

Appendix D: Test Data for CatM1 Band 5

Product Name: GPS 4G Tracker Scout BLE (CATM)

Test Model: GPS 4G Tracker Scout BLE (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

D.1 Conducted Output Power Data

Test Result

Band	Bandwidth	Modulation	Channel	RB Size	RB Start	NBIndex	Conducted Power(dBm)	Verdict
Band5	1.4MHz	QPSK	20525	1	0	Low	22.21	PASS
Band5	1.4MHz	QPSK	20407	1	0	Low	22.91	PASS
Band5	1.4MHz	16QAM	20407	1	0	Low	21.67	PASS
Band5	1.4MHz	QPSK	20407	1	5	Low	22.85	PASS
Band5	1.4MHz	16QAM	20407	1	5	Low	21.59	PASS
Band5	1.4MHz	QPSK	20407	6	0	Low	20.69	PASS
Band5	1.4MHz	16QAM	20407	6	0	Low	20.36	PASS
Band5	1.4MHz	16QAM	20525	1	0	Low	21.28	PASS
Band5	1.4MHz	QPSK	20525	1	5	Low	22.13	PASS
Band5	1.4MHz	16QAM	20525	1	5	Low	21.11	PASS
Band5	1.4MHz	QPSK	20525	6	0	Low	20.02	PASS
Band5	1.4MHz	16QAM	20525	6	0	Low	19.86	PASS
Band5	1.4MHz	QPSK	20643	1	0	High	22.13	PASS
Band5	1.4MHz	16QAM	20643	1	0	High	21.20	PASS
Band5	1.4MHz	QPSK	20643	1	5	High	22.09	PASS
Band5	1.4MHz	16QAM	20643	1	5	High	21.13	PASS
Band5	1.4MHz	QPSK	20643	6	0	High	19.93	PASS
Band5	1.4MHz	16QAM	20643	6	0	High	19.67	PASS
Band5	3MHz	QPSK	20415	1	0	Low	22.64	PASS
Band5	3MHz	16QAM	20415	1	0	Low	21.50	PASS
Band5	3MHz	QPSK	20415	1	5	Low	22.54	PASS
Band5	3MHz	16QAM	20415	1	5	Low	21.51	PASS
Band5	3MHz	QPSK	20415	6	0	Low	20.46	PASS
Band5	3MHz	16QAM	20415	6	0	Low	20.53	PASS
Band5	3MHz	QPSK	20525	1	0	Low	22.26	PASS
Band5	3MHz	16QAM	20525	1	0	Low	21.18	PASS
Band5	3MHz	QPSK	20525	1	5	Low	22.15	PASS
Band5	3MHz	16QAM	20525	1	5	Low	21.12	PASS
Band5	3MHz	QPSK	20525	6	0	Low	20.03	PASS
Band5	3MHz	16QAM	20525	6	0	Low	20.19	PASS
Band5	3MHz	QPSK	20635	1	0	High	22.11	PASS
Band5	3MHz	16QAM	20635	1	0	High	21.04	PASS
Band5	3MHz	QPSK	20635	1	5	High	22.09	PASS
Band5	3MHz	16QAM	20635	1	5	High	21.02	PASS
Band5	3MHz	QPSK	20635	6	0	High	19.94	PASS

Band5	3MHz	16QAM	20635	6	0	High	20.04	PASS
Band5	5MHz	QPSK	20425	1	0	Low	22.56	PASS
Band5	5MHz	16QAM	20425	1	0	Low	22.82	PASS
Band5	5MHz	QPSK	20425	1	5	Low	22.58	PASS
Band5	5MHz	16QAM	20425	1	5	Low	22.77	PASS
Band5	5MHz	QPSK	20425	6	0	Low	21.46	PASS
Band5	5MHz	16QAM	20425	6	0	Low	20.50	PASS
Band5	5MHz	QPSK	20525	1	0	Low	22.25	PASS
Band5	5MHz	16QAM	20525	1	0	Low	22.52	PASS
Band5	5MHz	QPSK	20525	1	5	Low	22.24	PASS
Band5	5MHz	16QAM	20525	1	5	Low	22.47	PASS
Band5	5MHz	QPSK	20525	6	0	Low	21.13	PASS
Band5	5MHz	16QAM	20525	6	0	Low	20.22	PASS
Band5	5MHz	QPSK	20625	1	0	High	22.00	PASS
Band5	5MHz	16QAM	20625	1	0	High	22.33	PASS
Band5	5MHz	QPSK	20625	1	5	High	22.04	PASS
Band5	5MHz	16QAM	20625	1	5	High	22.32	PASS
Band5	5MHz	QPSK	20625	6	0	High	20.92	PASS
Band5	5MHz	16QAM	20625	6	0	High	20.02	PASS
Band5	10MHz	QPSK	20450	1	0	Low	22.55	PASS
Band5	10MHz	16QAM	20450	1	0	Low	22.81	PASS
Band5	10MHz	QPSK	20450	1	5	Low	22.58	PASS
Band5	10MHz	16QAM	20450	1	5	Low	22.79	PASS
Band5	10MHz	QPSK	20450	6	0	Low	21.44	PASS
Band5	10MHz	16QAM	20450	6	0	Low	20.58	PASS
Band5	10MHz	QPSK	20525	1	0	Low	22.32	PASS
Band5	10MHz	16QAM	20525	1	0	Low	22.62	PASS
Band5	10MHz	QPSK	20525	1	5	Low	22.31	PASS
Band5	10MHz	16QAM	20525	1	5	Low	22.56	PASS
Band5	10MHz	QPSK	20525	6	0	Low	21.20	PASS
Band5	10MHz	16QAM	20525	6	0	Low	20.31	PASS
Band5	10MHz	QPSK	20600	1	0	High	22.05	PASS
Band5	10MHz	16QAM	20600	1	0	High	22.35	PASS
Band5	10MHz	QPSK	20600	1	5	High	22.13	PASS
Band5	10MHz	16QAM	20600	1	5	High	22.34	PASS
Band5	10MHz	QPSK	20600	6	0	High	20.94	PASS
Band5	10MHz	16QAM	20600	6	0	High	20.06	PASS

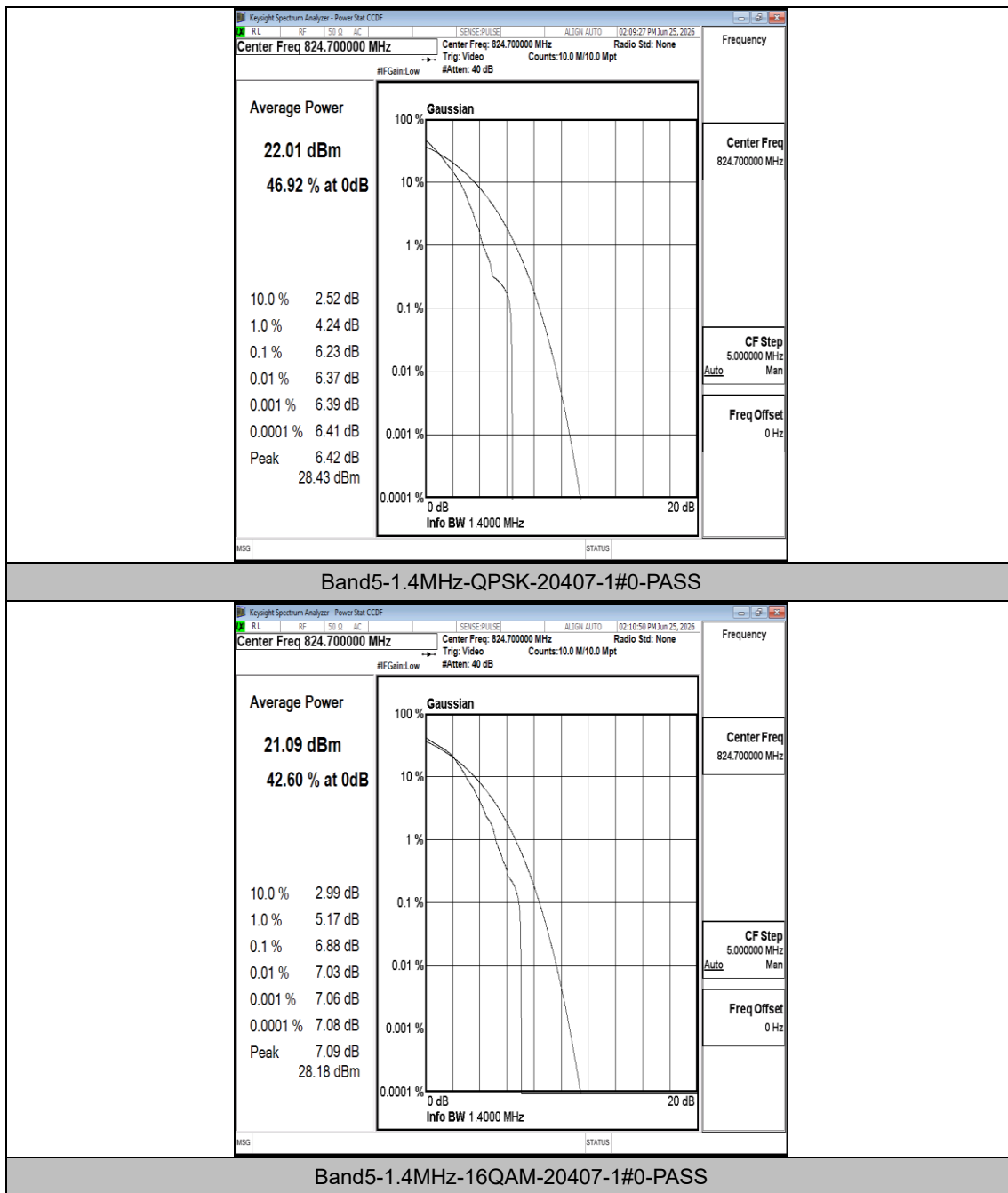
D.2 Peak-to-Average Ratio (CCDF) for M1

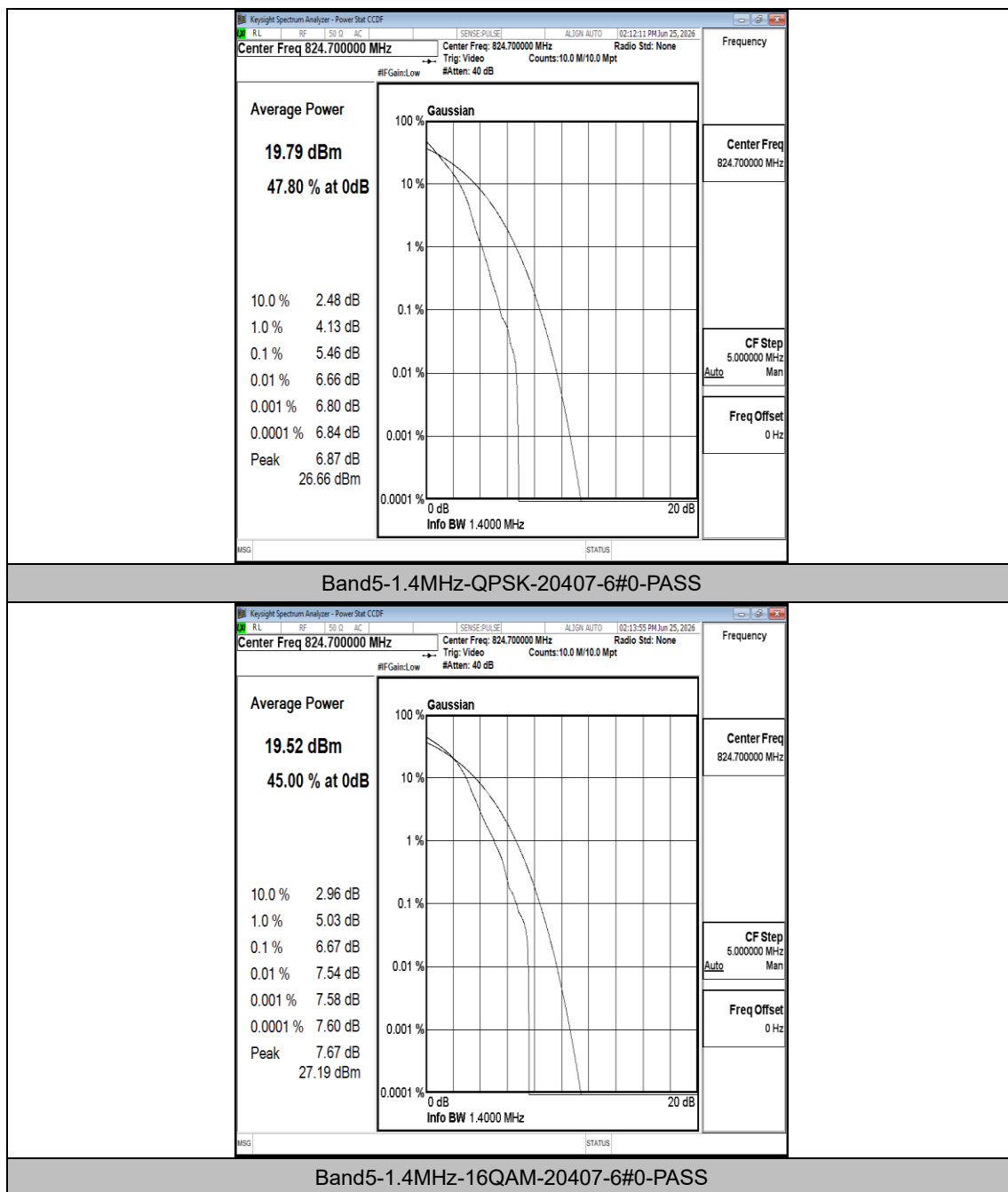
Test Result

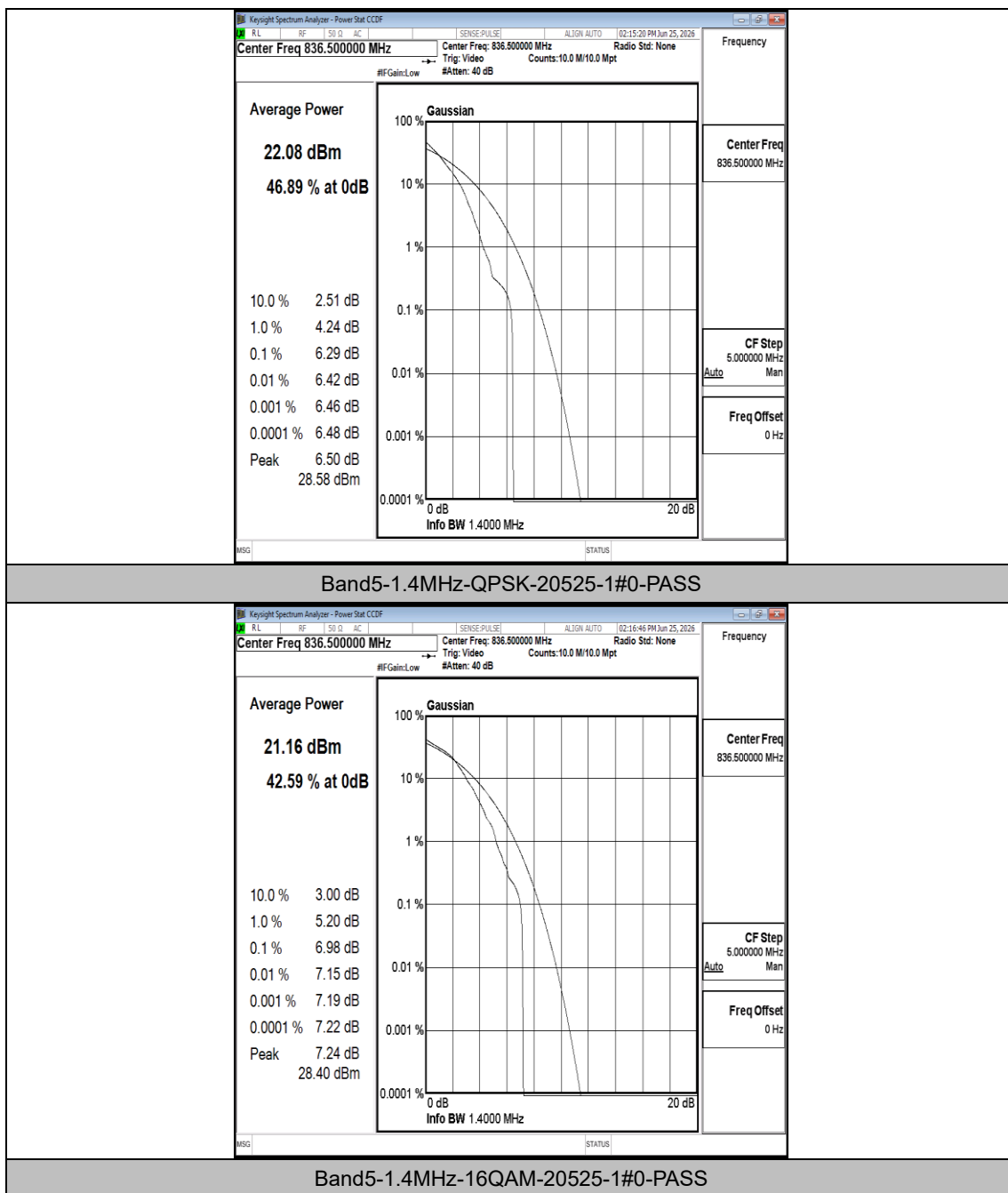
Band	Bandwidth	Modulation	Channel	RB Size	RB Start	NBIndex	Result(dB)	Limit(dB)	Verdict
Band5	1.4MHz	QPSK	20407	1	0	Low	6.23	<=13	PASS
Band5	1.4MHz	16QAM	20407	1	0	Low	6.88	<=13	PASS
Band5	1.4MHz	QPSK	20407	6	0	Low	5.46	<=13	PASS
Band5	1.4MHz	16QAM	20407	6	0	Low	6.67	<=13	PASS
Band5	1.4MHz	QPSK	20525	1	0	Low	6.29	<=13	PASS
Band5	1.4MHz	16QAM	20525	1	0	Low	6.98	<=13	PASS
Band5	1.4MHz	QPSK	20525	6	0	Low	5.55	<=13	PASS
Band5	1.4MHz	16QAM	20525	6	0	Low	6.70	<=13	PASS
Band5	1.4MHz	QPSK	20643	1	5	High	6.38	<=13	PASS
Band5	1.4MHz	16QAM	20643	1	5	High	7.15	<=13	PASS
Band5	1.4MHz	QPSK	20643	6	0	High	5.44	<=13	PASS
Band5	1.4MHz	16QAM	20643	6	0	High	6.72	<=13	PASS
Band5	3MHz	QPSK	20415	1	0	Low	6.30	<=13	PASS
Band5	3MHz	16QAM	20415	1	0	Low	6.86	<=13	PASS
Band5	3MHz	QPSK	20415	6	0	Low	5.97	<=13	PASS
Band5	3MHz	16QAM	20415	6	0	Low	6.77	<=13	PASS
Band5	3MHz	QPSK	20525	1	0	Low	6.35	<=13	PASS
Band5	3MHz	16QAM	20525	1	0	Low	6.90	<=13	PASS
Band5	3MHz	QPSK	20525	6	0	Low	5.89	<=13	PASS
Band5	3MHz	16QAM	20525	6	0	Low	6.75	<=13	PASS
Band5	3MHz	QPSK	20635	1	5	High	6.31	<=13	PASS
Band5	3MHz	16QAM	20635	1	5	High	7.10	<=13	PASS
Band5	3MHz	QPSK	20635	6	0	High	5.62	<=13	PASS
Band5	3MHz	16QAM	20635	6	0	High	6.74	<=13	PASS
Band5	5MHz	QPSK	20425	1	0	Low	5.78	<=13	PASS
Band5	5MHz	16QAM	20425	1	0	Low	5.93	<=13	PASS
Band5	5MHz	QPSK	20425	6	0	Low	5.75	<=13	PASS
Band5	5MHz	16QAM	20425	6	0	Low	6.87	<=13	PASS
Band5	5MHz	QPSK	20525	1	0	Low	5.81	<=13	PASS
Band5	5MHz	16QAM	20525	1	0	Low	5.96	<=13	PASS
Band5	5MHz	QPSK	20525	6	0	Low	5.73	<=13	PASS
Band5	5MHz	16QAM	20525	6	0	Low	6.91	<=13	PASS
Band5	5MHz	QPSK	20625	1	5	High	5.99	<=13	PASS
Band5	5MHz	16QAM	20625	1	5	High	6.39	<=13	PASS
Band5	5MHz	QPSK	20625	6	0	High	5.79	<=13	PASS

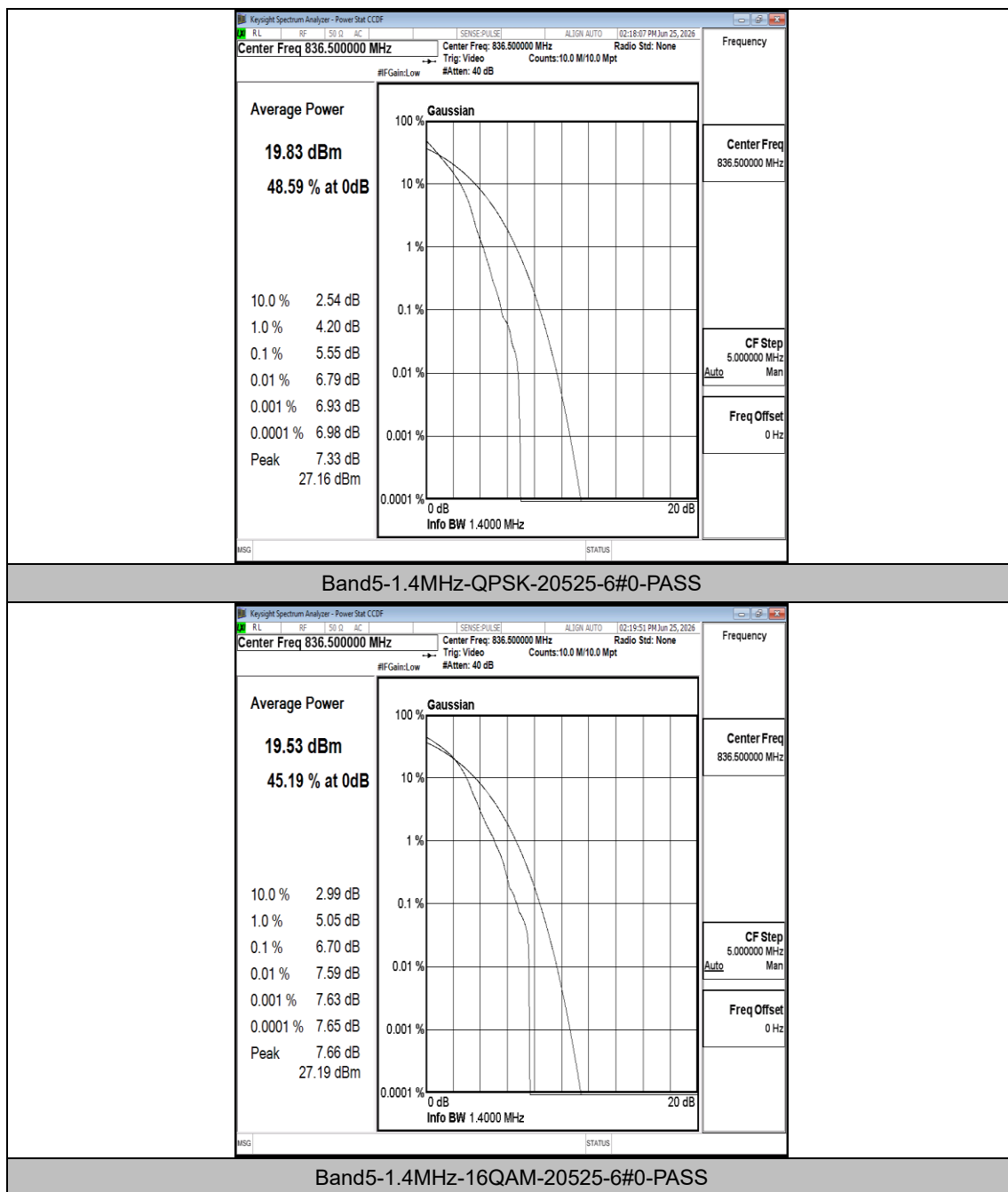
Band5	5MHz	16QAM	20625	6	0	High	6.93	<=13	PASS
Band5	10MHz	QPSK	20450	1	0	Low	5.81	<=13	PASS
Band5	10MHz	16QAM	20450	1	0	Low	5.92	<=13	PASS
Band5	10MHz	QPSK	20450	6	0	Low	6.17	<=13	PASS
Band5	10MHz	16QAM	20450	6	0	Low	6.90	<=13	PASS
Band5	10MHz	QPSK	20525	1	0	Low	5.84	<=13	PASS
Band5	10MHz	16QAM	20525	1	0	Low	5.96	<=13	PASS
Band5	10MHz	QPSK	20525	6	0	Low	6.17	<=13	PASS
Band5	10MHz	16QAM	20525	6	0	Low	6.97	<=13	PASS
Band5	10MHz	QPSK	20600	1	5	High	6.01	<=13	PASS
Band5	10MHz	16QAM	20600	1	5	High	6.27	<=13	PASS
Band5	10MHz	QPSK	20600	6	0	High	6.18	<=13	PASS
Band5	10MHz	16QAM	20600	6	0	High	7.26	<=13	PASS

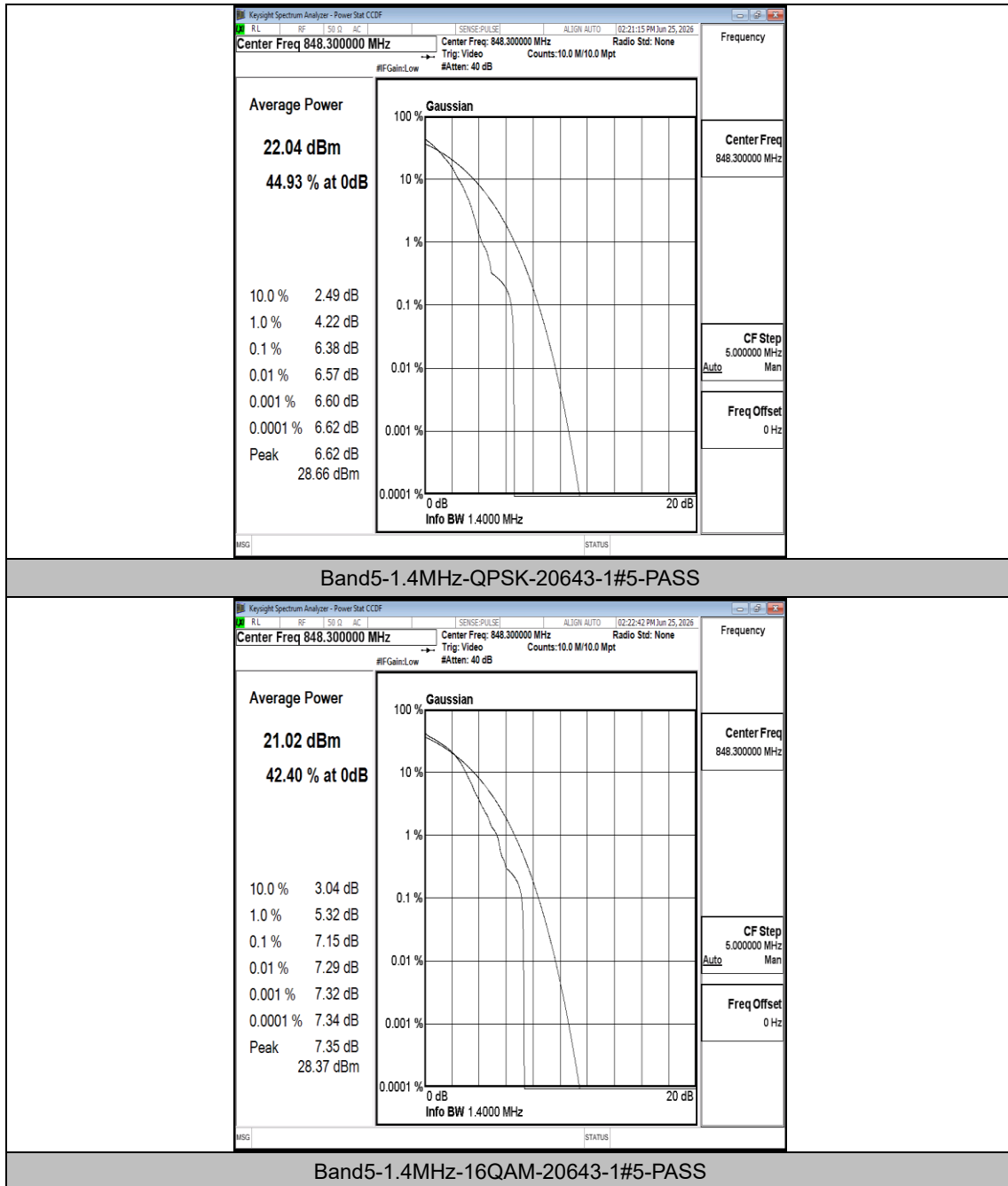
Test Graphs

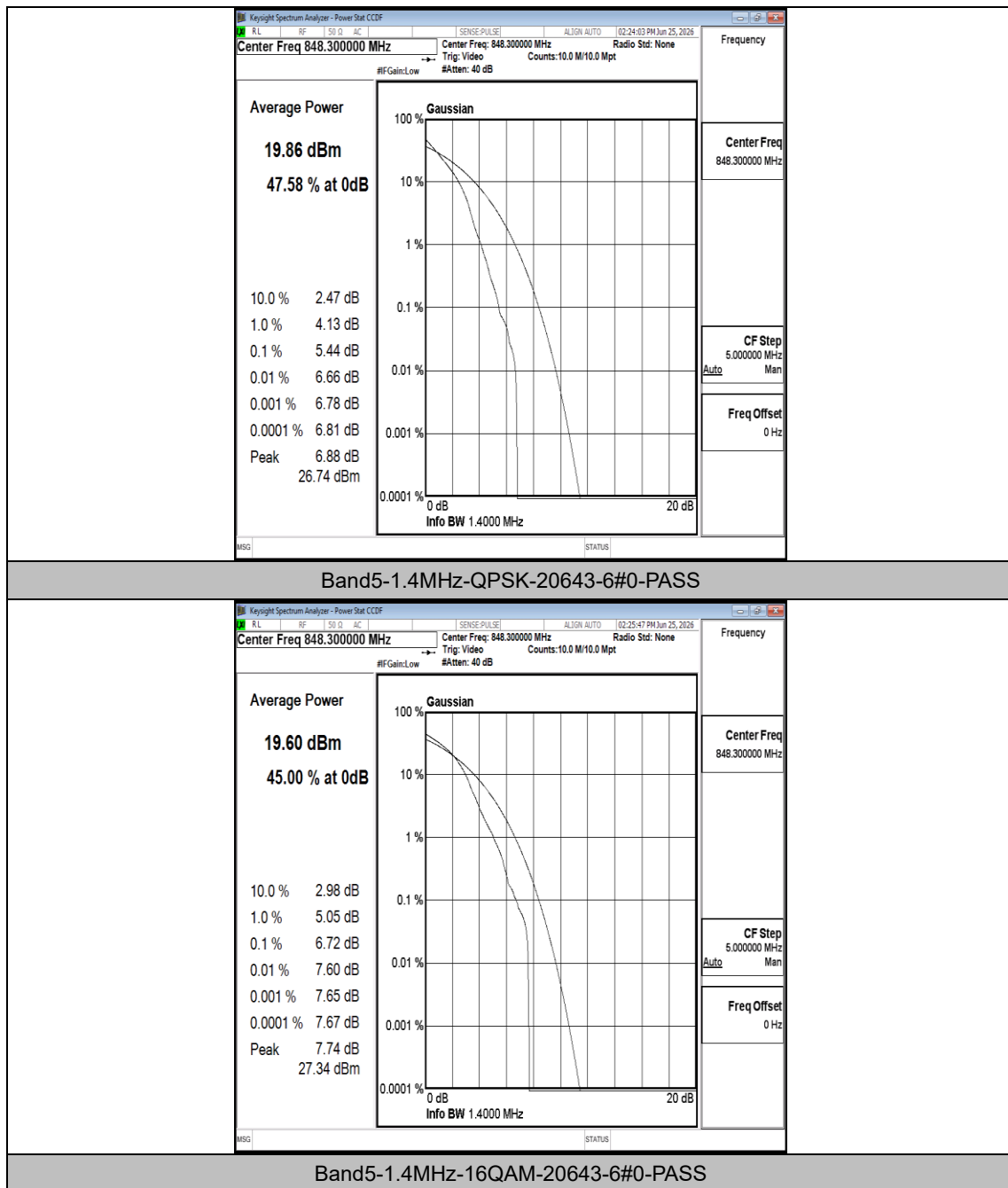


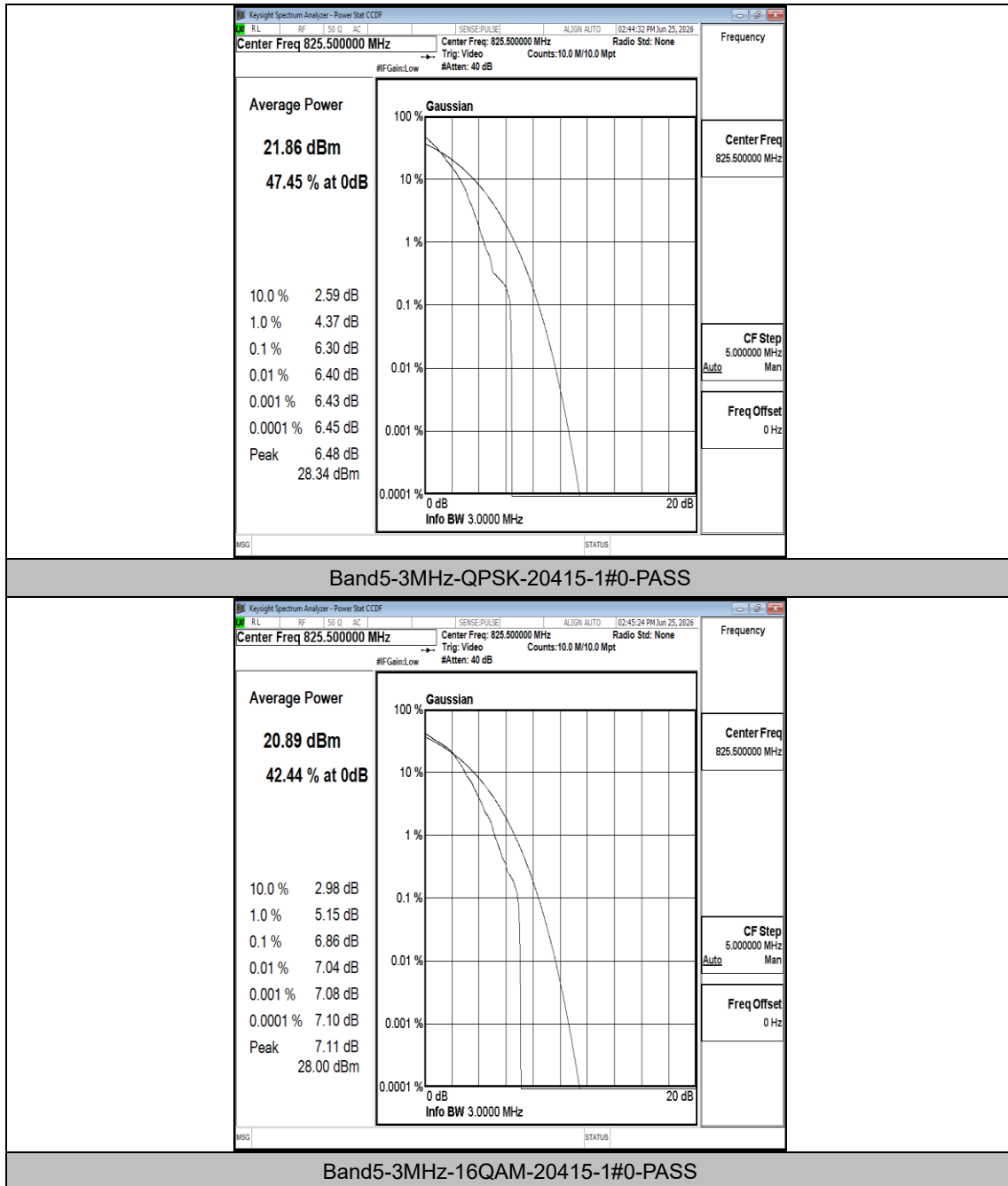


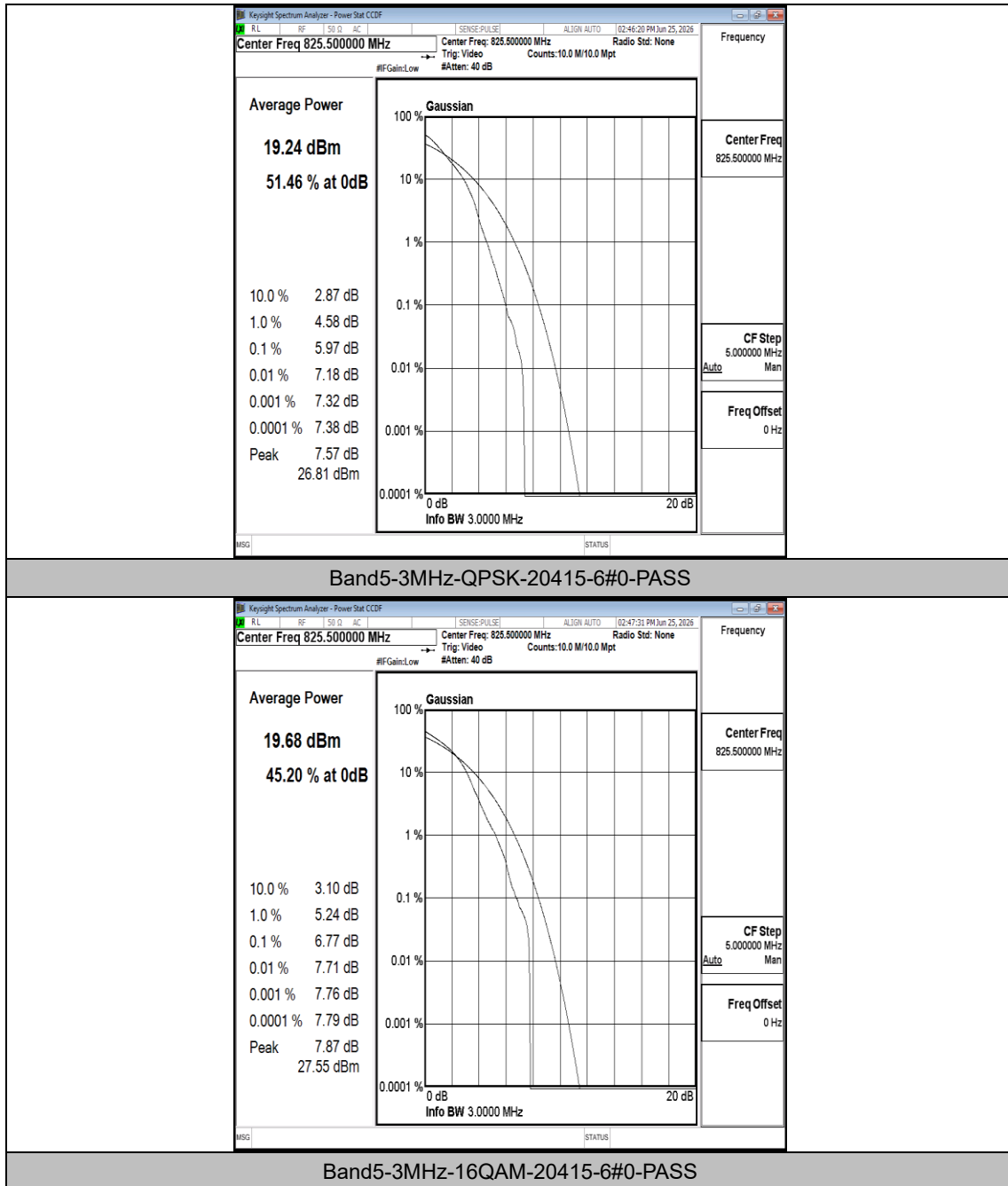


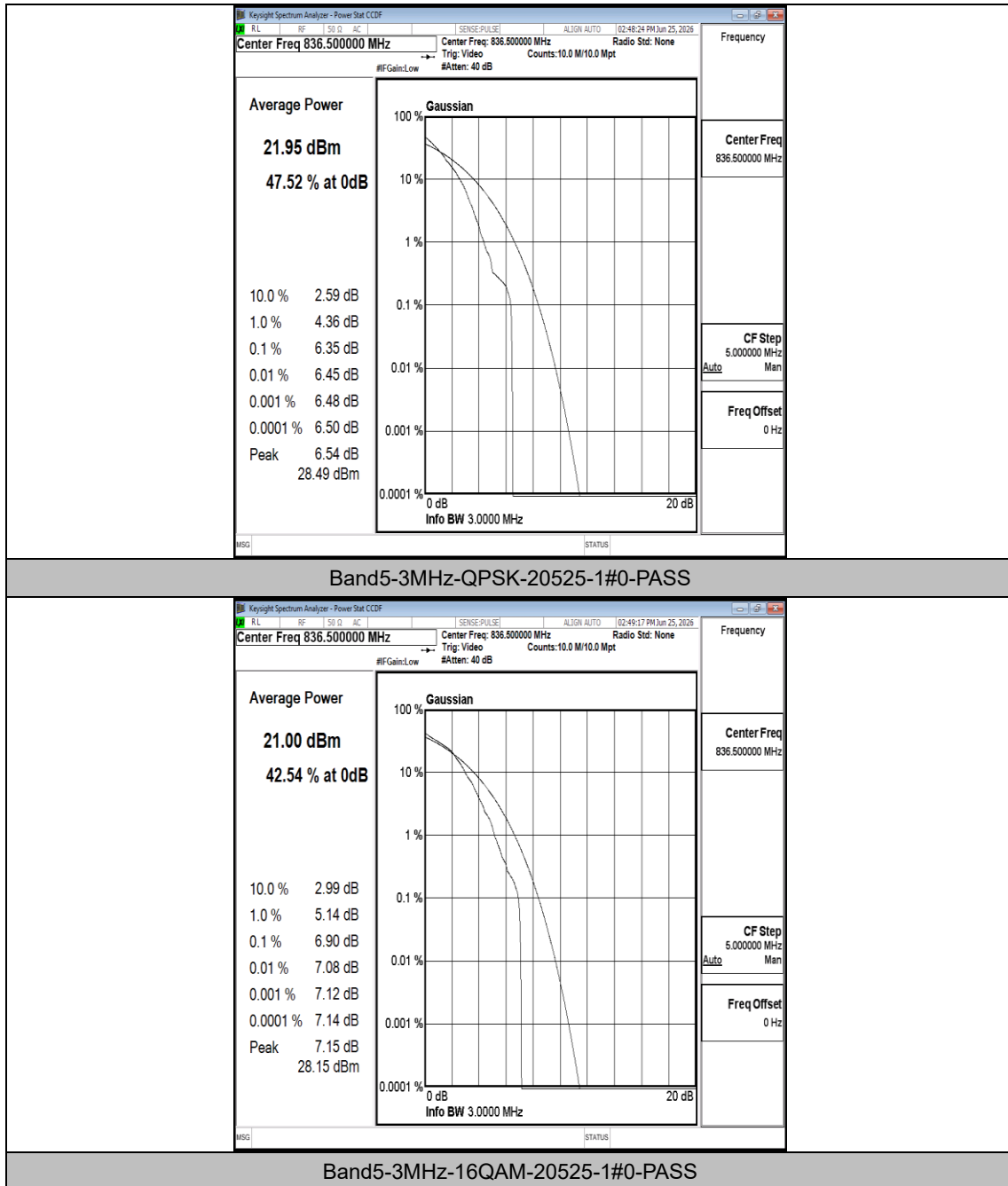


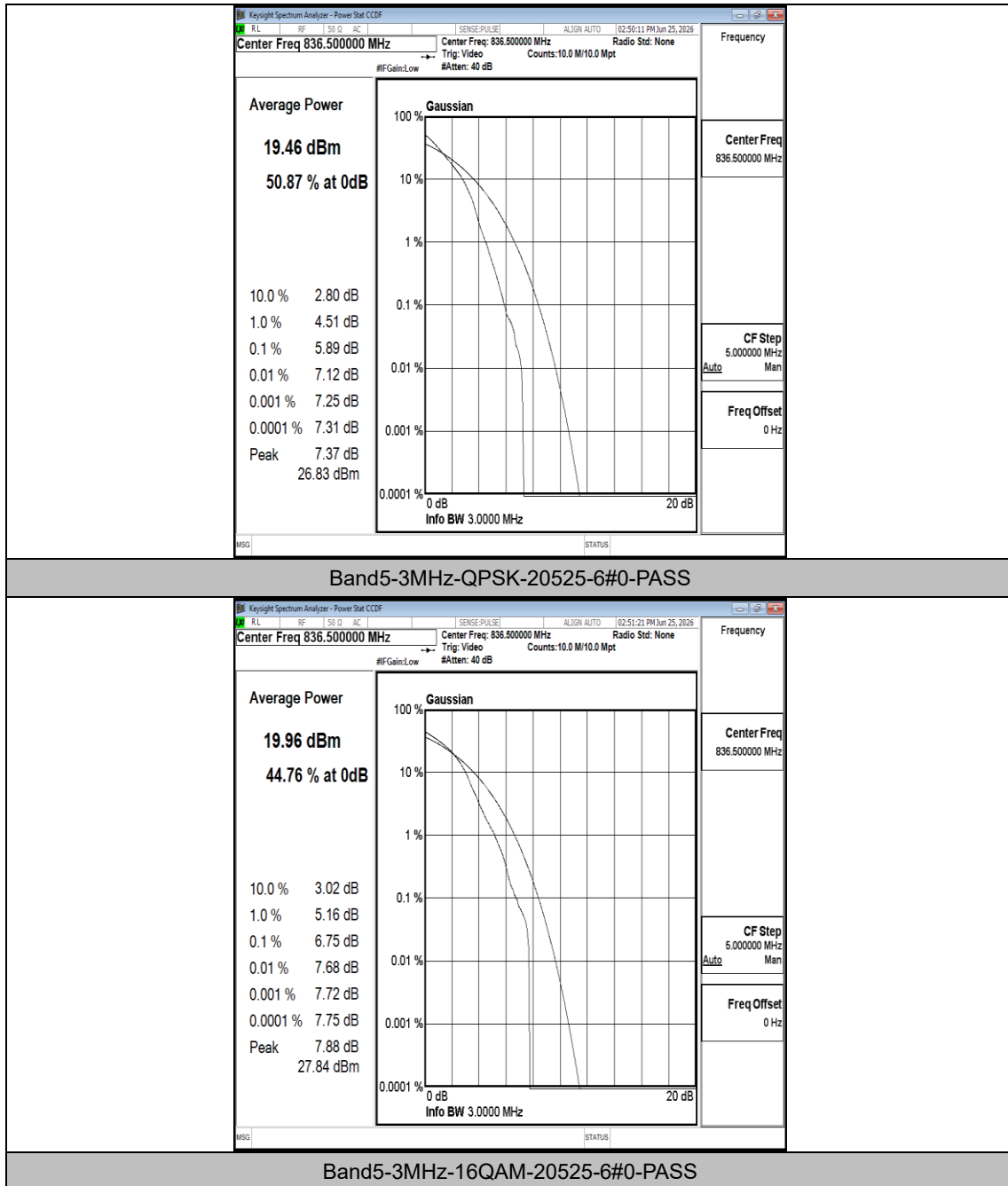


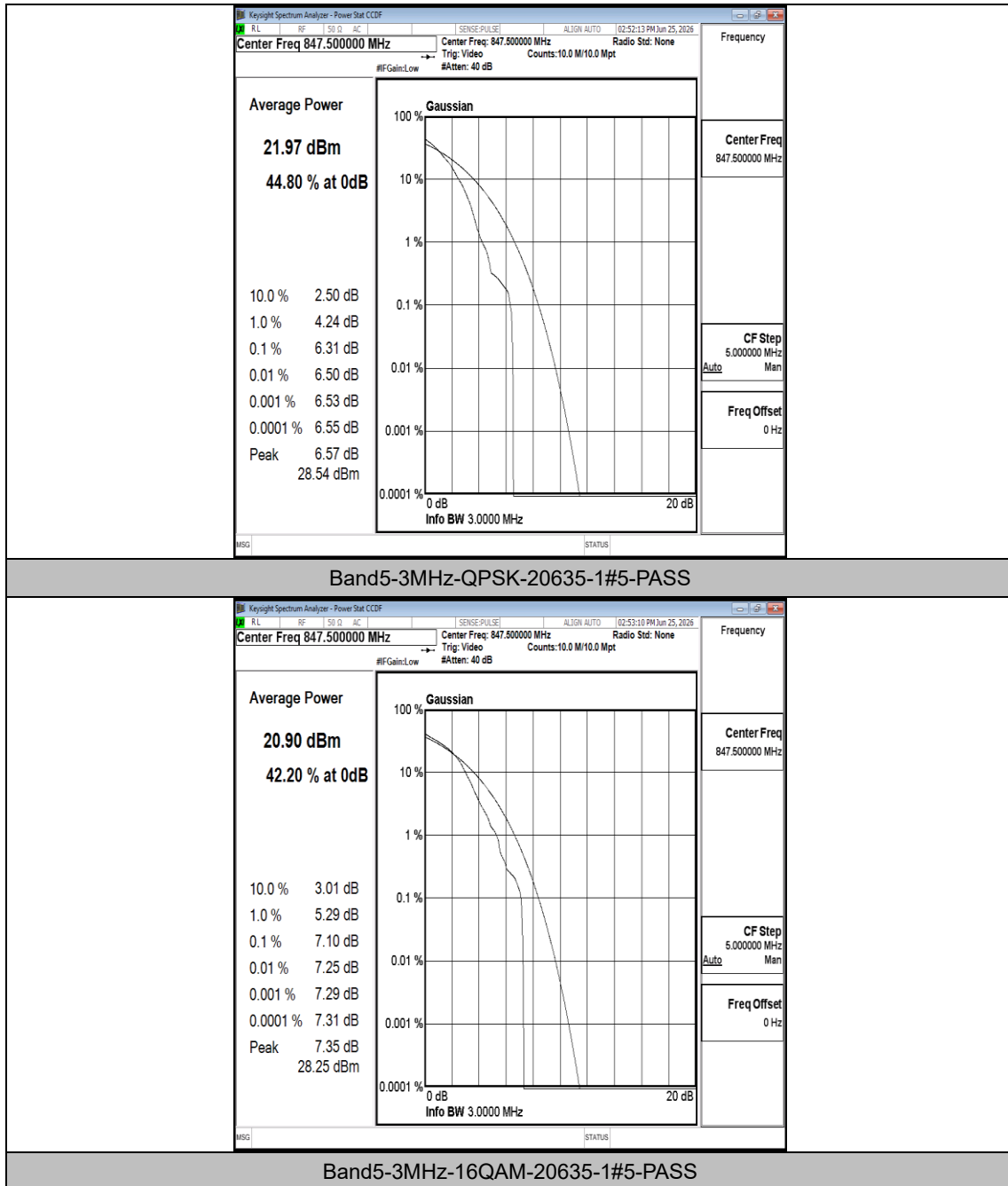


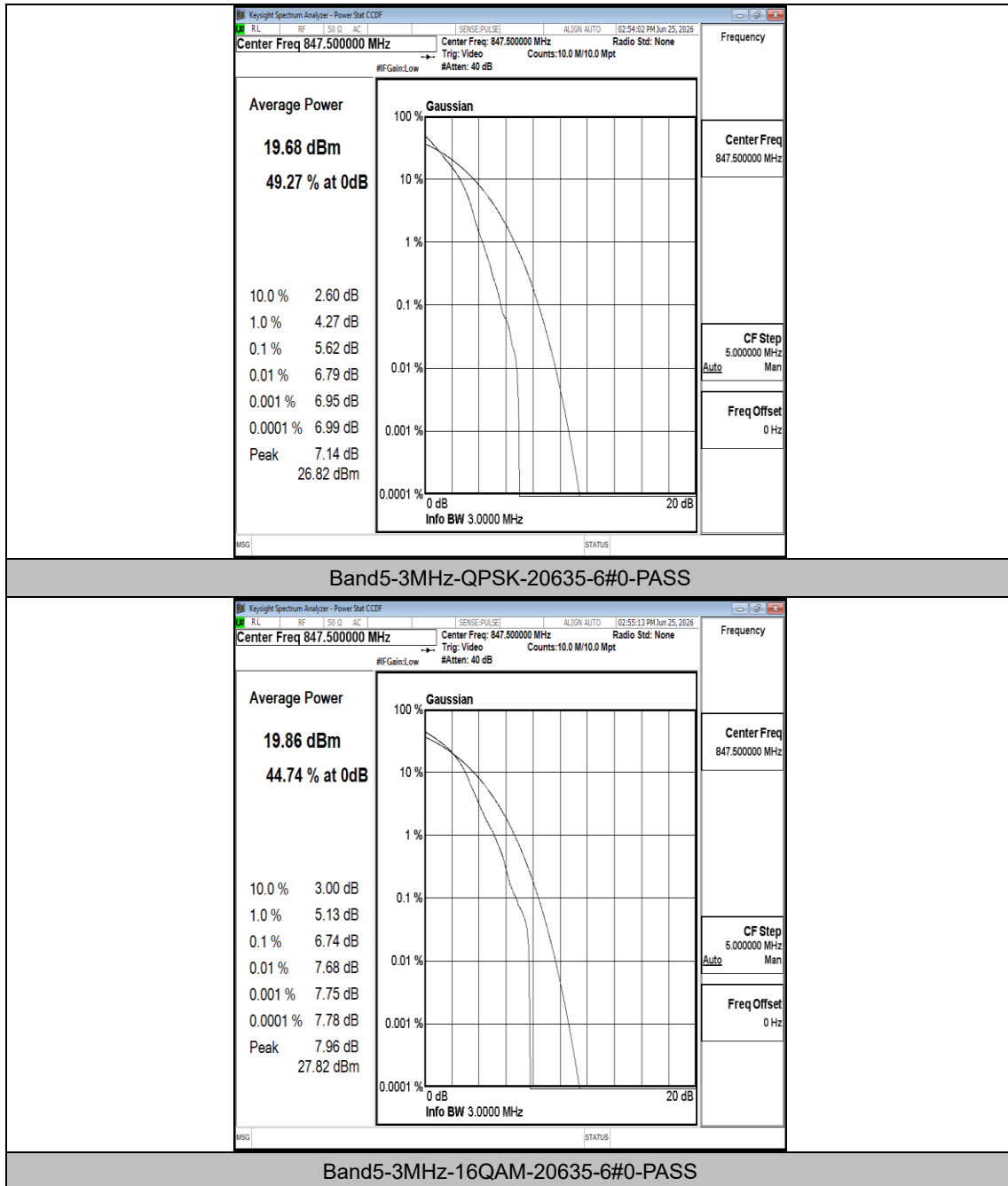


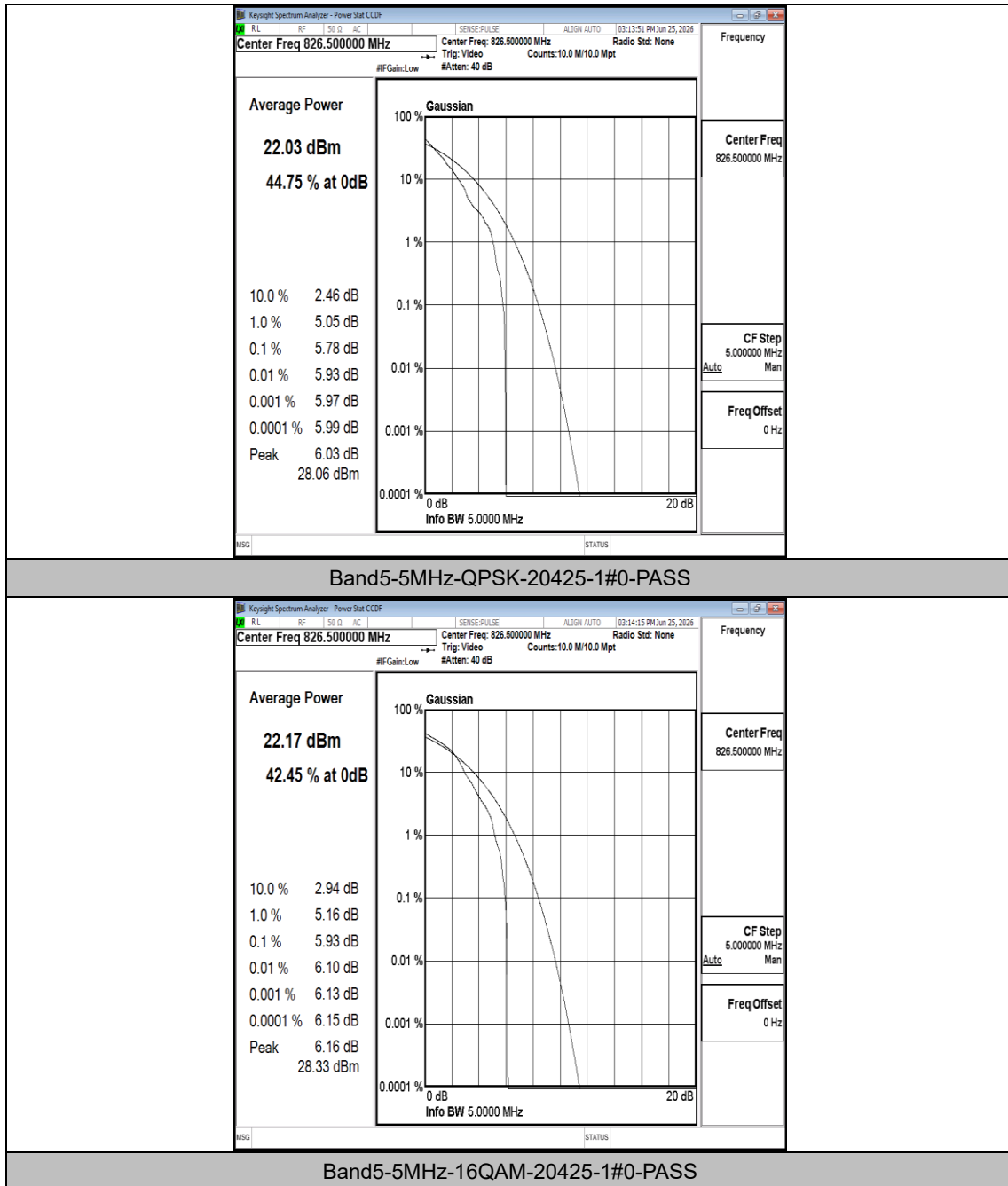


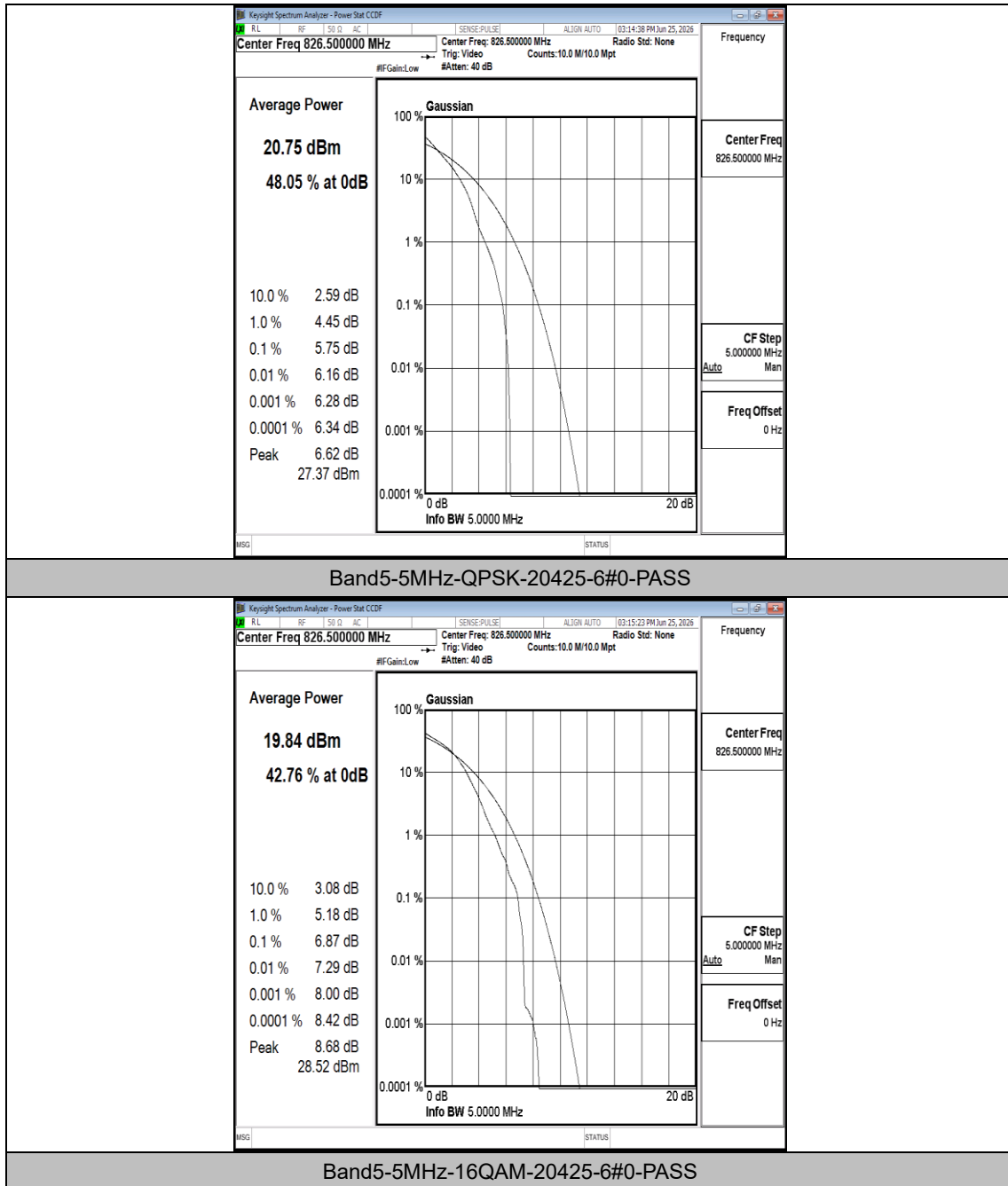


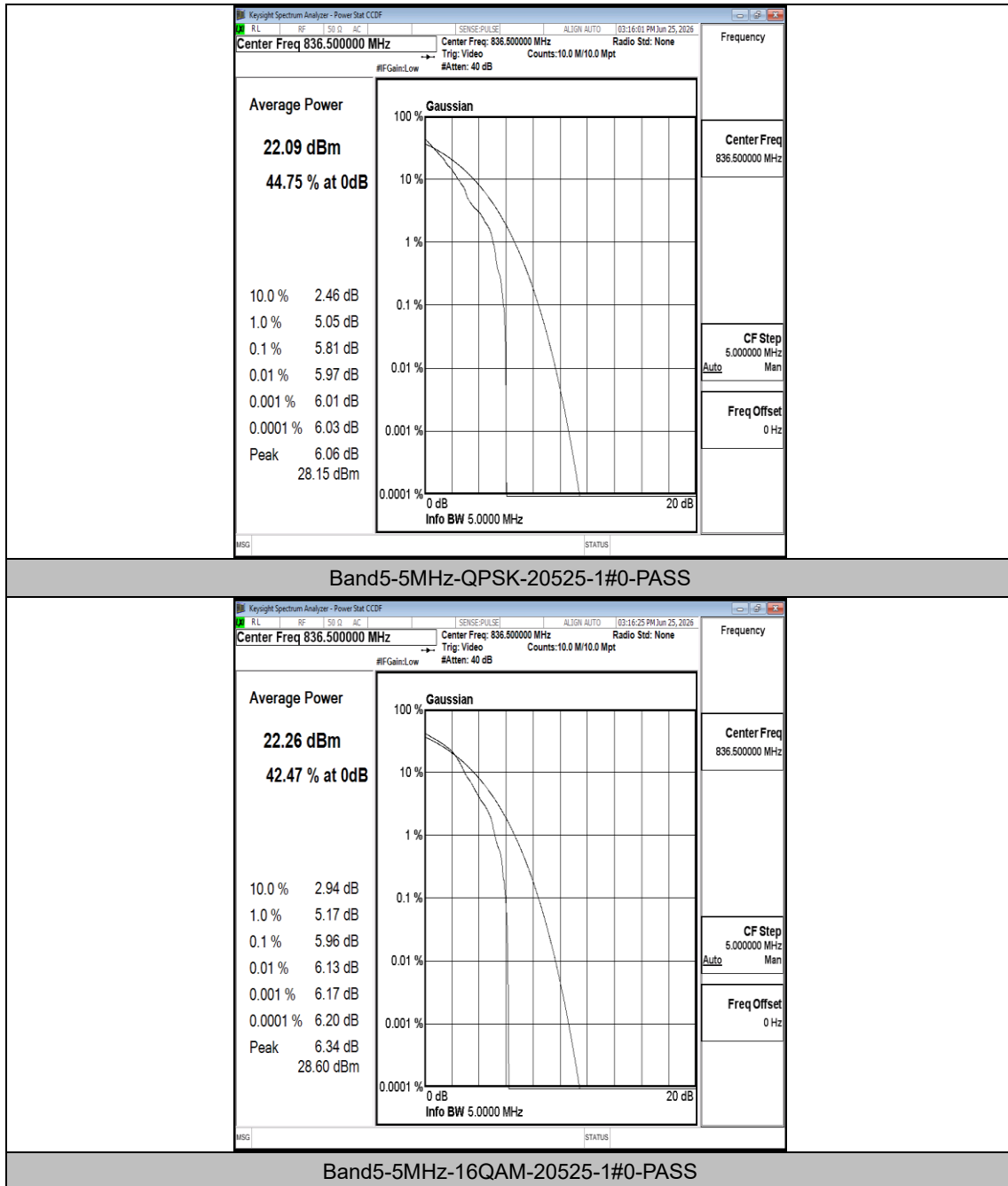


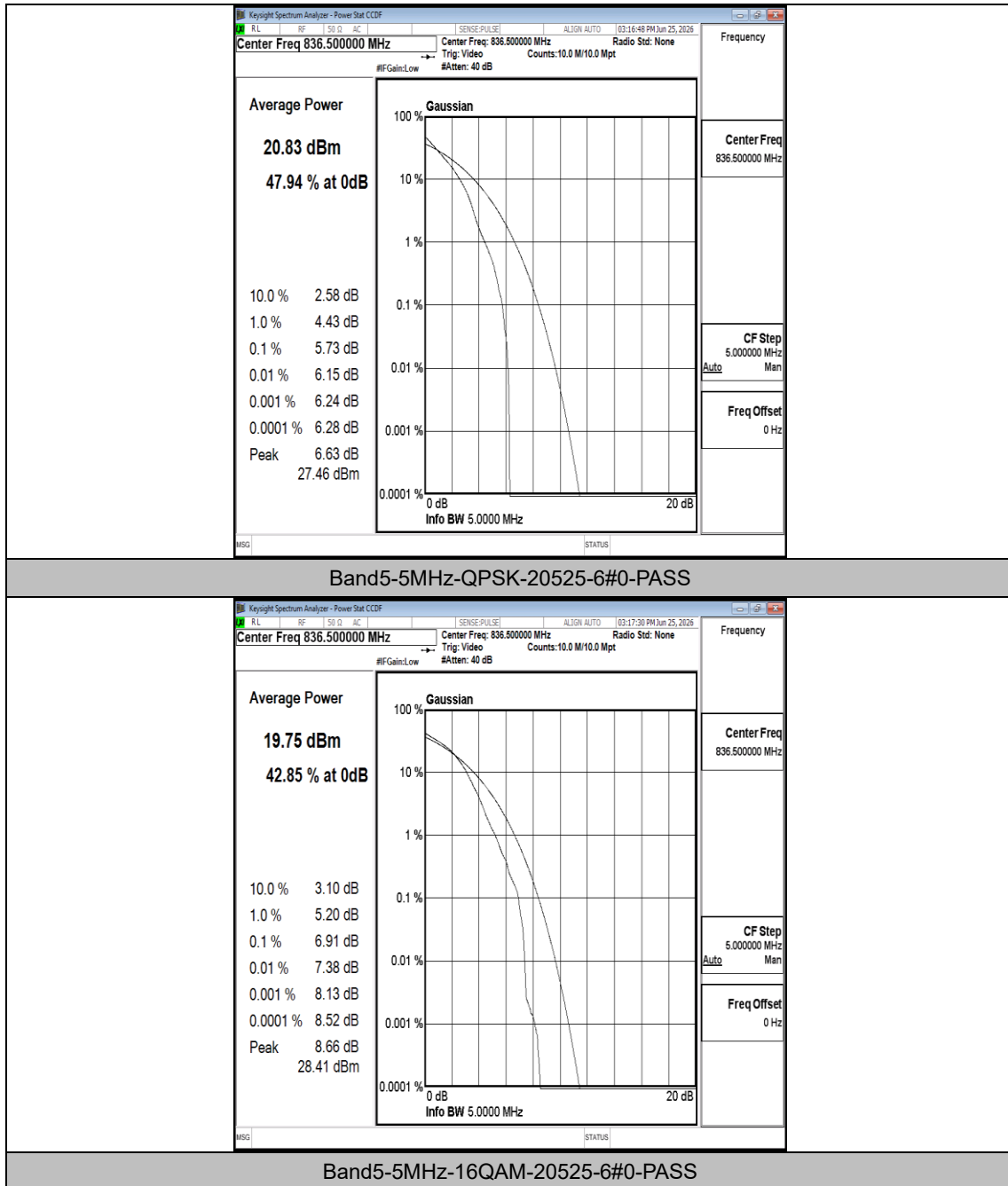


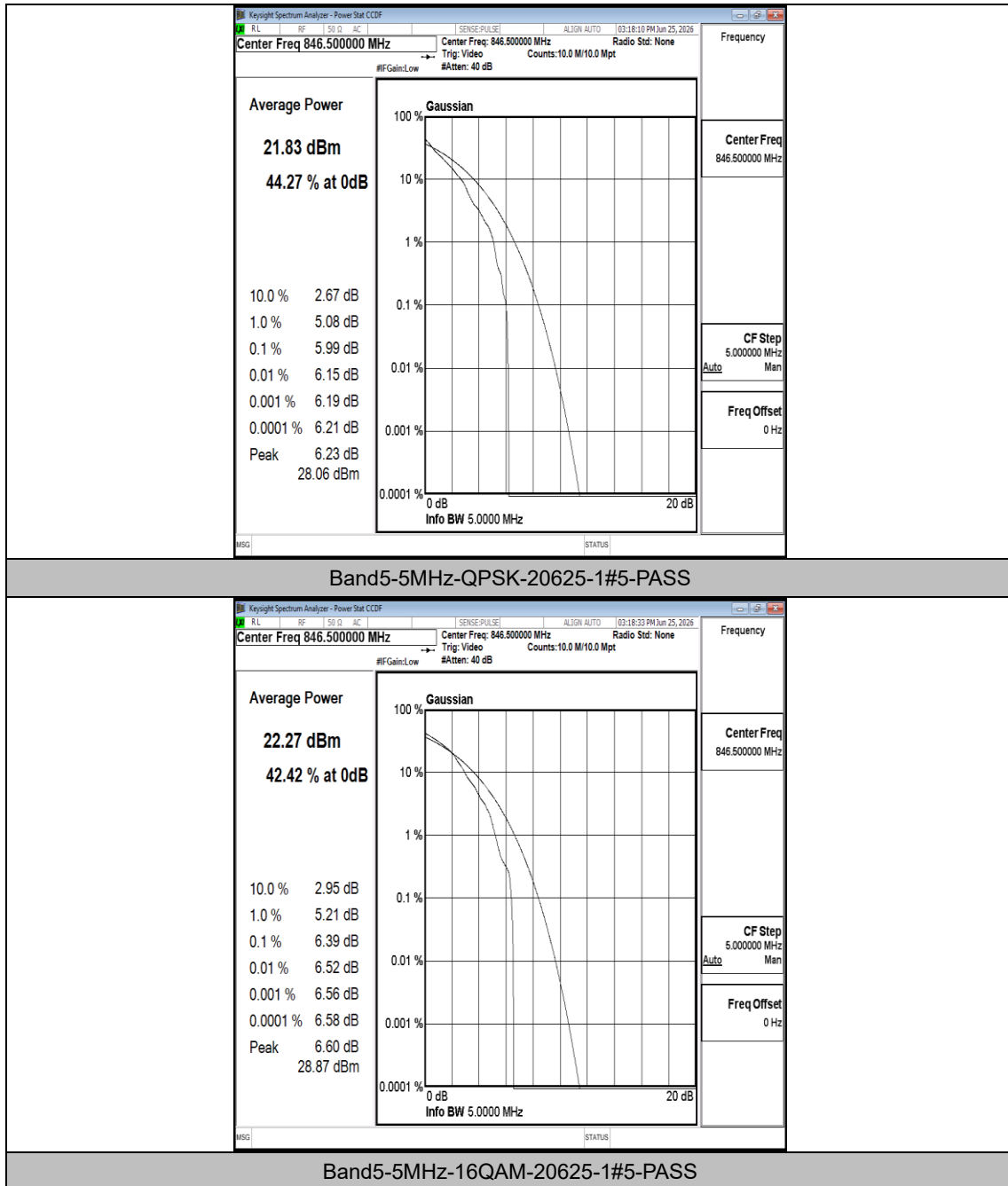


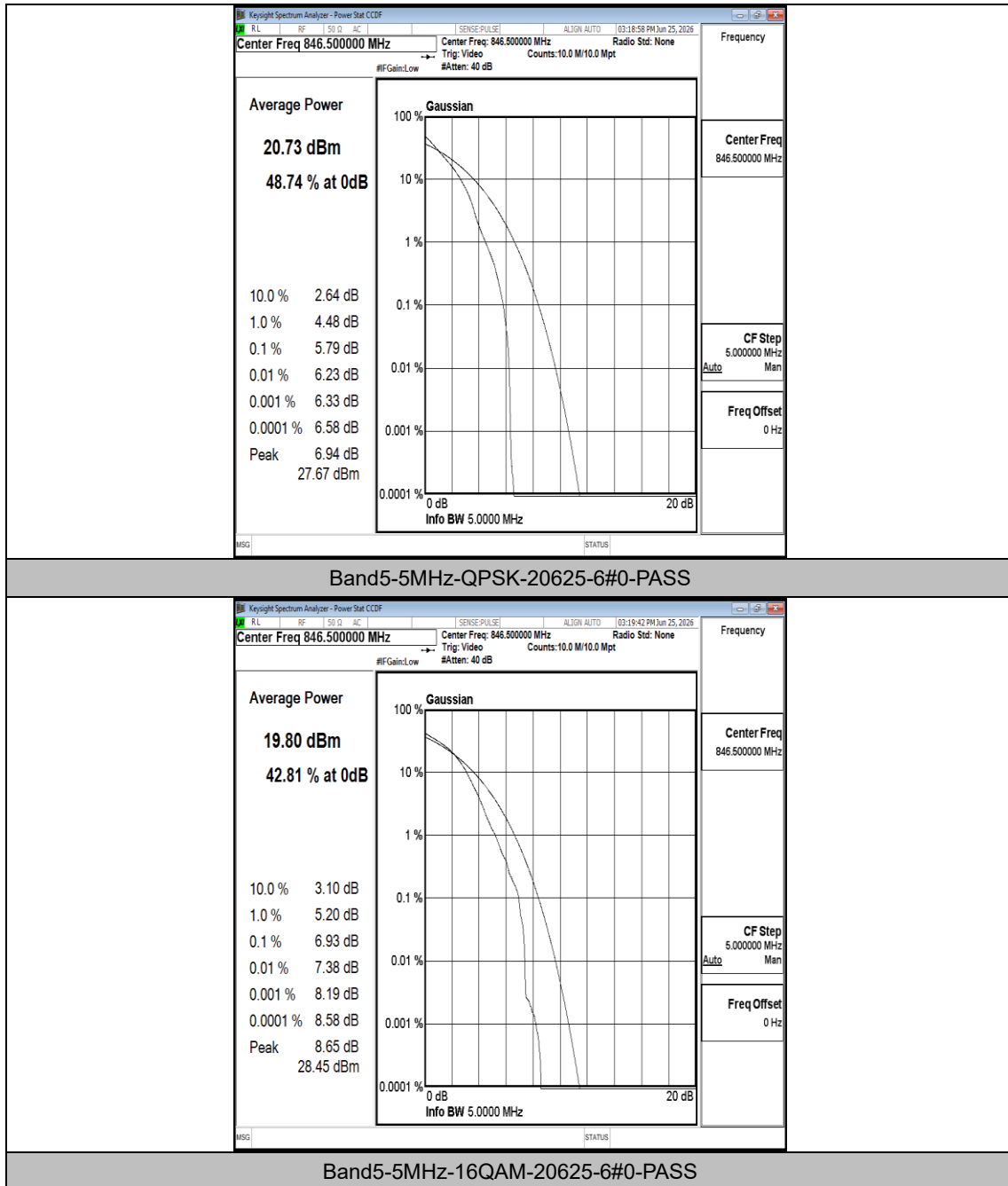


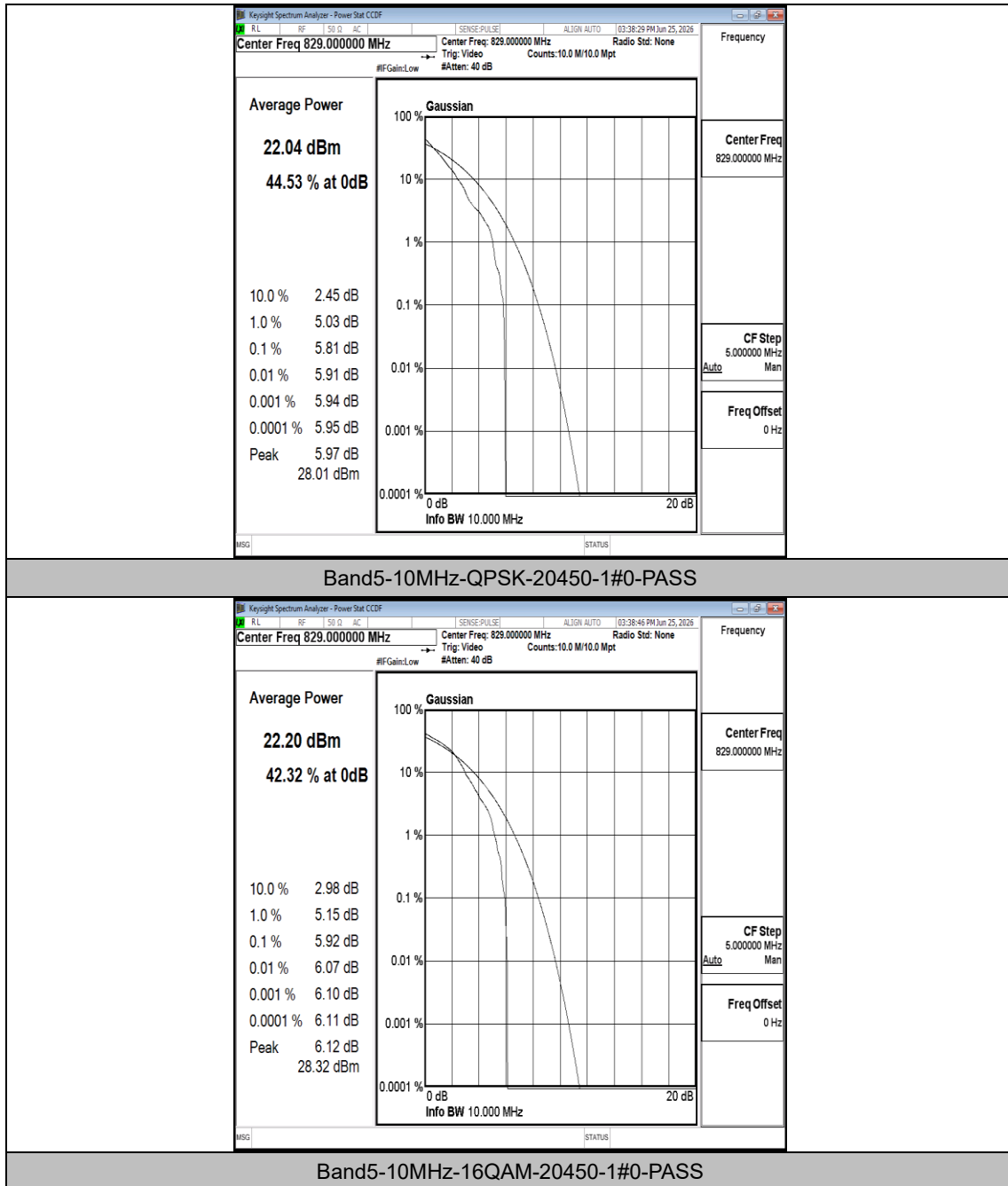


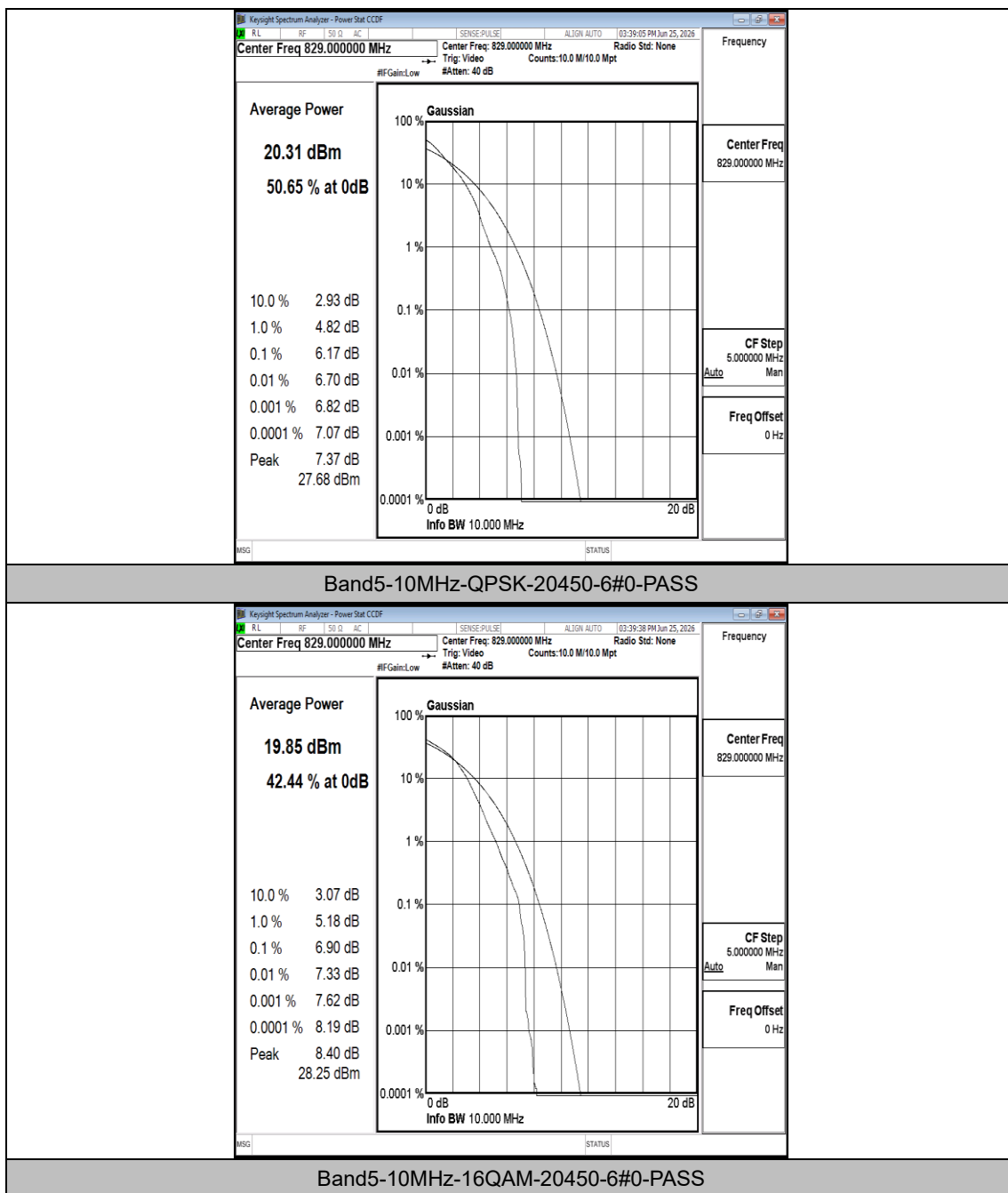


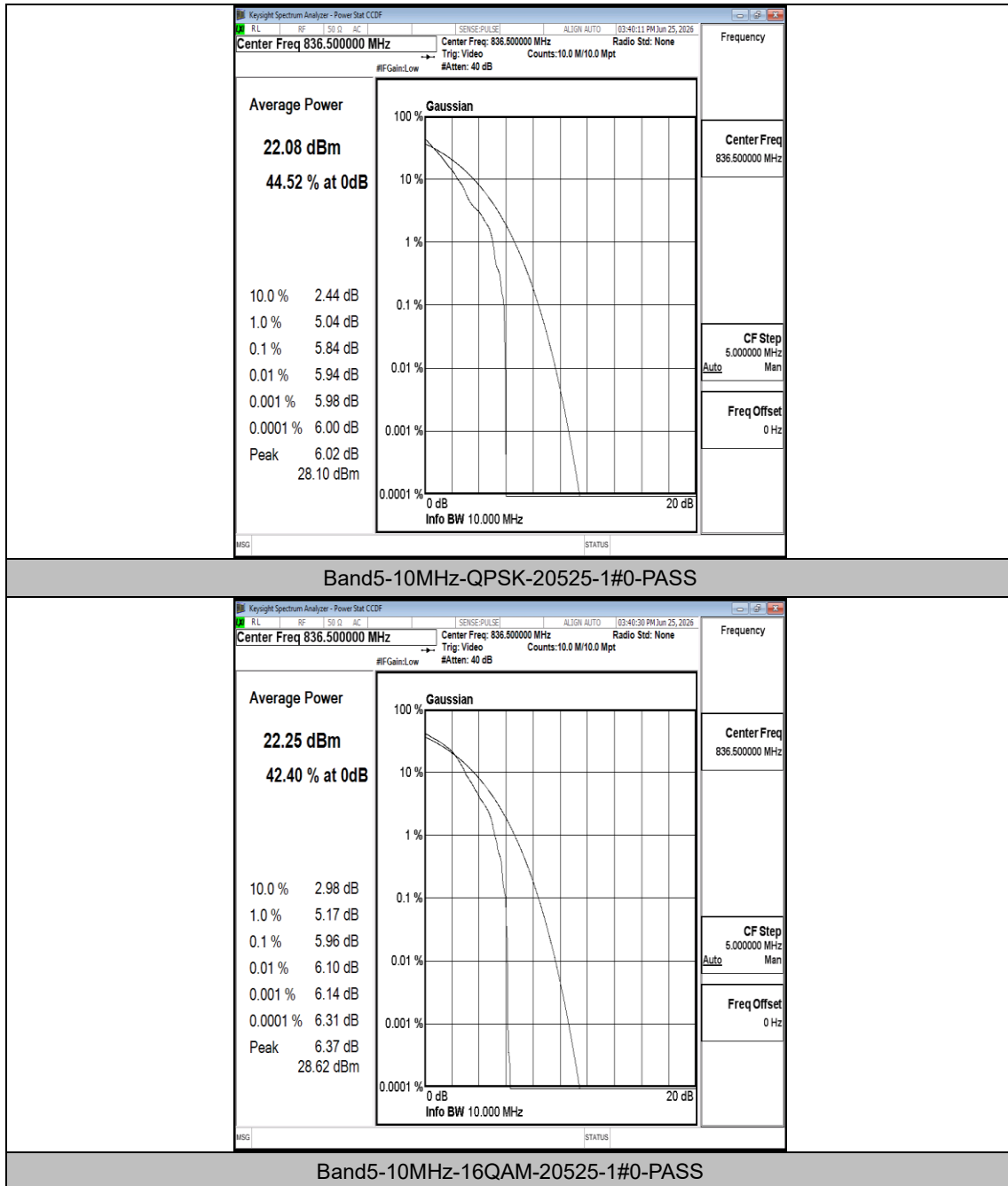


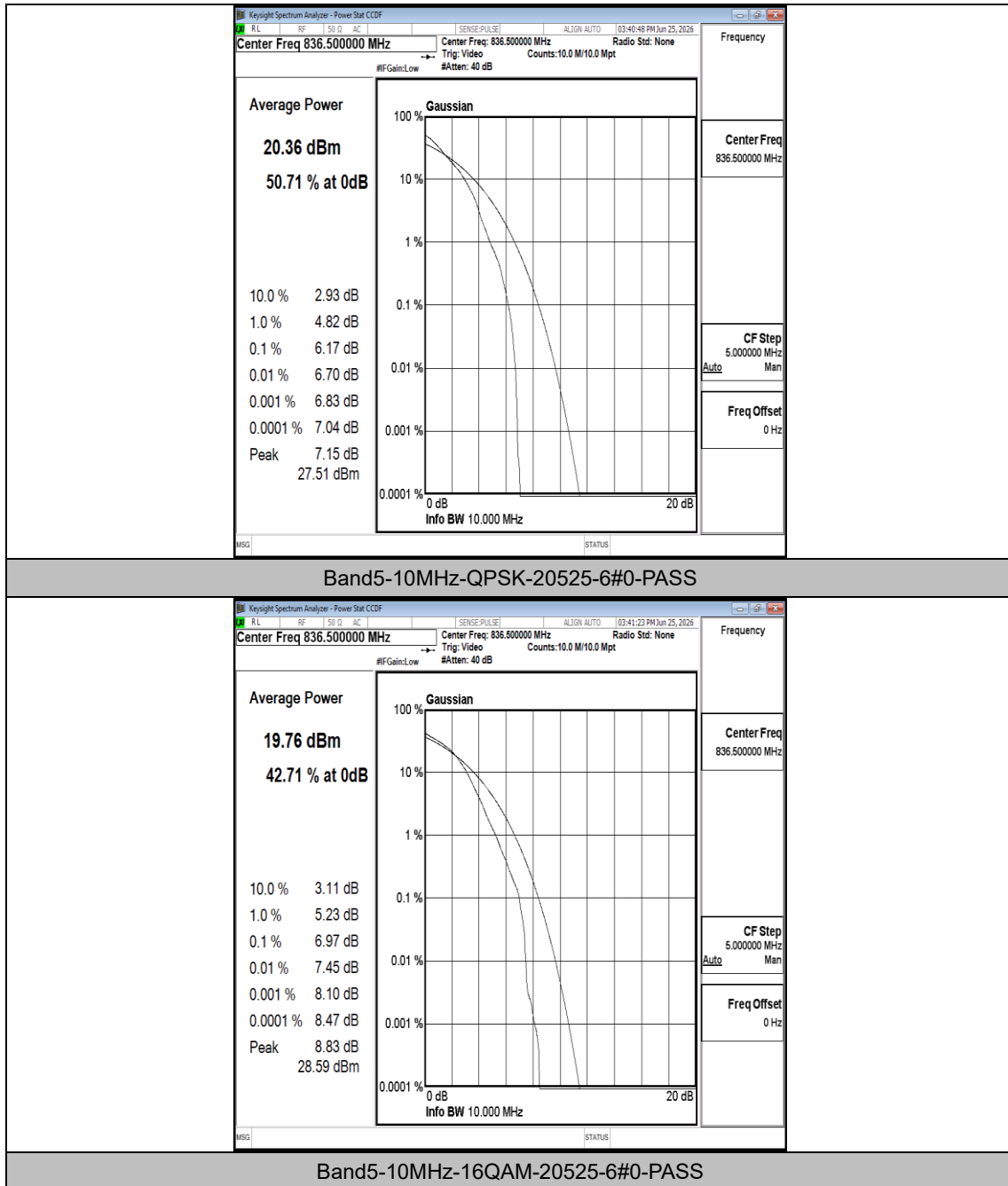


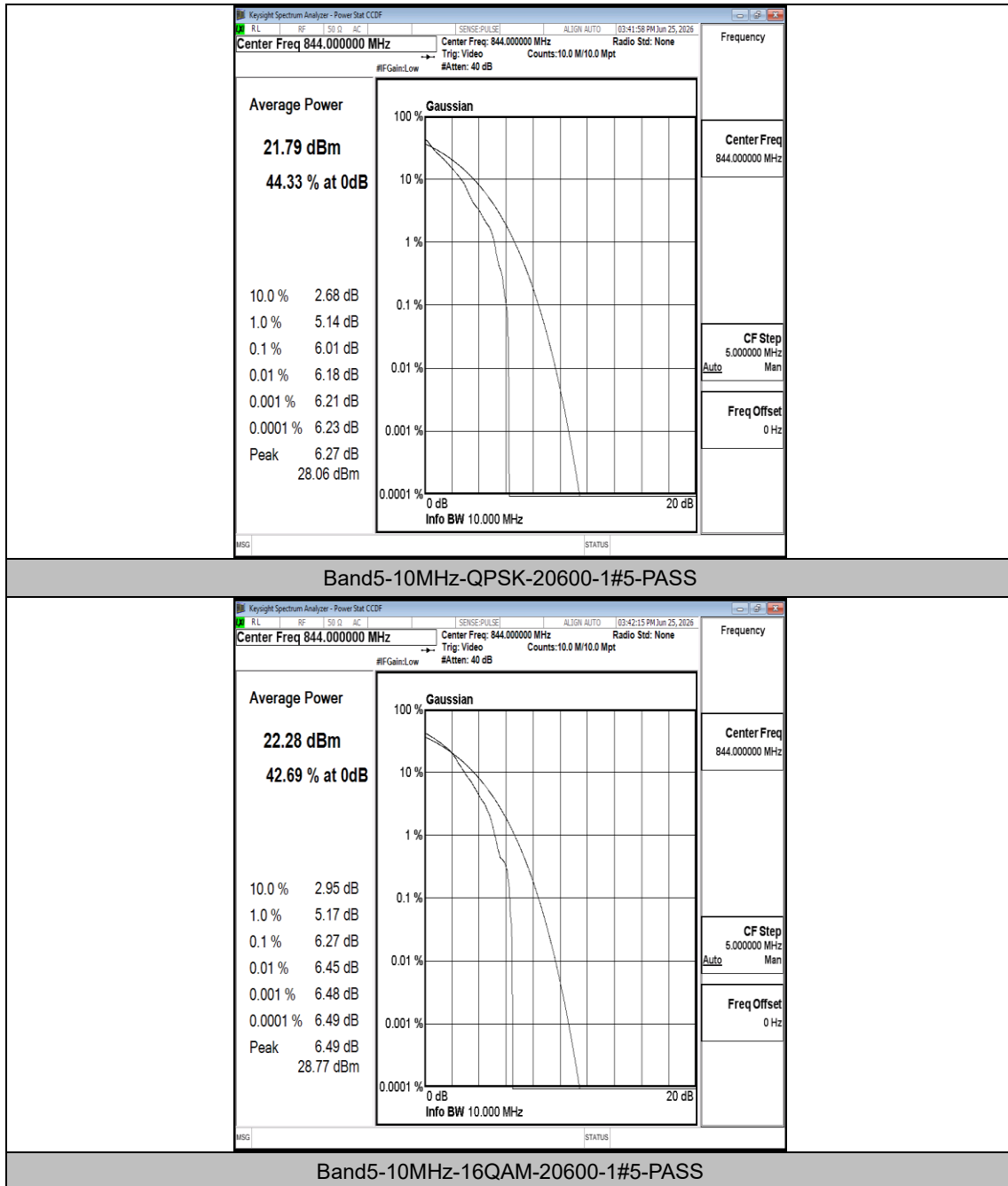


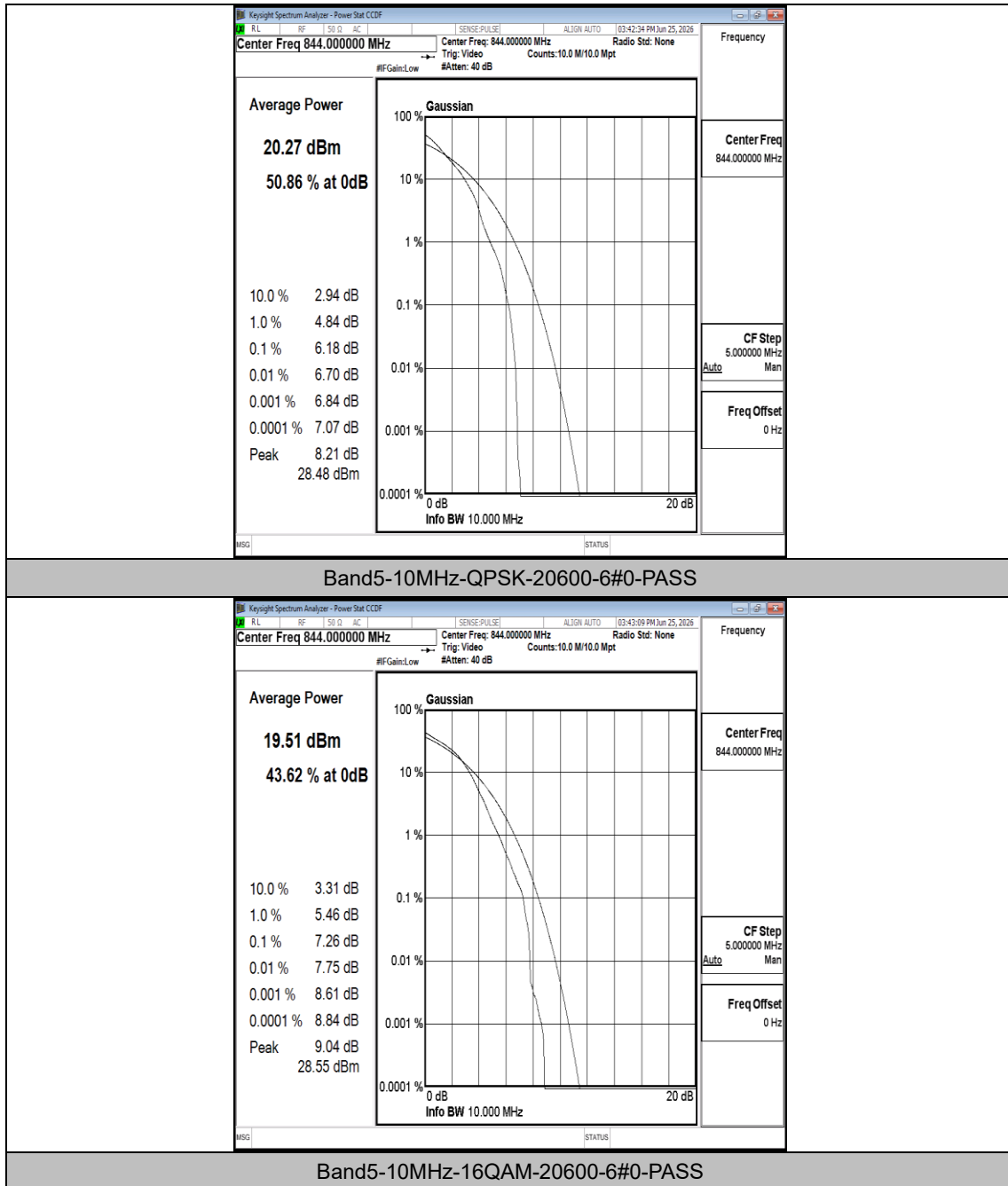












D.3 26dB Bandwidth and Occupied Bandwidth for M1

Test Result

Band	Bandwidth	Modulation	Channel	RB Size	RB Start	NB Index	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band5	1.4MHz	QPSK	20407	6	0	Low	1.0906	1.300	PASS
Band5	1.4MHz	16QAM	20407	6	0	Low	1.0836	1.329	PASS
Band5	1.4MHz	QPSK	20525	6	0	Low	1.0934	1.295	PASS
Band5	1.4MHz	16QAM	20525	6	0	Low	1.0886	1.332	PASS
Band5	1.4MHz	QPSK	20643	6	0	High	1.0923	1.297	PASS
Band5	1.4MHz	16QAM	20643	6	0	High	1.0877	1.326	PASS
Band5	3MHz	QPSK	20415	6	0	Low	1.1149	1.337	PASS
Band5	3MHz	16QAM	20415	6	0	Low	1.1194	1.427	PASS
Band5	3MHz	QPSK	20525	6	0	Low	1.1178	1.341	PASS
Band5	3MHz	16QAM	20525	6	0	Low	1.1124	1.374	PASS
Band5	3MHz	QPSK	20635	6	0	High	1.1187	1.332	PASS
Band5	3MHz	16QAM	20635	6	0	High	1.1155	1.383	PASS
Band5	5MHz	QPSK	20425	6	0	Low	1.1842	1.470	PASS
Band5	5MHz	16QAM	20425	6	0	Low	1.1650	1.480	PASS
Band5	5MHz	QPSK	20525	6	0	Low	1.1836	1.470	PASS
Band5	5MHz	16QAM	20525	6	0	Low	1.1672	1.467	PASS
Band5	5MHz	QPSK	20625	6	0	High	1.1942	1.453	PASS
Band5	5MHz	16QAM	20625	6	0	High	1.1638	1.440	PASS
Band5	10MHz	QPSK	20450	6	0	Low	1.3418	1.763	PASS
Band5	10MHz	16QAM	20450	6	0	Low	1.3033	1.805	PASS
Band5	10MHz	QPSK	20525	6	0	Low	1.3238	1.742	PASS
Band5	10MHz	16QAM	20525	6	0	Low	1.3044	1.736	PASS
Band5	10MHz	QPSK	20600	6	0	High	1.3353	1.715	PASS
Band5	10MHz	16QAM	20600	6	0	High	1.3048	1.753	PASS

Test Graphs

