	4.62	<=13	PASS
Band2	5MHz	16QAM	18625	6	0	Low	6.24	<=13	PASS
Band2	5MHz	QPSK	18900	1	0	Low	3.78	<=13	PASS
Band2	5MHz	16QAM	18900	1	0	Low	3.98	<=13	PASS
Band2	5MHz	QPSK	18900	6	0	Low	4.69	<=13	PASS
Band2	5MHz	16QAM	18900	6	0	Low	5.98	<=13	PASS
Band2	5MHz	QPSK	19175	1	5	High	4.33	<=13	PASS
Band2	5MHz	16QAM	19175	1	5	High	4.10	<=13	PASS
Band2	5MHz	QPSK	19175	6	0	High	4.90	<=13	PASS

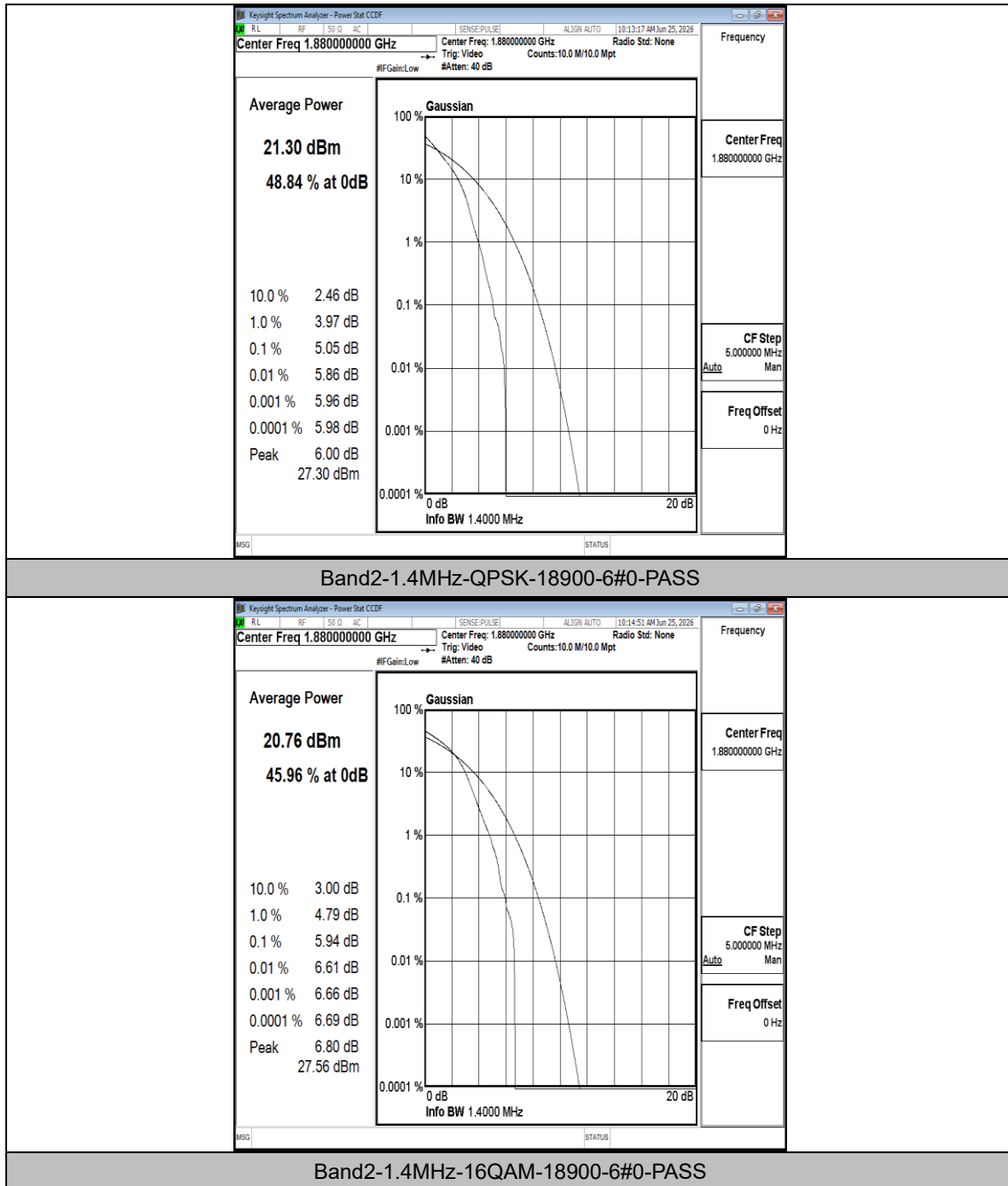
Band2	5MHz	16QAM	19175	6	0	High	6.31	<=13	PASS
Band2	10MHz	QPSK	18650	1	0	Low	3.57	<=13	PASS
Band2	10MHz	16QAM	18650	1	0	Low	3.76	<=13	PASS
Band2	10MHz	QPSK	18650	6	0	Low	4.26	<=13	PASS
Band2	10MHz	16QAM	18650	6	0	Low	5.86	<=13	PASS
Band2	10MHz	QPSK	18900	1	0	Low	3.76	<=13	PASS
Band2	10MHz	16QAM	18900	1	0	Low	3.92	<=13	PASS
Band2	10MHz	QPSK	18900	6	0	Low	4.42	<=13	PASS
Band2	10MHz	16QAM	18900	6	0	Low	5.86	<=13	PASS
Band2	10MHz	QPSK	19150	1	5	High	3.93	<=13	PASS
Band2	10MHz	16QAM	19150	1	5	High	3.99	<=13	PASS
Band2	10MHz	QPSK	19150	6	0	High	4.51	<=13	PASS
Band2	10MHz	16QAM	19150	6	0	High	5.98	<=13	PASS
Band2	15MHz	QPSK	18675	1	0	Low	3.60	<=13	PASS
Band2	15MHz	16QAM	18675	1	0	Low	3.76	<=13	PASS
Band2	15MHz	QPSK	18675	6	0	Low	3.69	<=13	PASS
Band2	15MHz	16QAM	18675	6	0	Low	4.32	<=13	PASS
Band2	15MHz	QPSK	18900	1	0	Low	3.75	<=13	PASS
Band2	15MHz	16QAM	18900	1	0	Low	3.92	<=13	PASS
Band2	15MHz	QPSK	18900	6	0	Low	3.82	<=13	PASS
Band2	15MHz	16QAM	18900	6	0	Low	4.51	<=13	PASS
Band2	15MHz	QPSK	19125	1	5	High	3.96	<=13	PASS
Band2	15MHz	16QAM	19125	1	5	High	3.98	<=13	PASS
Band2	15MHz	QPSK	19125	6	0	High	4.04	<=13	PASS
Band2	15MHz	16QAM	19125	6	0	High	4.67	<=13	PASS
Band2	20MHz	QPSK	18700	1	0	Low	3.59	<=13	PASS
Band2	20MHz	16QAM	18700	1	0	Low	3.79	<=13	PASS
Band2	20MHz	QPSK	18700	6	0	Low	4.10	<=13	PASS
Band2	20MHz	16QAM	18700	6	0	Low	4.28	<=13	PASS
Band2	20MHz	QPSK	18900	1	0	Low	3.77	<=13	PASS
Band2	20MHz	16QAM	18900	1	0	Low	3.93	<=13	PASS
Band2	20MHz	QPSK	18900	6	0	Low	4.18	<=13	PASS
Band2	20MHz	16QAM	18900	6	0	Low	4.52	<=13	PASS
Band2	20MHz	QPSK	19100	1	5	High	3.99	<=13	PASS
Band2	20MHz	16QAM	19100	1	5	High	3.98	<=13	PASS
Band2	20MHz	QPSK	19100	6	0	High	4.17	<=13	PASS
Band2	20MHz	16QAM	19100	6	0	High	4.67	<=13	PASS

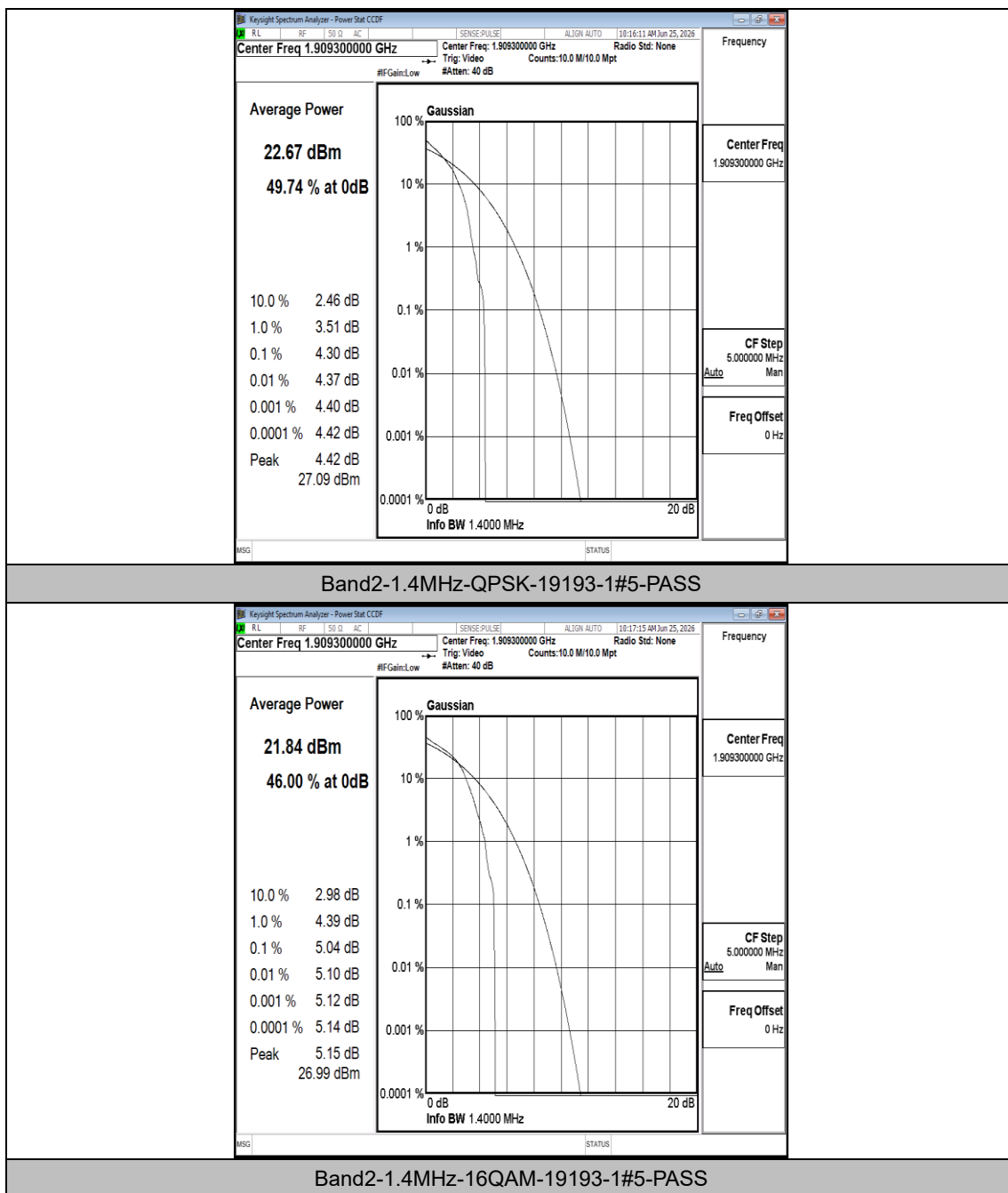
Test Graphs

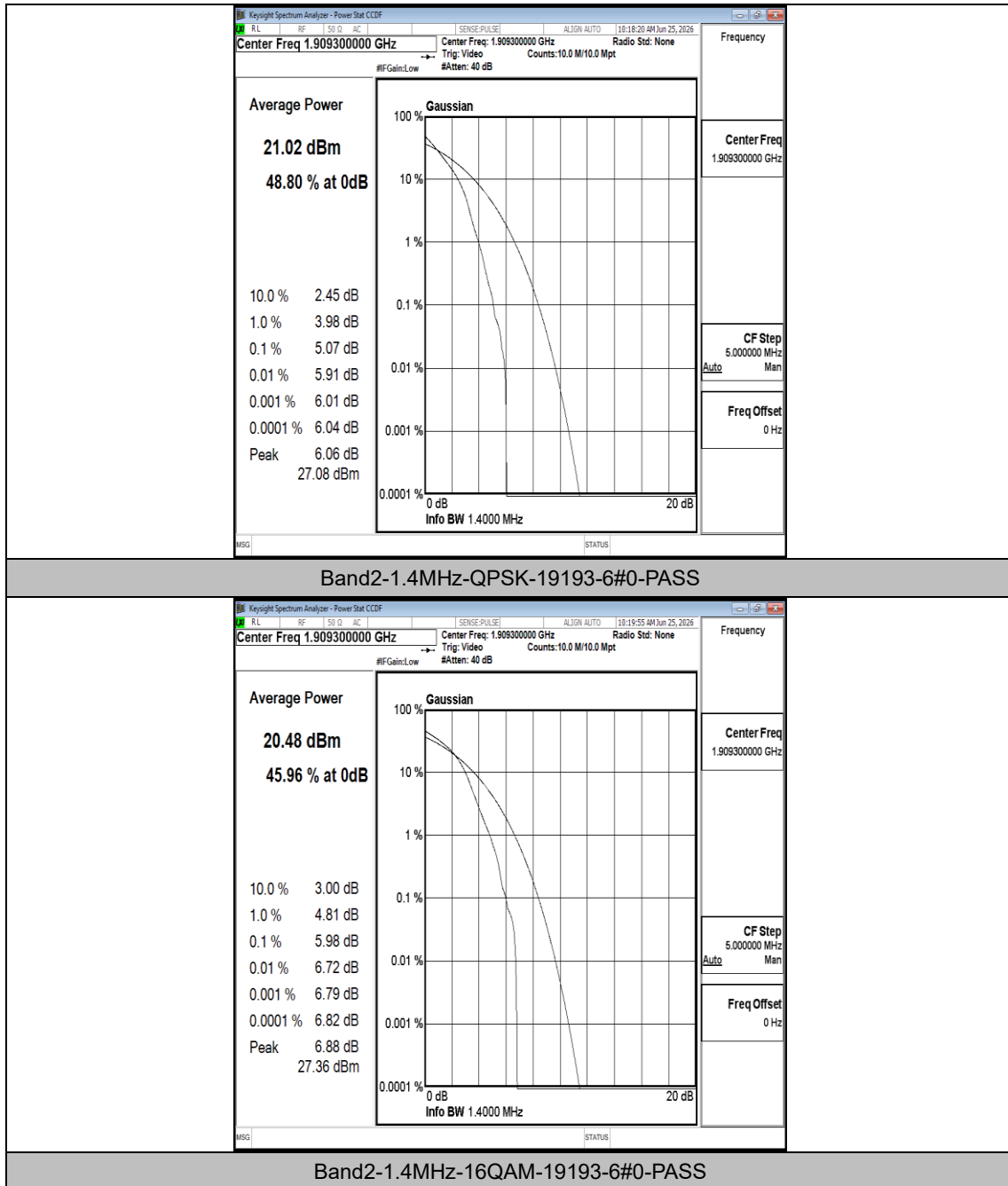


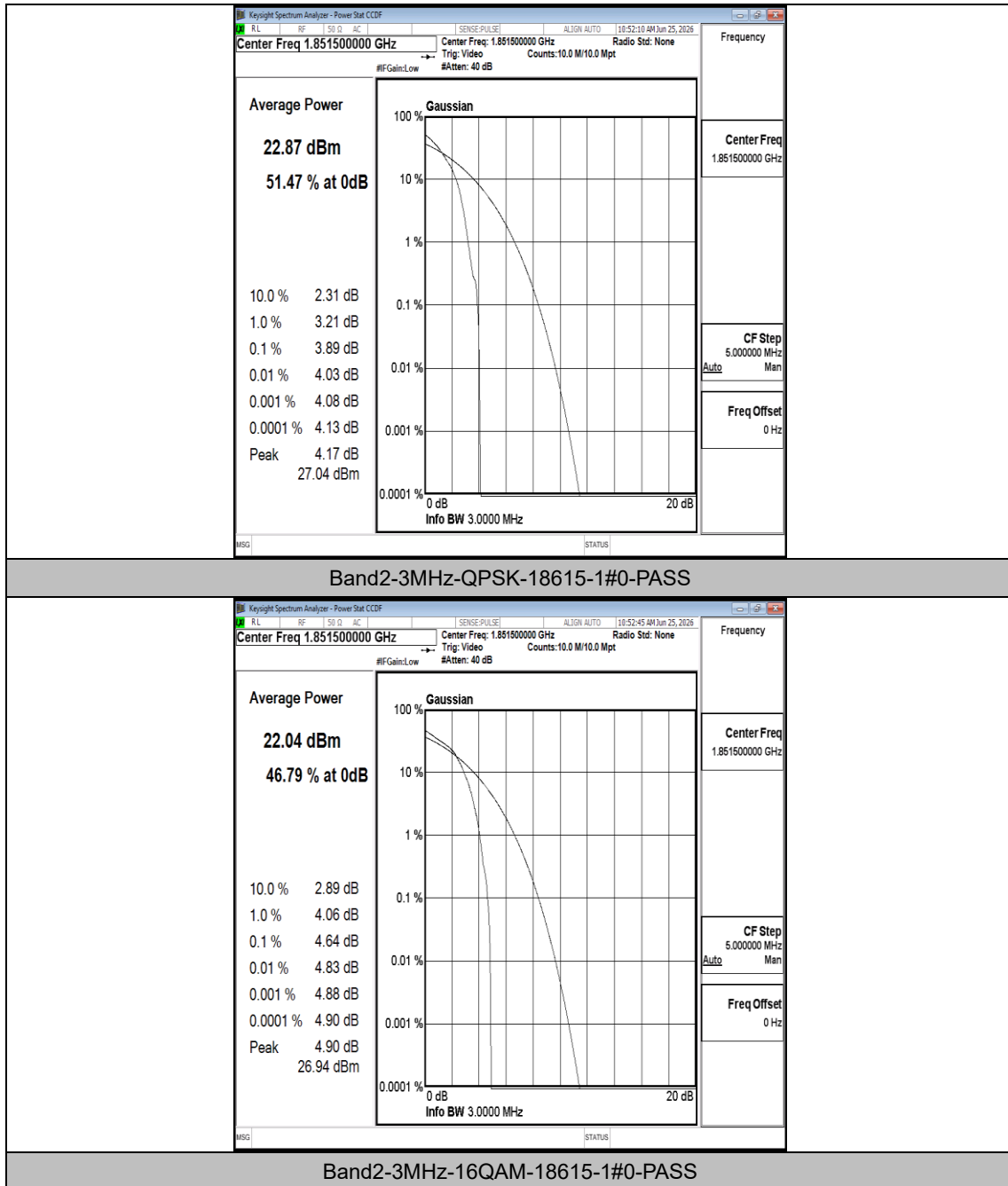


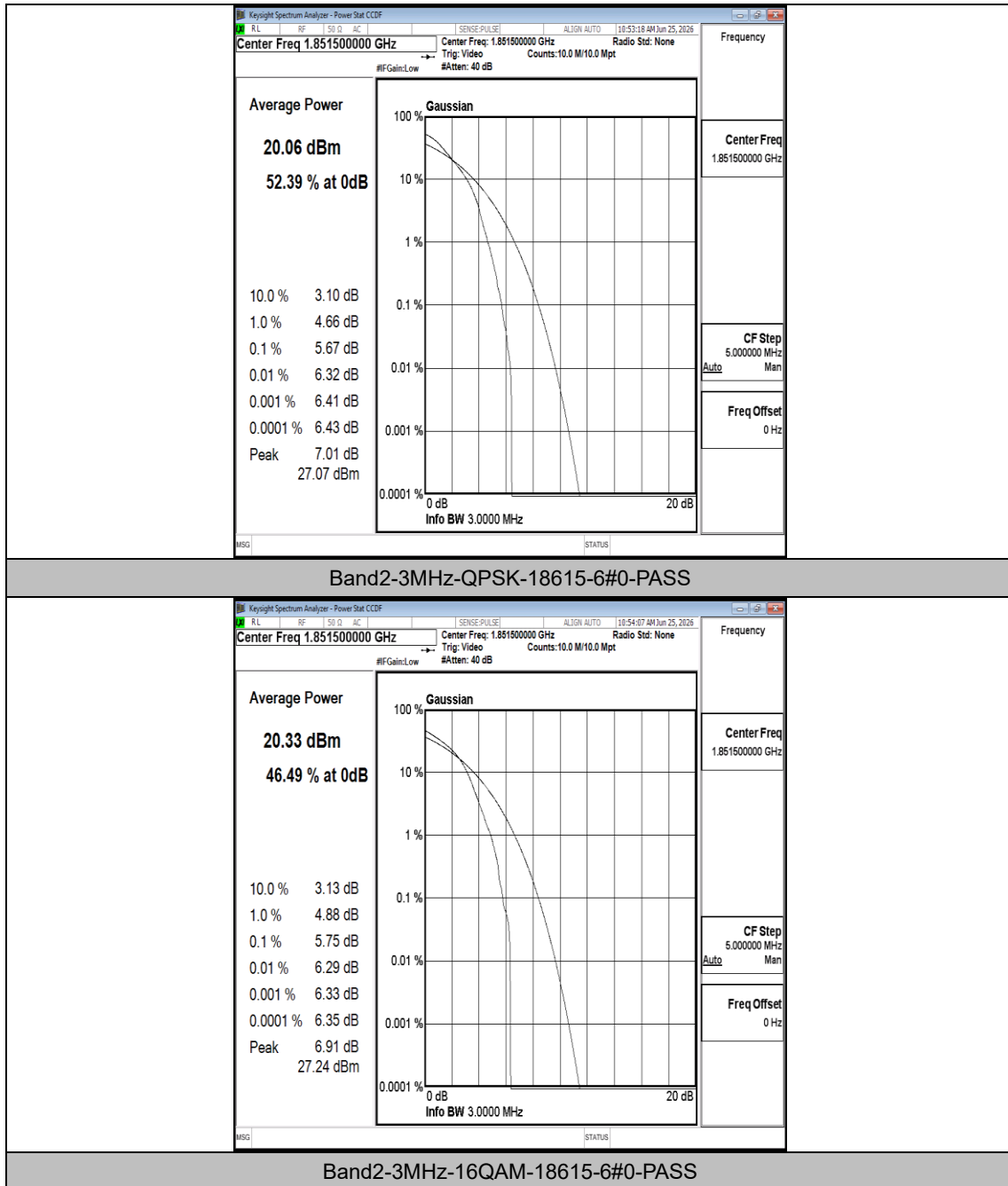


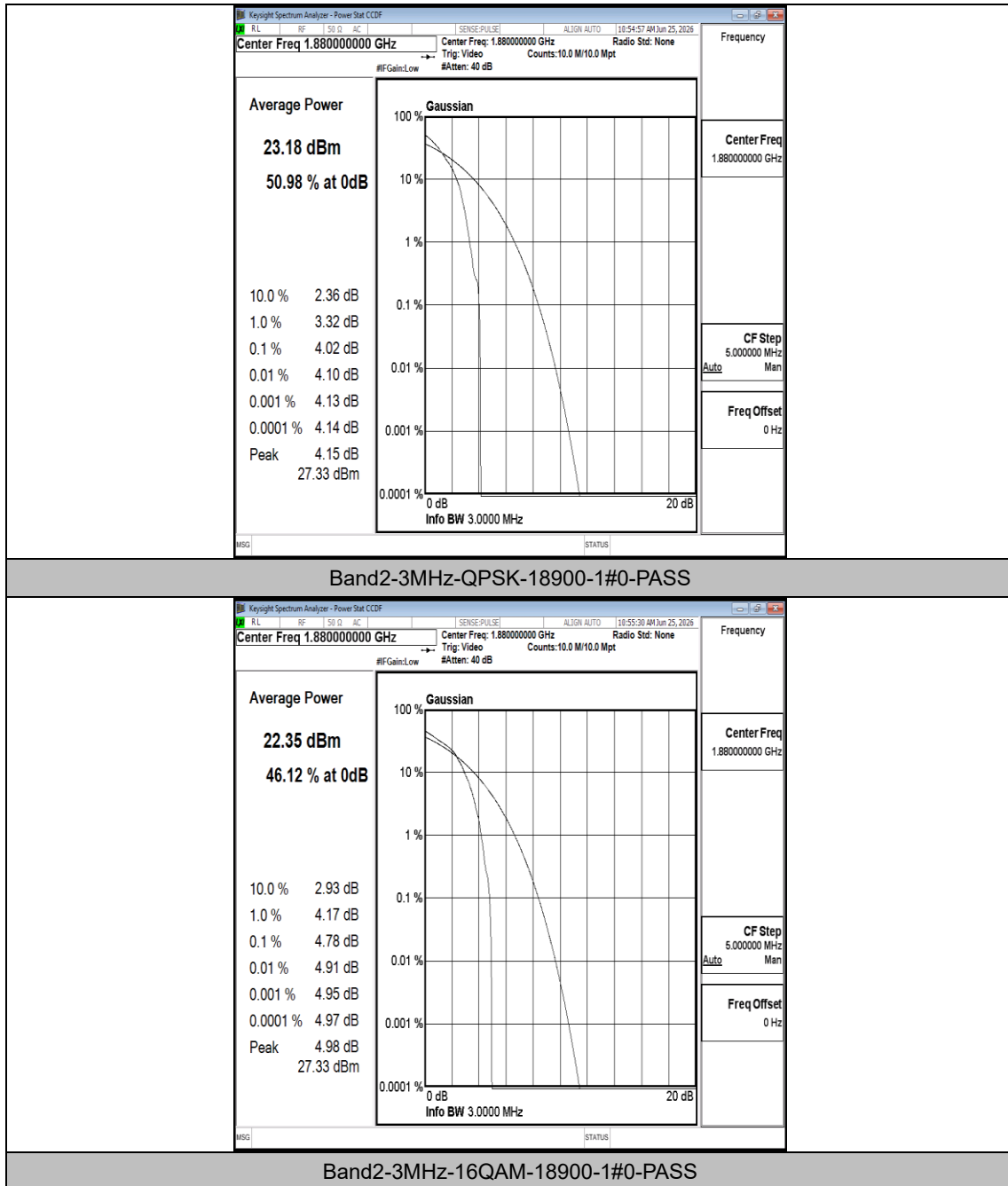


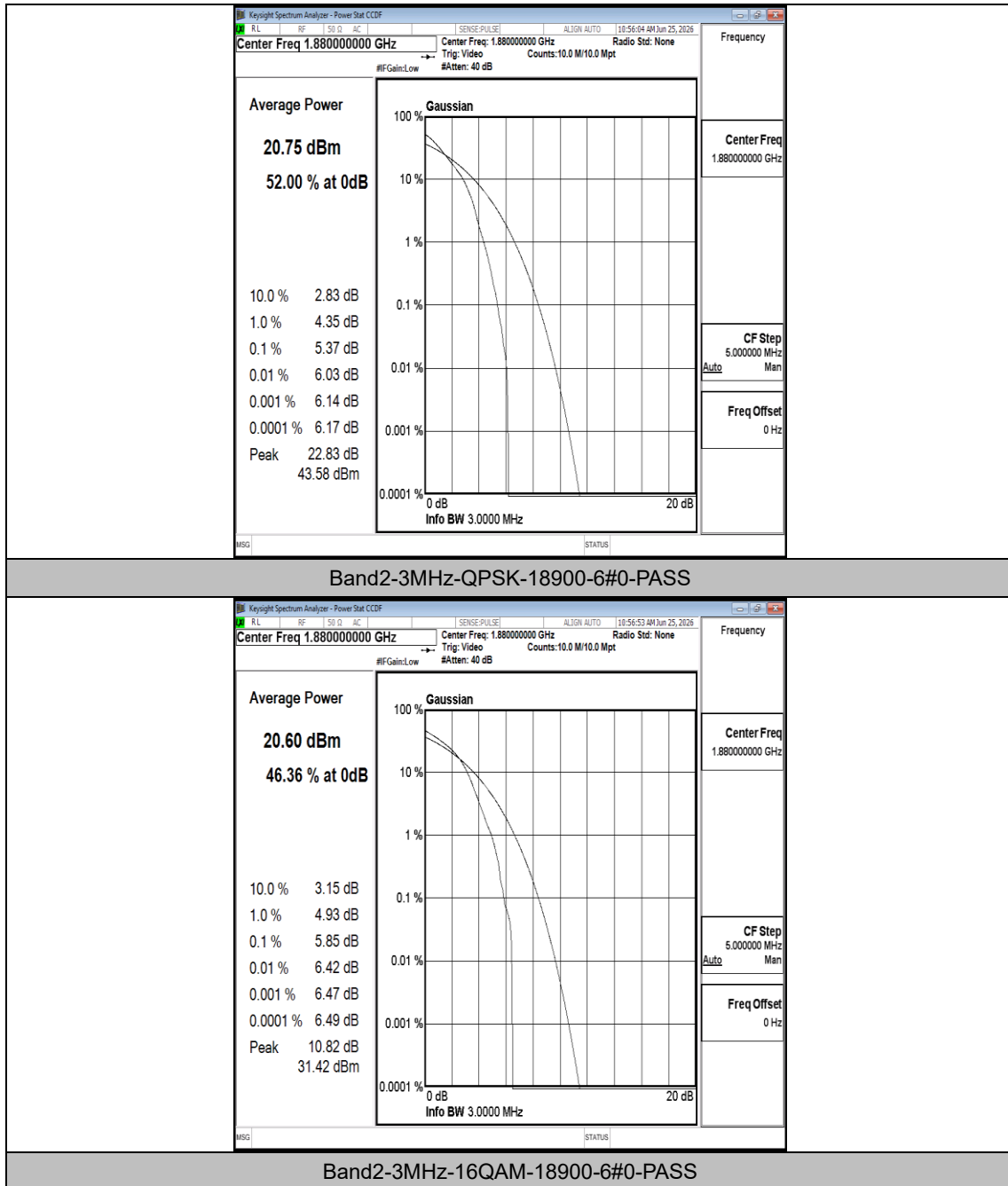


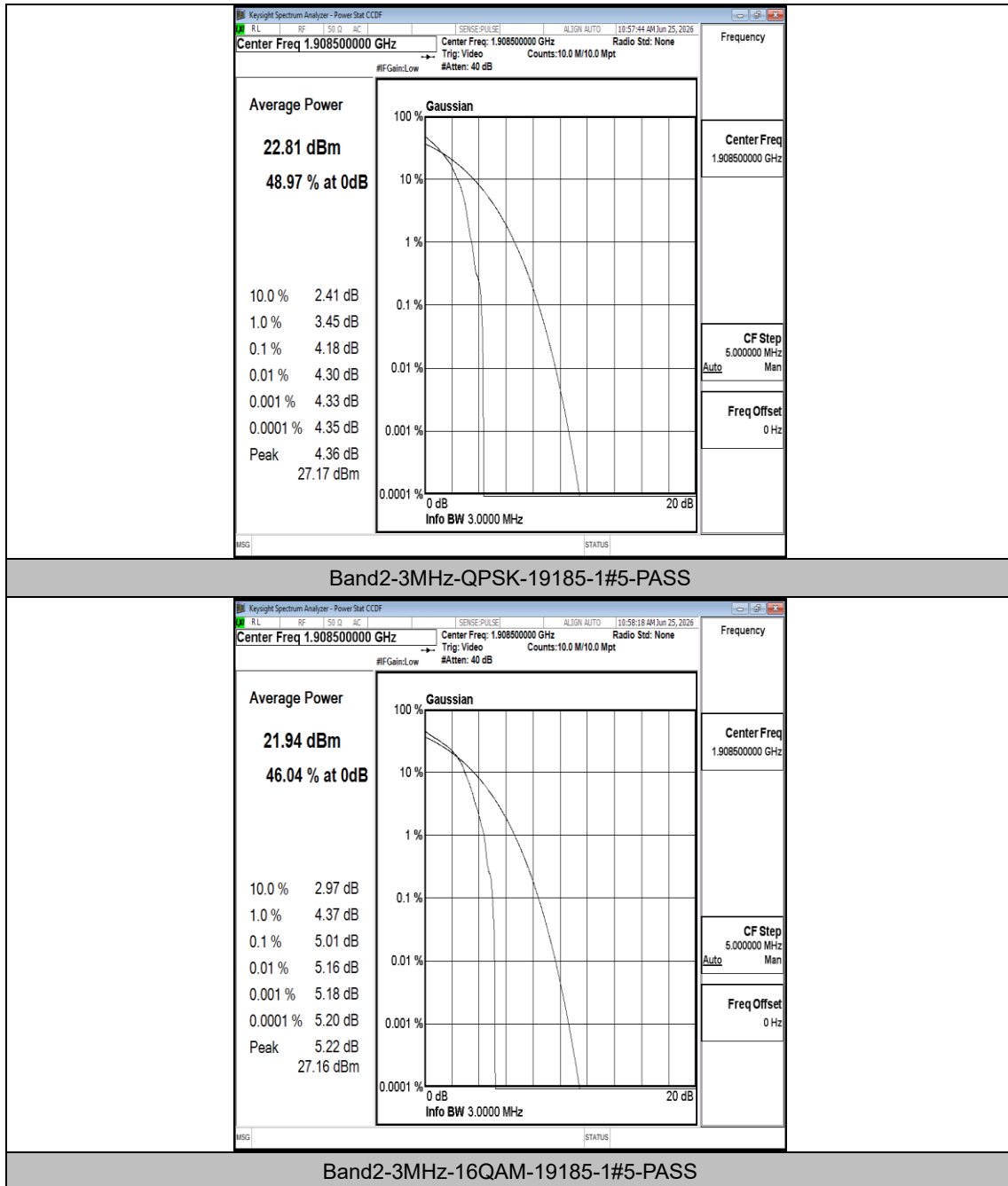


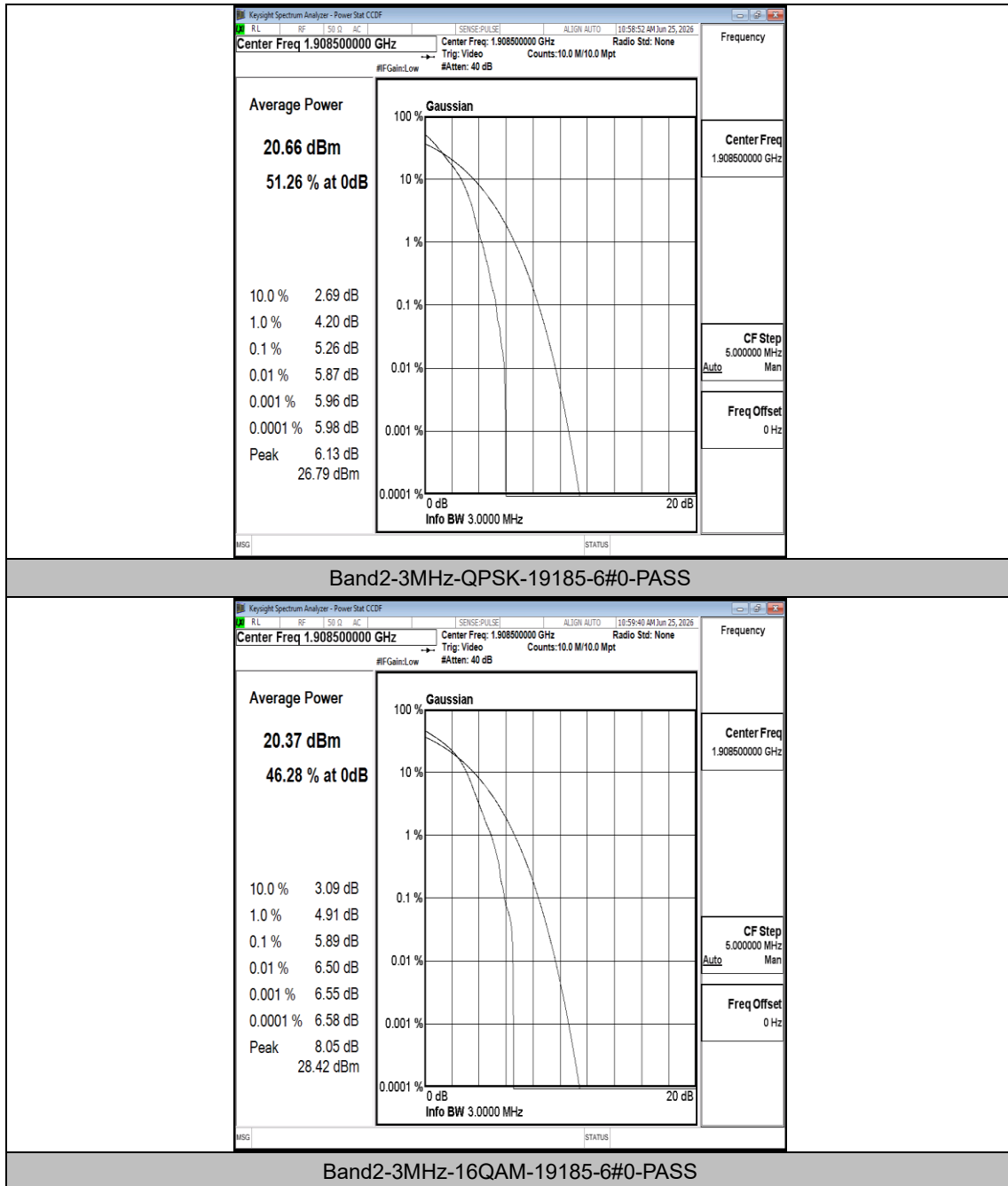


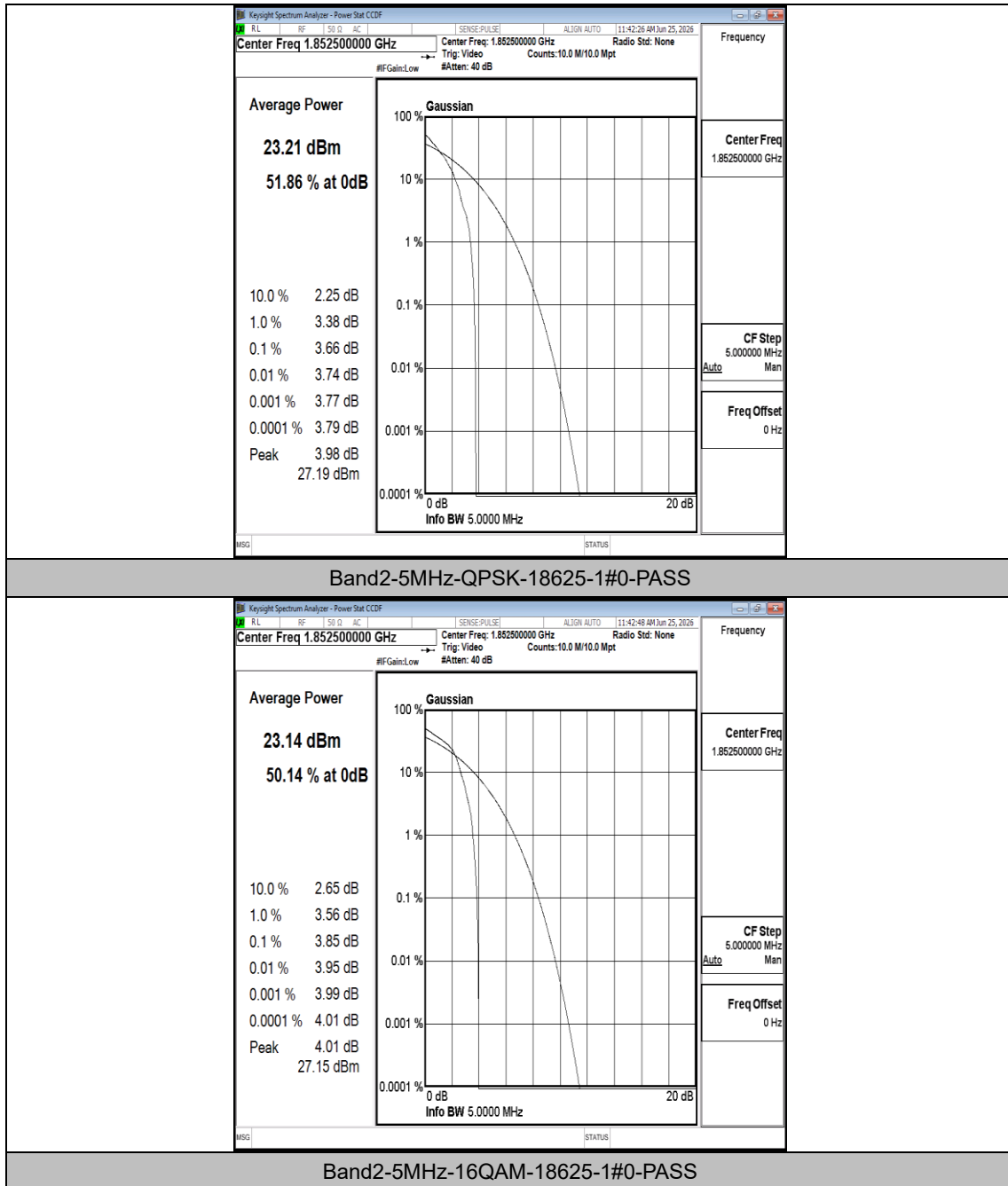


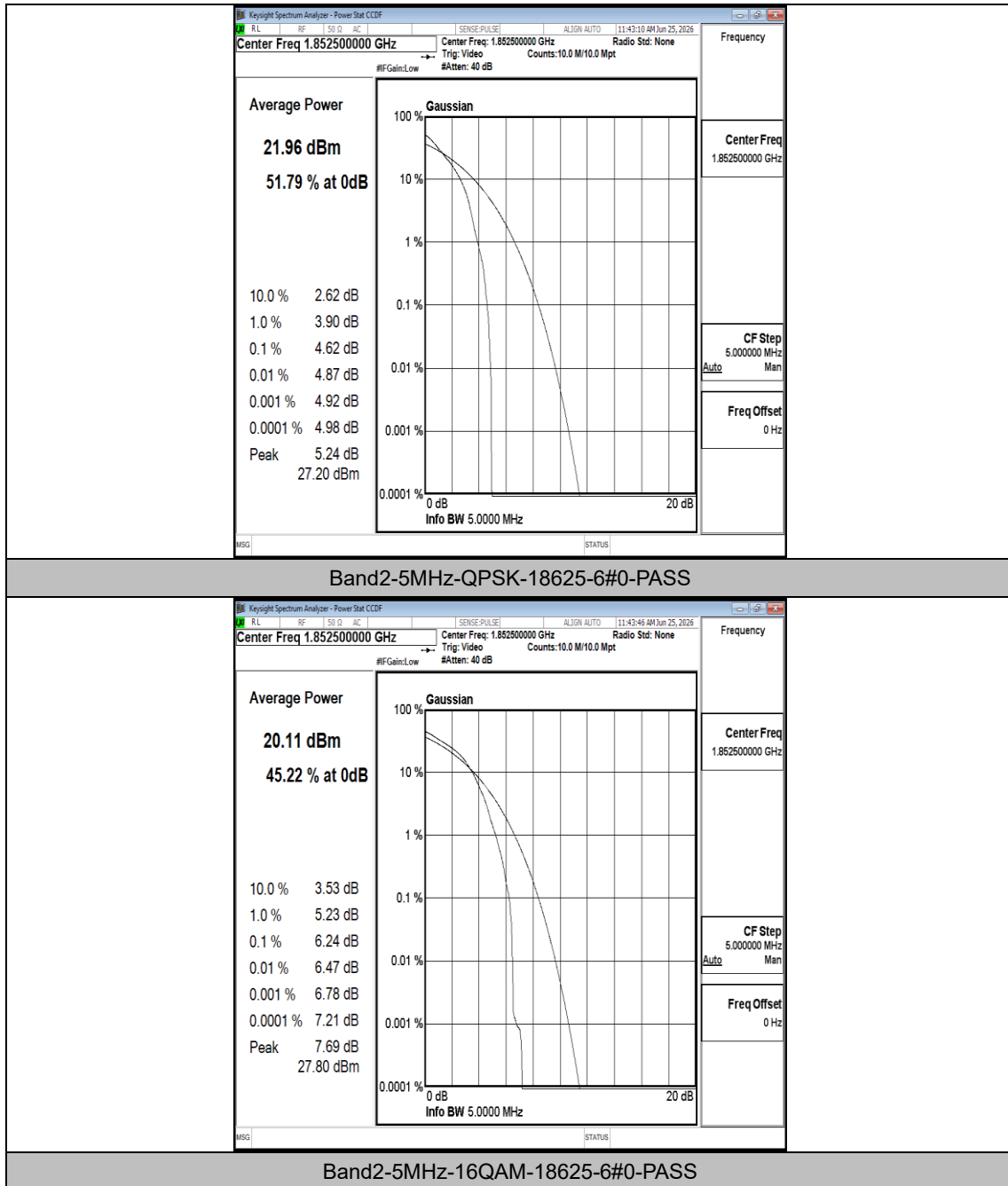


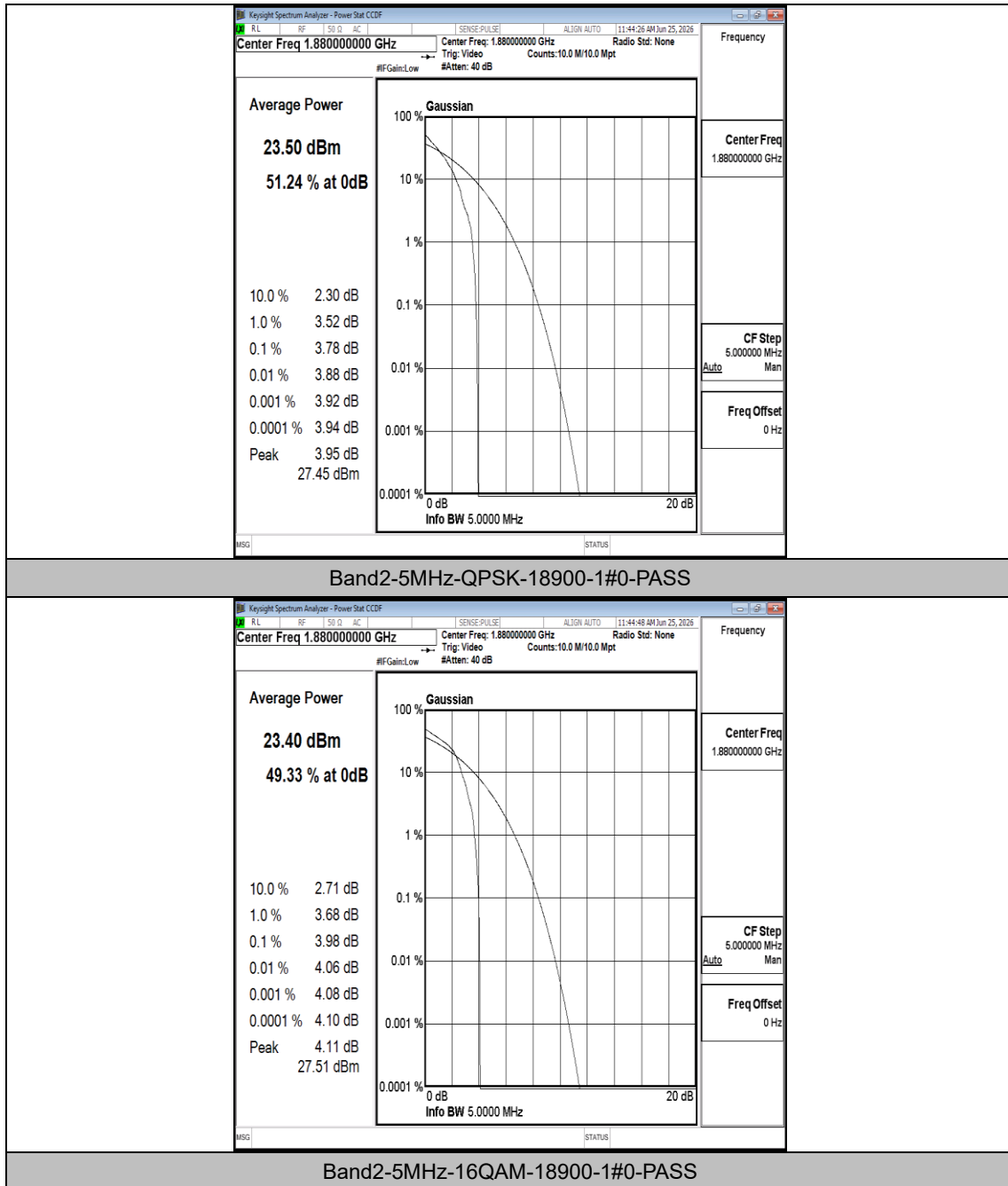


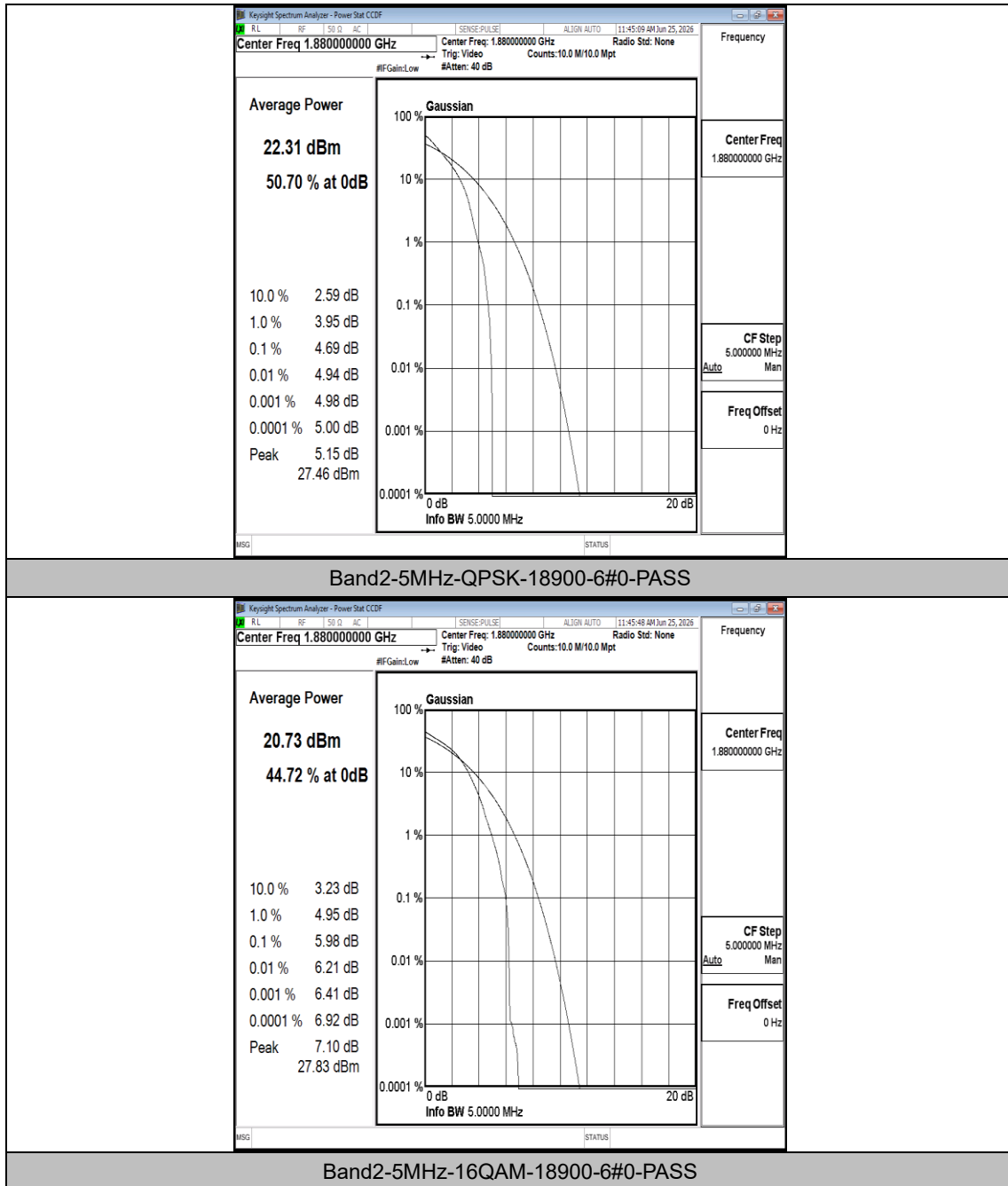


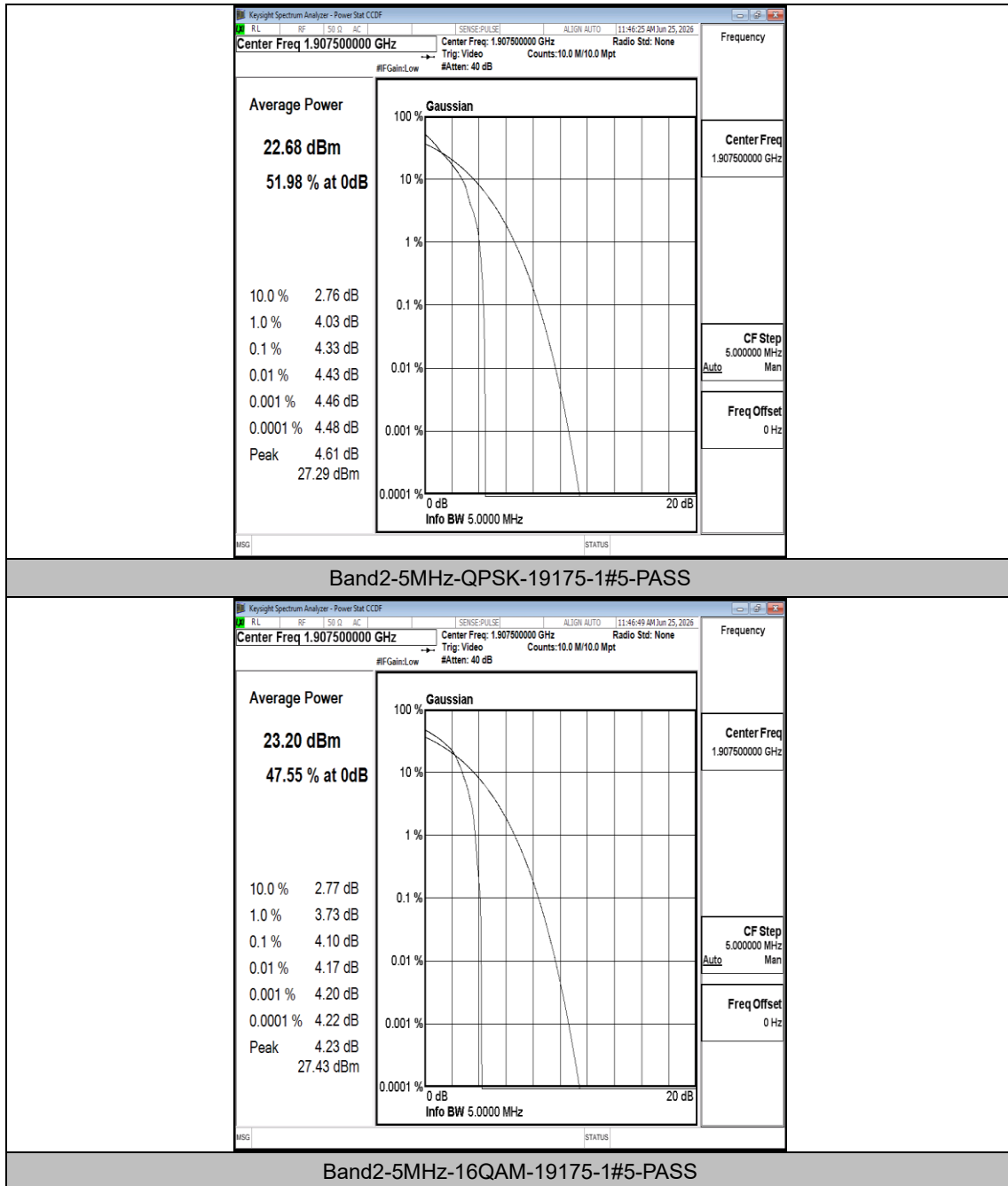


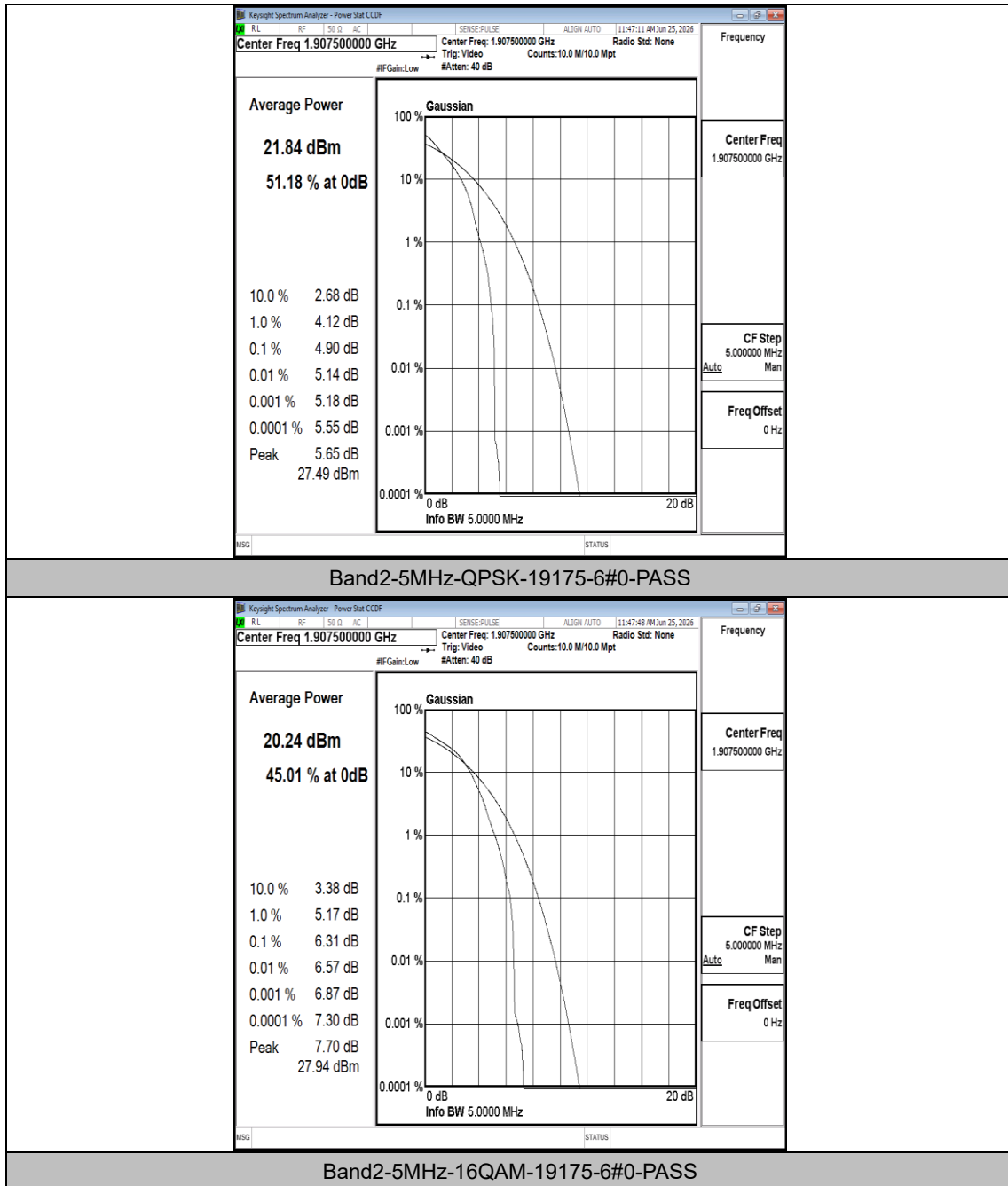


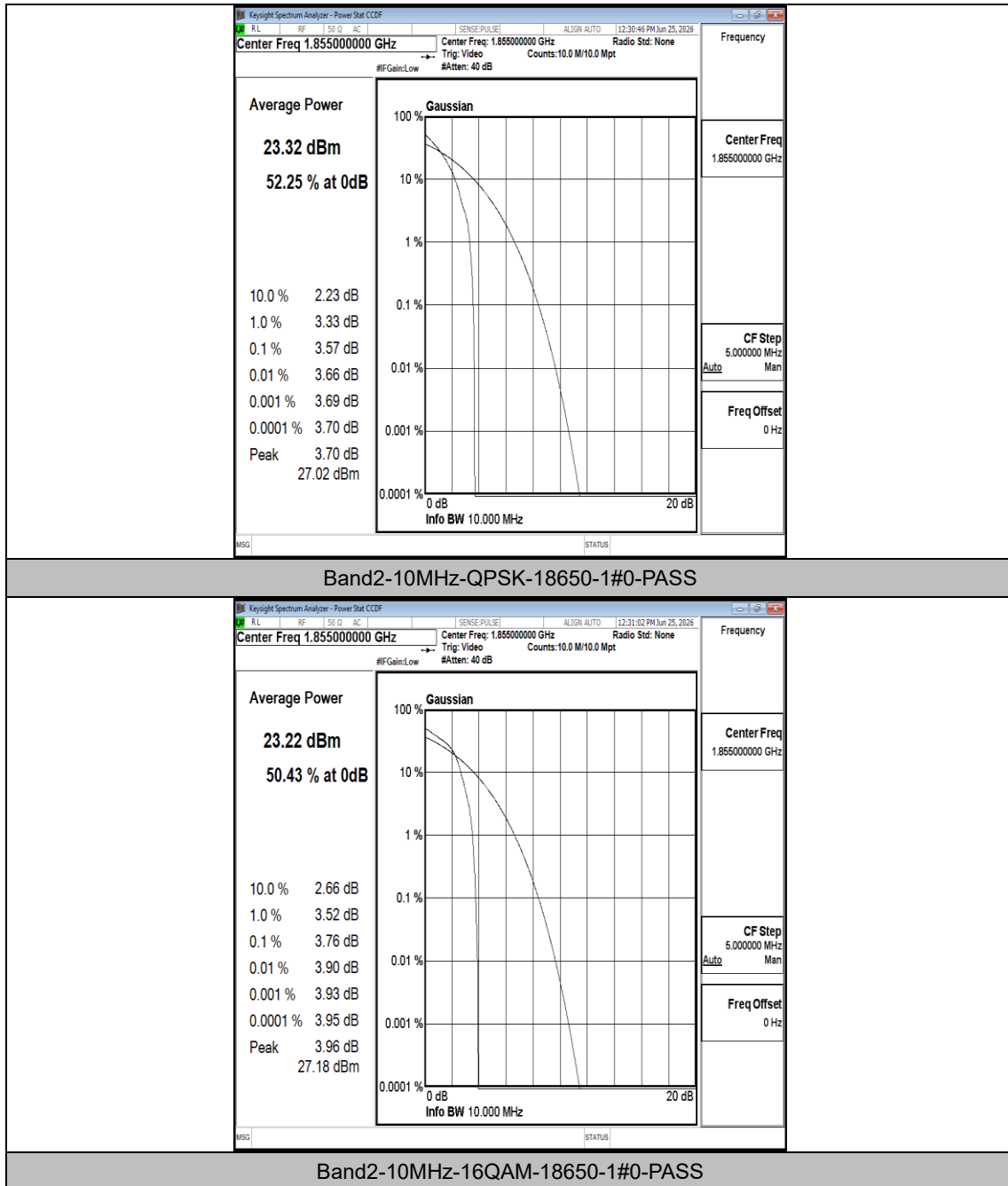


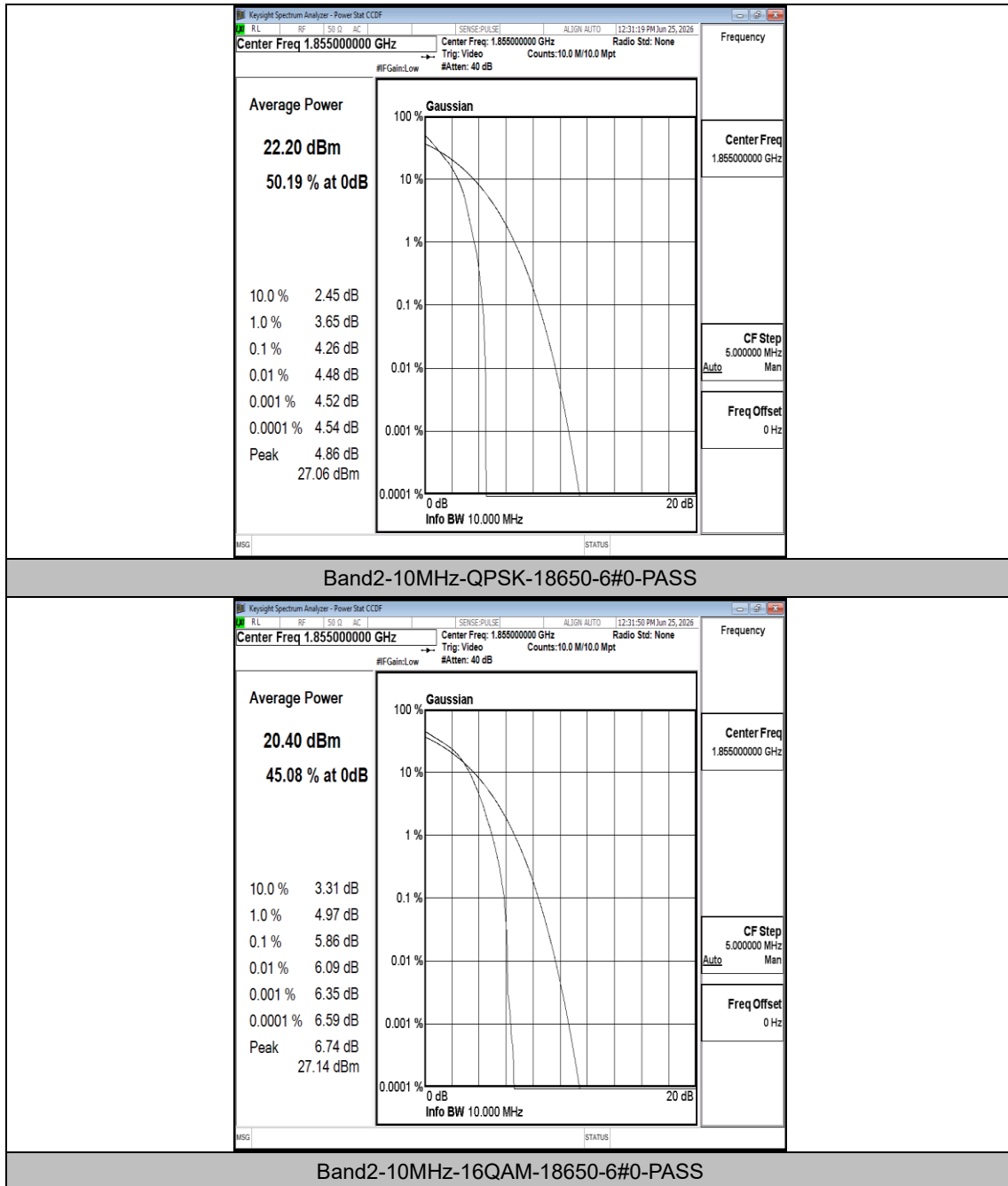


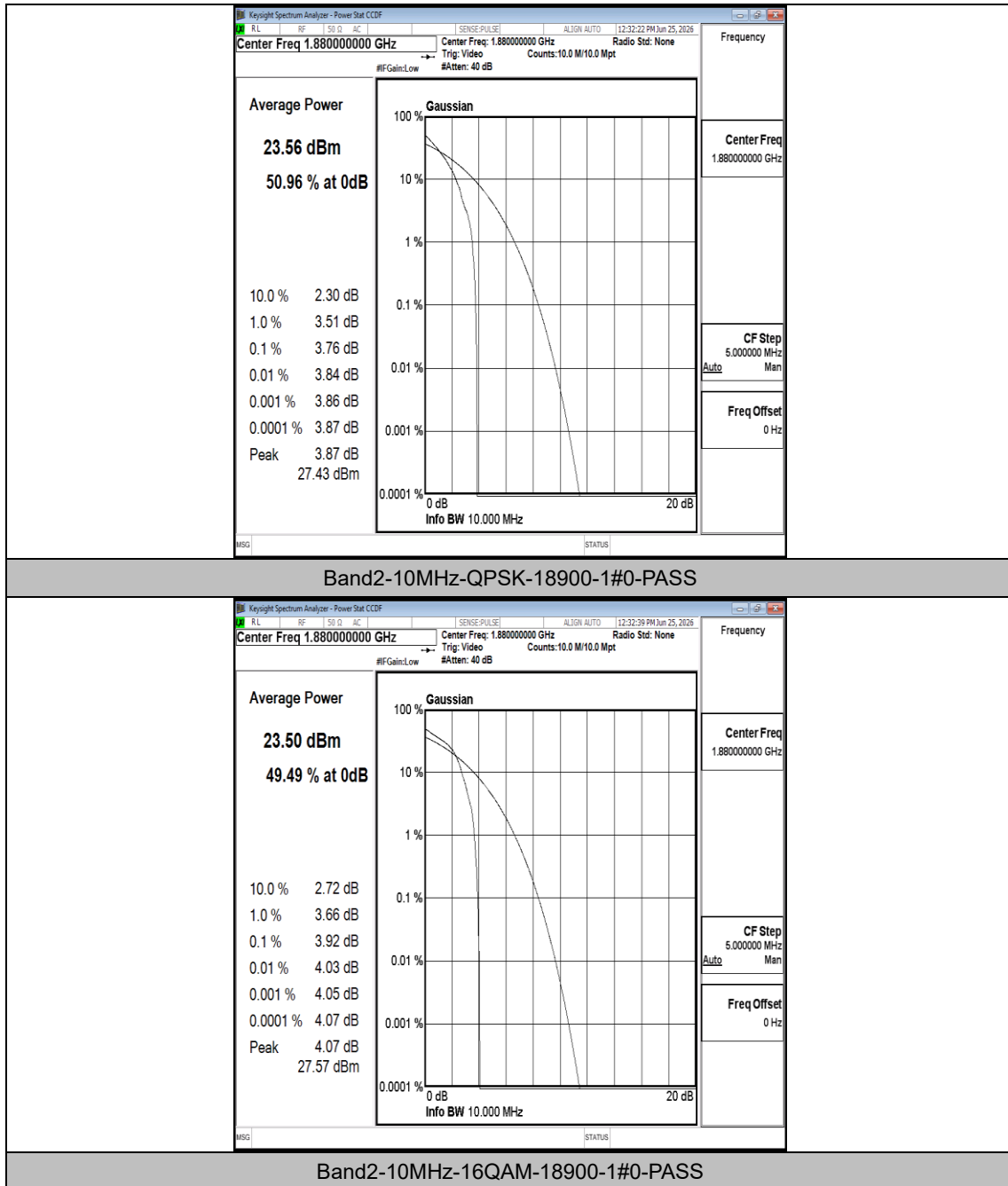


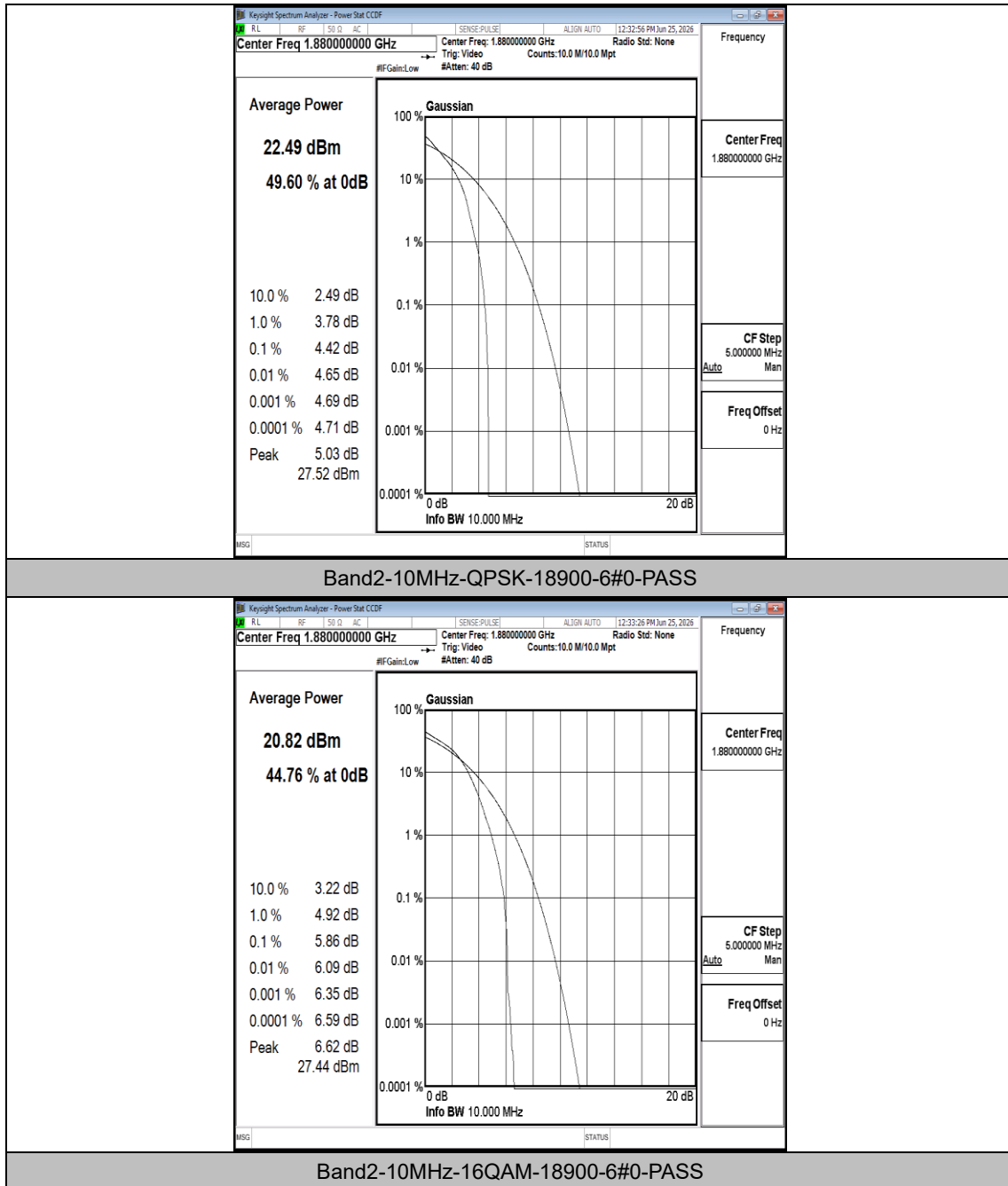


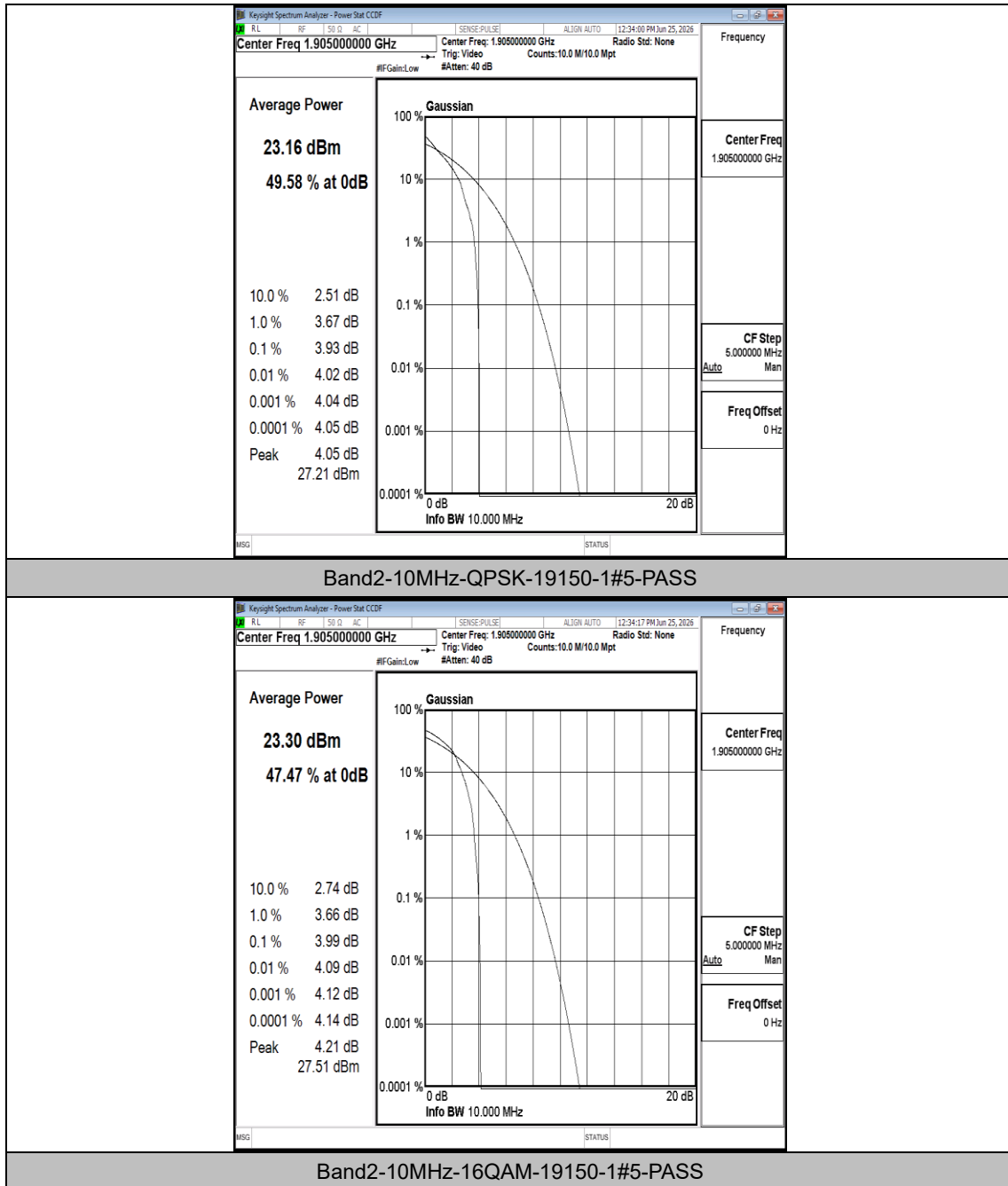


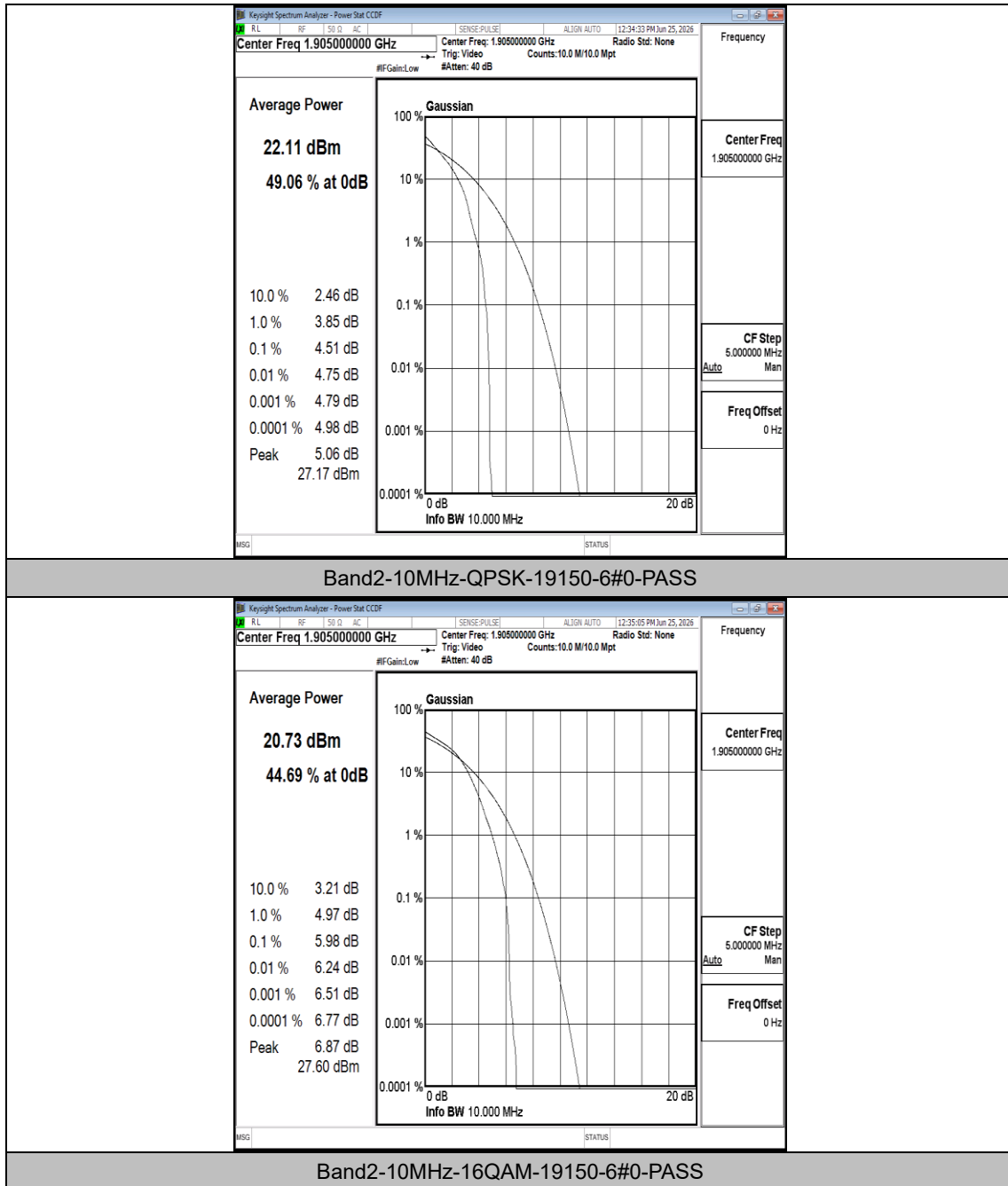


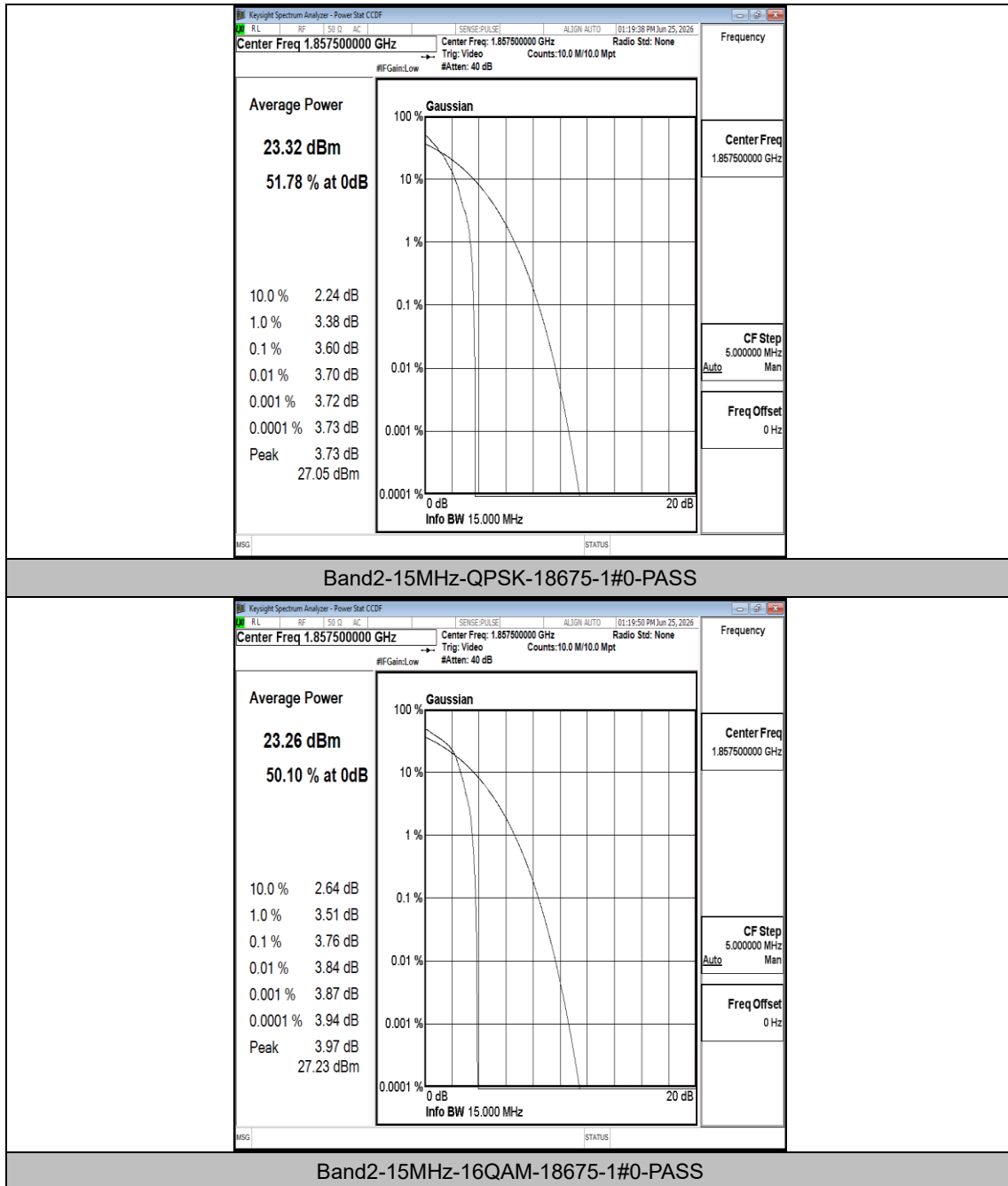


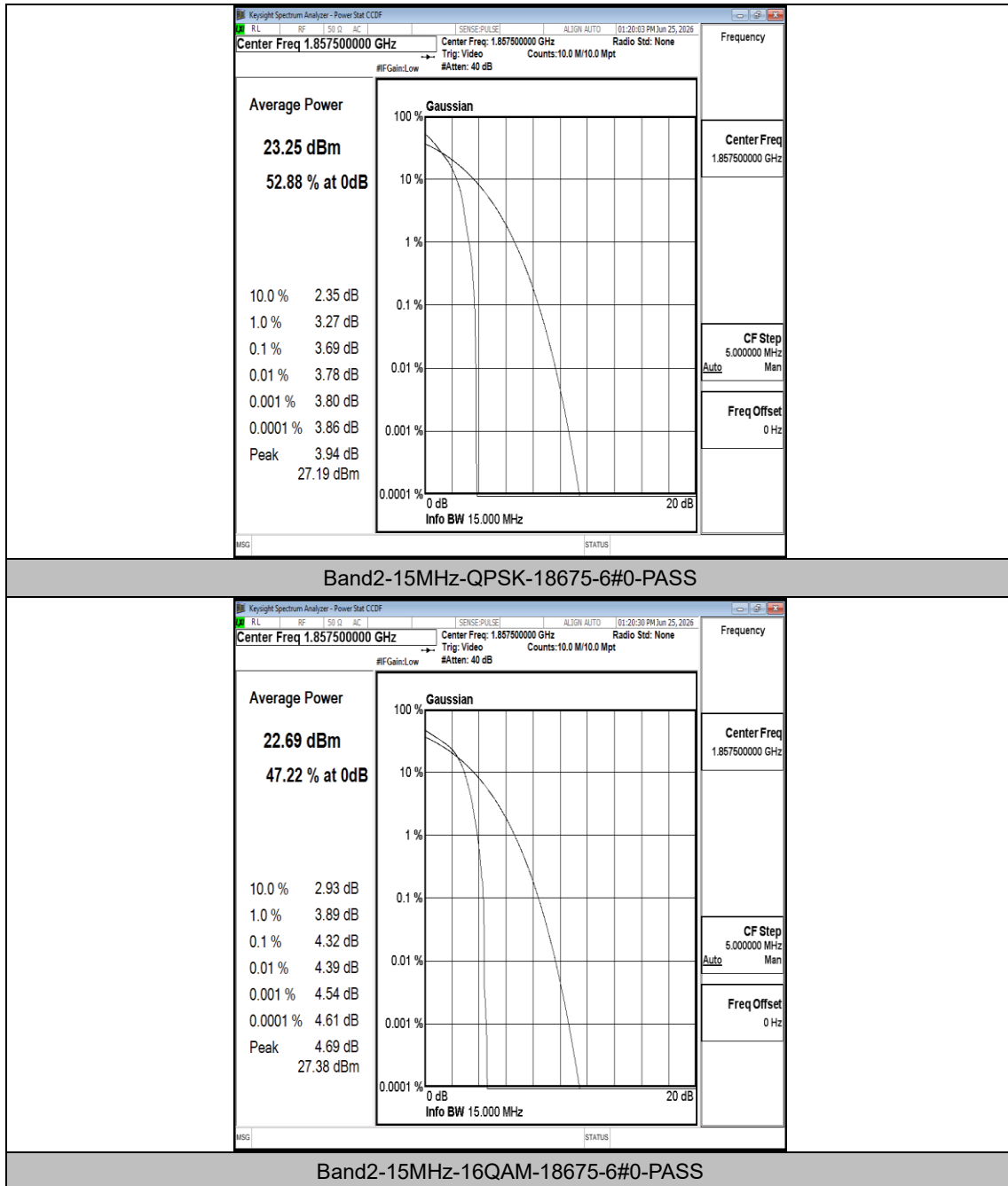


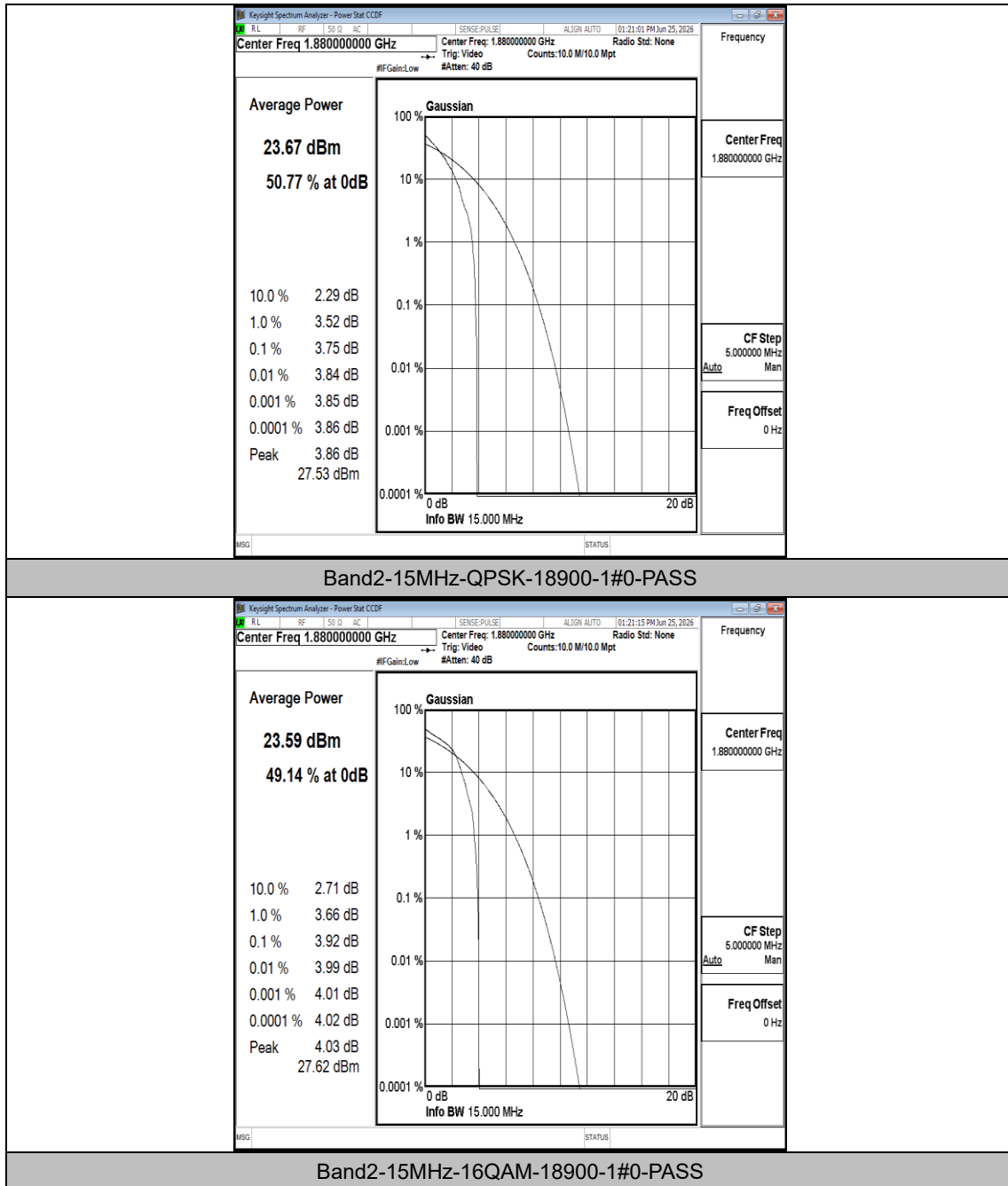


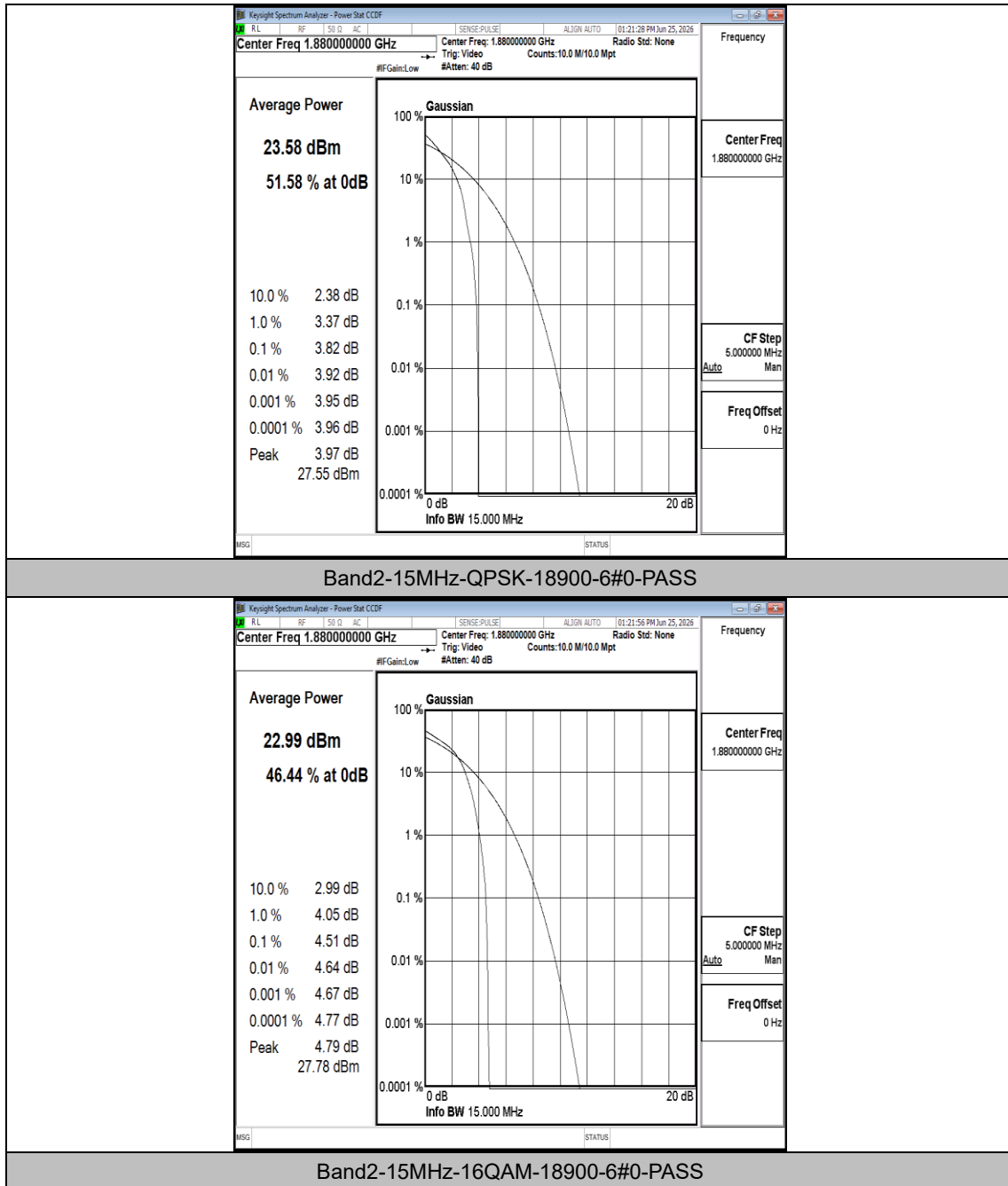


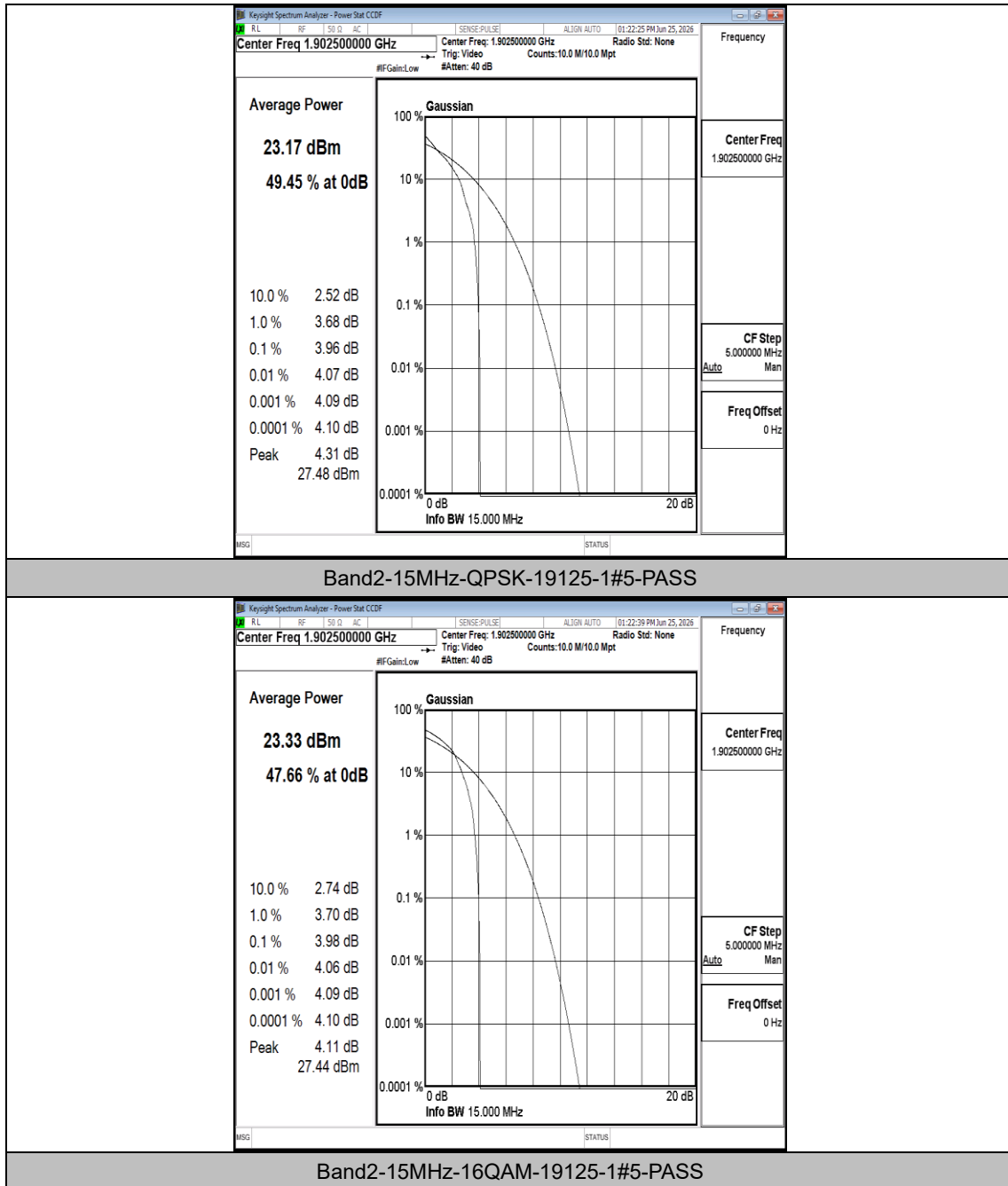


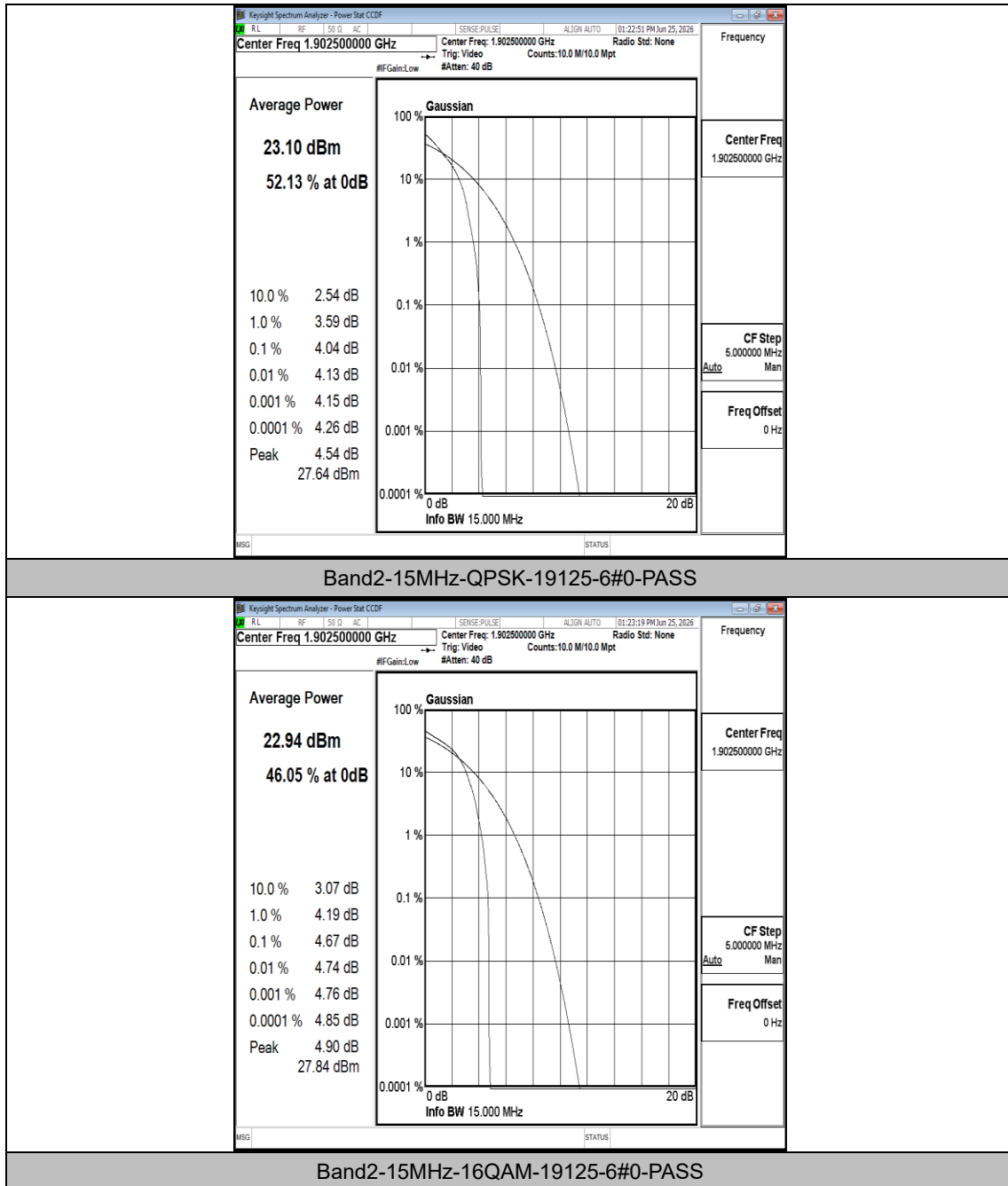


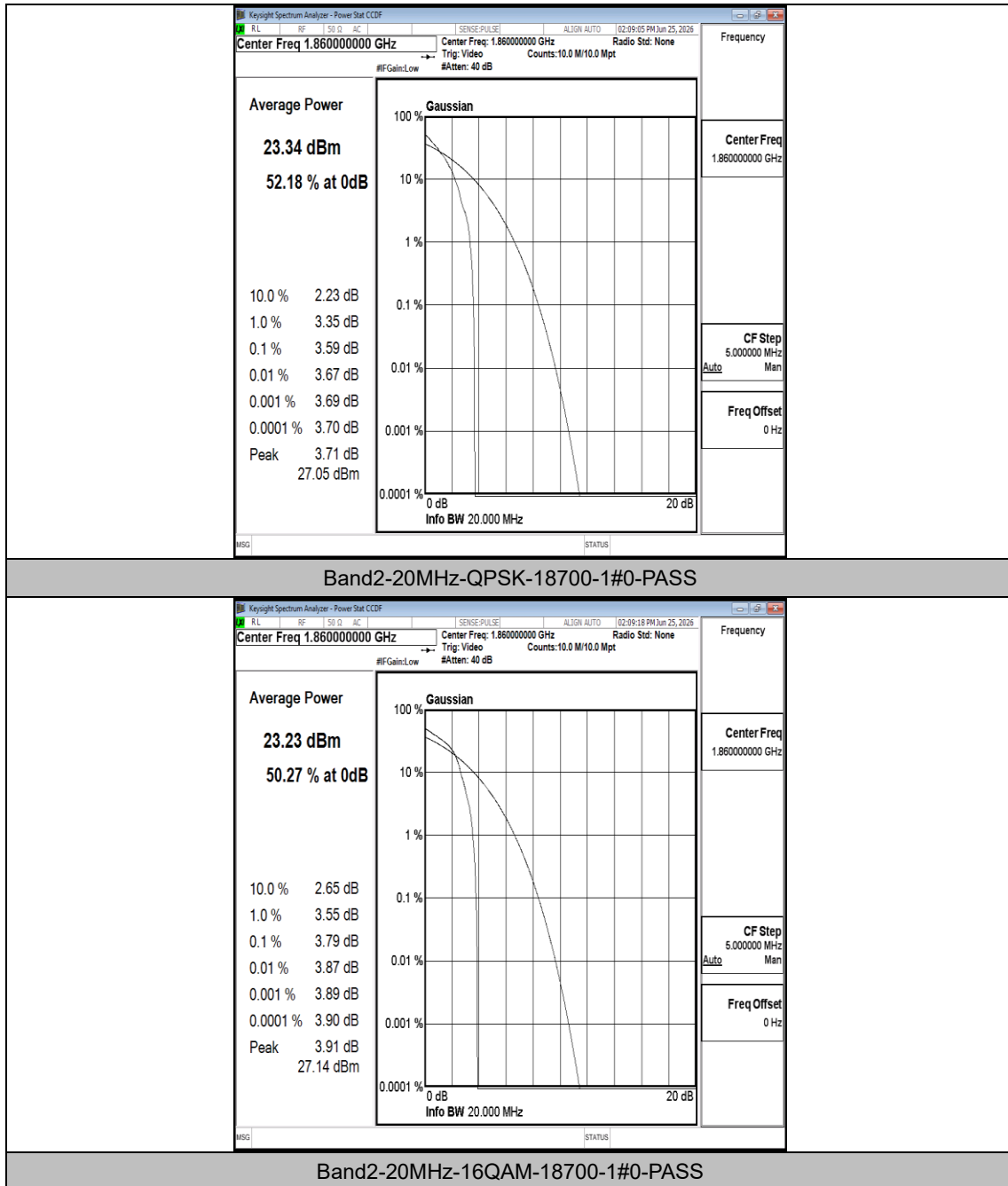


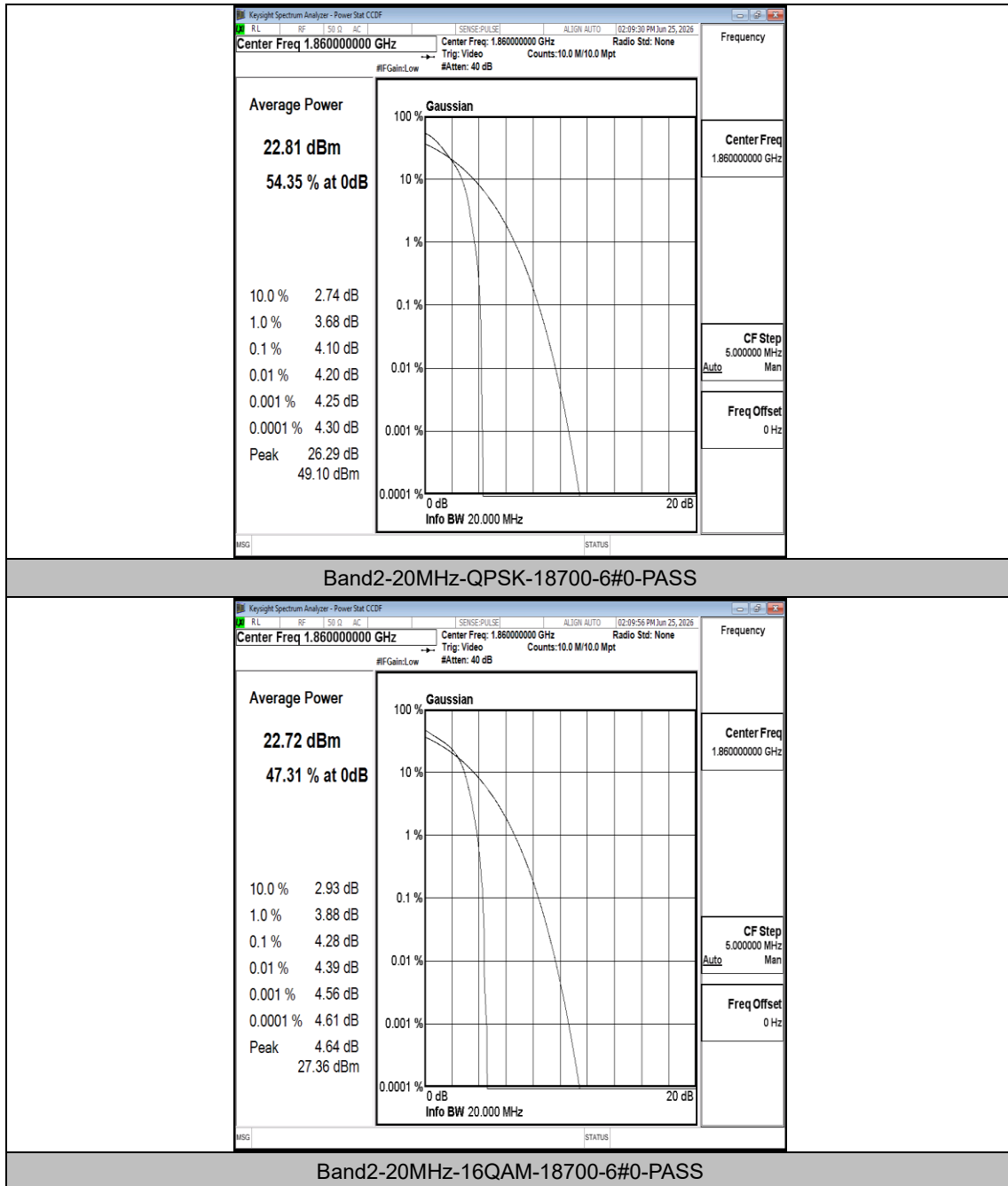


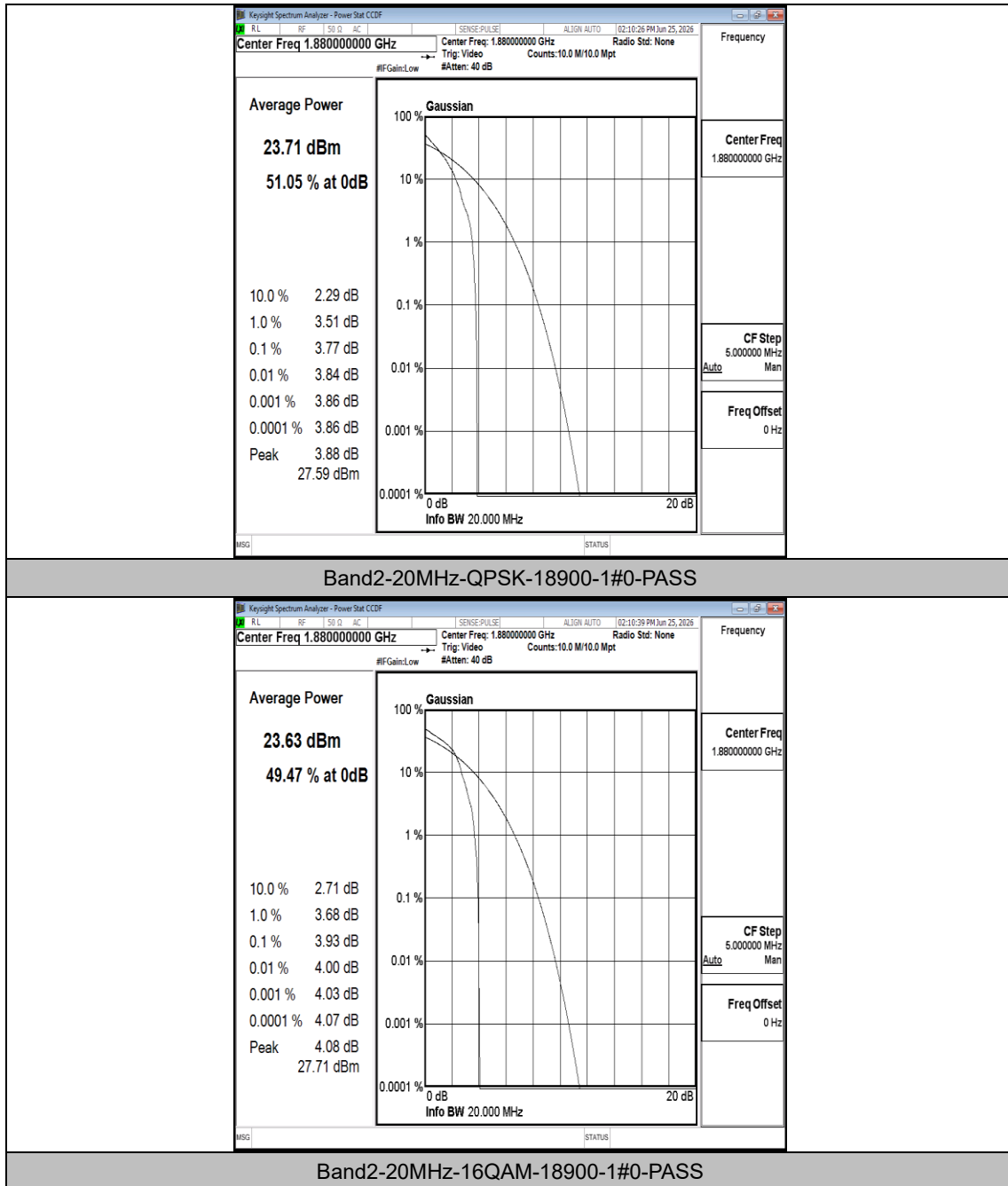


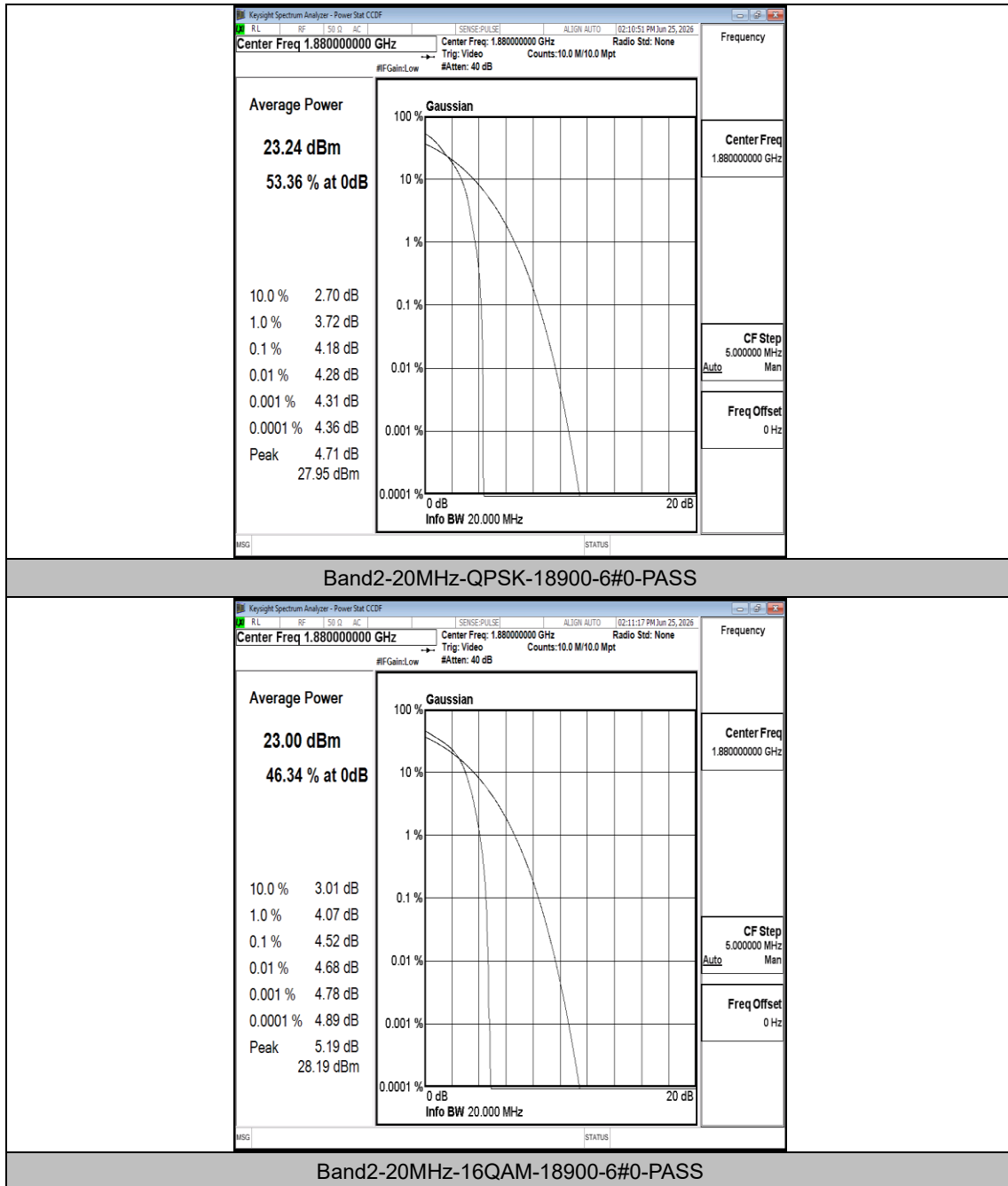


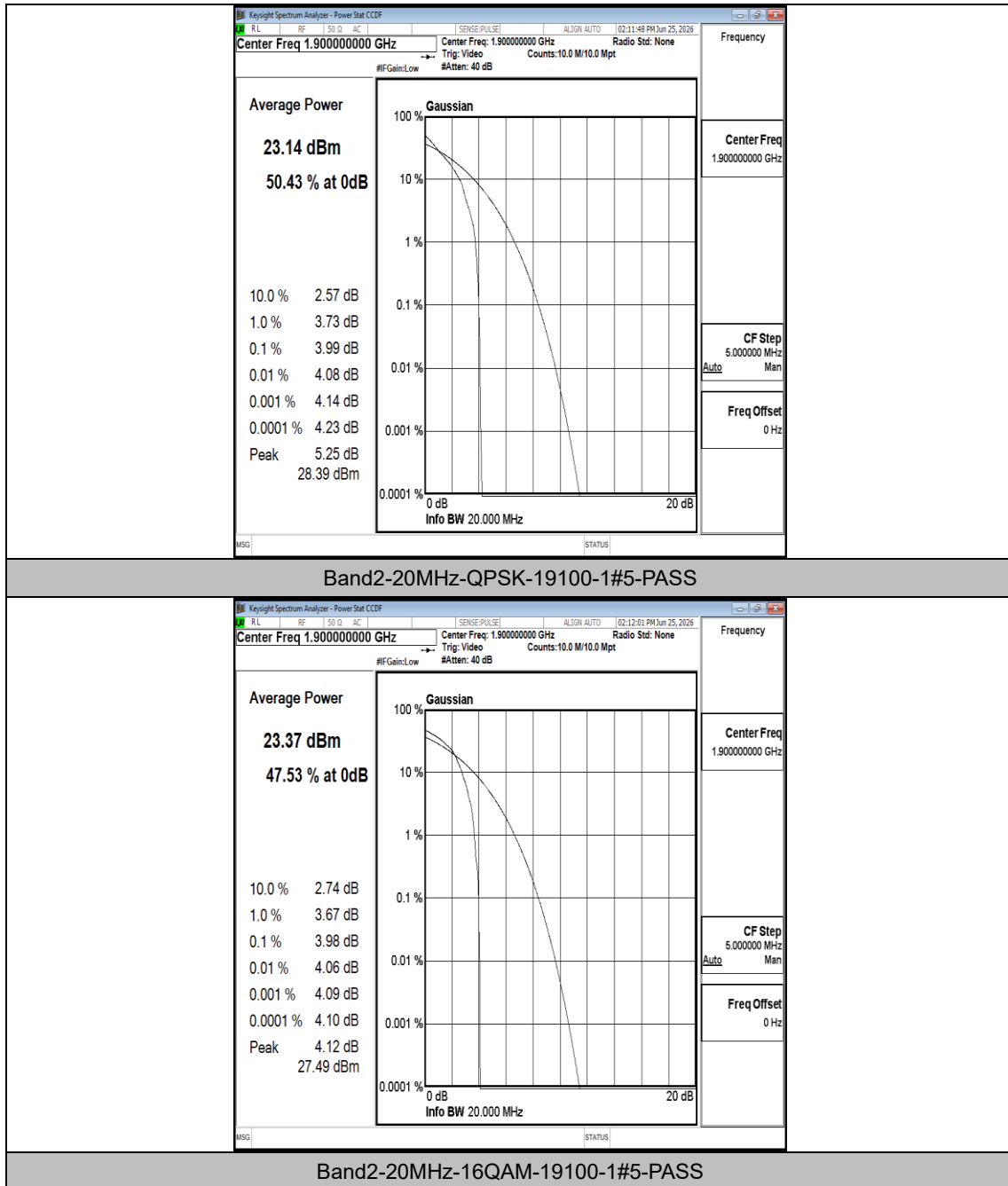


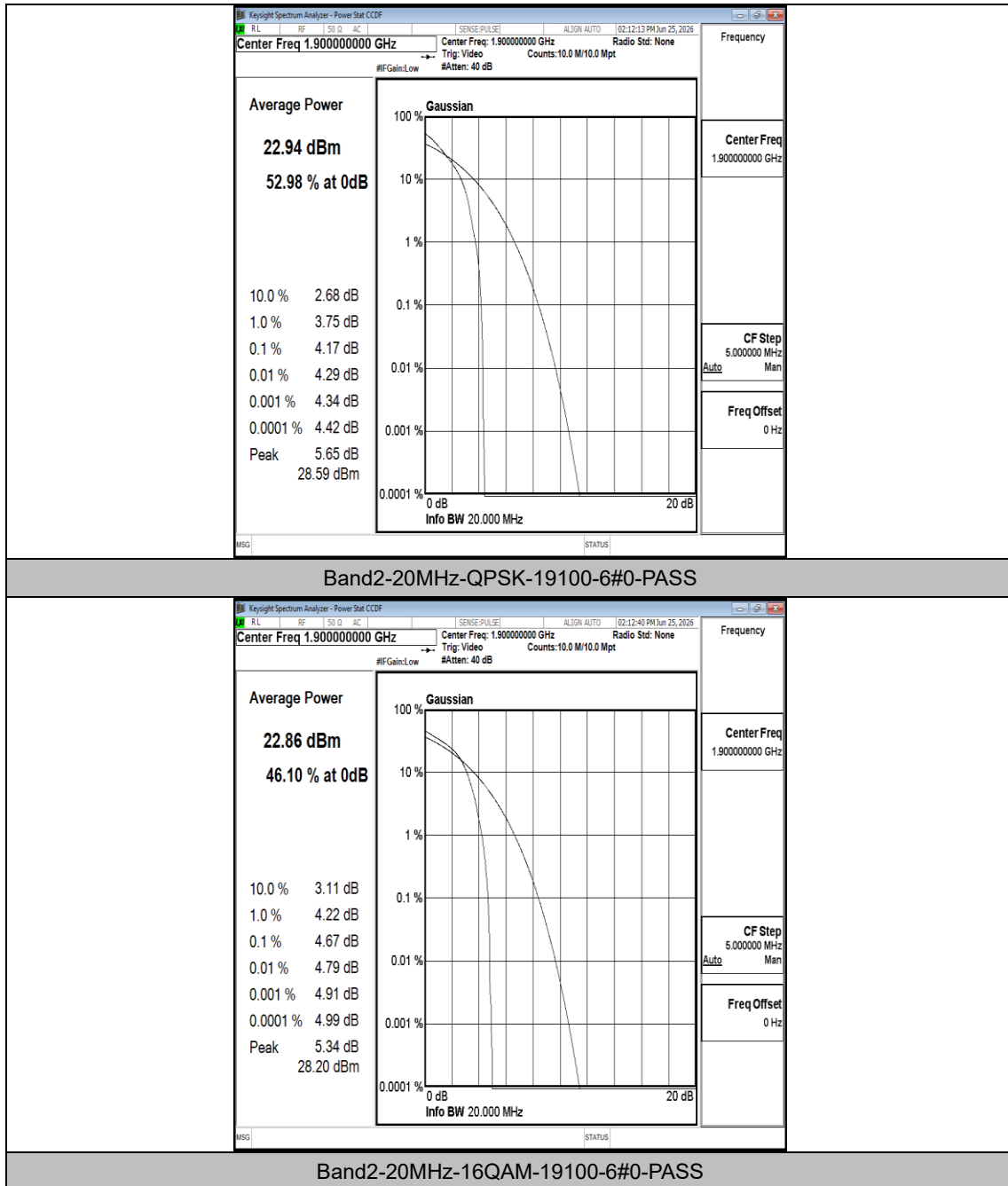












A.3 26dB Bandwidth and Occupied Bandwidth for M1

Test Result

Band	Bandwidth	Modulation	Channel	RB Size	RB Start	NB Index	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band2	1.4MHz	QPSK	18607	6	0	Low	1.0899	1.297	PASS
Band2	1.4MHz	16QAM	18607	6	0	Low	1.0870	1.292	PASS
Band2	1.4MHz	QPSK	18900	6	0	Low	1.0931	1.303	PASS
Band2	1.4MHz	16QAM	18900	6	0	Low	1.0909	1.289	PASS
Band2	1.4MHz	QPSK	19193	6	0	High	1.0918	1.304	PASS
Band2	1.4MHz	16QAM	19193	6	0	High	1.0872	1.294	PASS
Band2	3MHz	QPSK	18615	6	0	Low	1.1096	1.345	PASS
Band2	3MHz	16QAM	18615	6	0	Low	1.1138	1.346	PASS
Band2	3MHz	QPSK	18900	6	0	Low	1.1171	1.339	PASS
Band2	3MHz	16QAM	18900	6	0	Low	1.1145	1.343	PASS
Band2	3MHz	QPSK	19185	6	0	High	1.1177	1.336	PASS
Band2	3MHz	16QAM	19185	6	0	High	1.1163	1.418	PASS
Band2	5MHz	QPSK	18625	6	0	Low	1.1978	1.450	PASS
Band2	5MHz	16QAM	18625	6	0	Low	1.1778	1.617	PASS
Band2	5MHz	QPSK	18900	6	0	Low	1.1907	1.437	PASS
Band2	5MHz	16QAM	18900	6	0	Low	1.1756	1.548	PASS
Band2	5MHz	QPSK	19175	6	0	High	1.1969	1.435	PASS
Band2	5MHz	16QAM	19175	6	0	High	1.1805	1.497	PASS
Band2	10MHz	QPSK	18650	6	0	Low	1.3618	1.891	PASS
Band2	10MHz	16QAM	18650	6	0	Low	1.3304	2.106	PASS
Band2	10MHz	QPSK	18900	6	0	Low	1.3479	1.892	PASS
Band2	10MHz	16QAM	18900	6	0	Low	1.3305	2.053	PASS
Band2	10MHz	QPSK	19150	6	0	High	1.3350	1.774	PASS
Band2	10MHz	16QAM	19150	6	0	High	1.3255	1.962	PASS
Band2	15MHz	QPSK	18675	6	0	Low	1.5456	2.554	PASS
Band2	15MHz	16QAM	18675	6	0	Low	1.5949	2.575	PASS
Band2	15MHz	QPSK	18900	6	0	Low	1.5406	2.433	PASS
Band2	15MHz	16QAM	18900	6	0	Low	1.5703	2.619	PASS
Band2	15MHz	QPSK	19125	6	0	High	1.5325	2.500	PASS
Band2	15MHz	16QAM	19125	6	0	High	1.5881	2.560	PASS
Band2	20MHz	QPSK	18700	6	0	Low	1.9406	2.860	PASS
Band2	20MHz	16QAM	18700	6	0	Low	1.9886	2.960	PASS
Band2	20MHz	QPSK	18900	6	0	Low	1.9313	2.866	PASS
Band2	20MHz	16QAM	18900	6	0	Low	1.9753	2.937	PASS

Band2	20MHz	QPSK	19100	6	0	High	1.9323	2.862	PASS
Band2	20MHz	16QAM	19100	6	0	High	2.0059	2.977	PASS

Test Graphs

