

Appendix D: Test Data for E-UTRA Band 5

Product Name: ASSET 4G- SF iRF

Test Model: ASSET 4G- SF iRF

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 Configuration	Power(dBm)	Verdict
Band5	1.4MHz	QPSK	20407	1RB#0	25.13	PASS
Band5	1.4MHz	QPSK	20407	1RB#2	25.09	PASS
Band5	1.4MHz	QPSK	20407	1RB#5	25.01	PASS
Band5	1.4MHz	QPSK	20407	3RB#0	25.06	PASS
Band5	1.4MHz	QPSK	20407	3RB#1	25.03	PASS
Band5	1.4MHz	QPSK	20407	3RB#3	24.94	PASS
Band5	1.4MHz	QPSK	20407	6RB#0	24.07	PASS
Band5	1.4MHz	16QAM	20407	1RB#0	24.28	PASS
Band5	1.4MHz	16QAM	20407	1RB#2	24.23	PASS
Band5	1.4MHz	16QAM	20407	1RB#5	24.21	PASS
Band5	1.4MHz	16QAM	20407	3RB#0	24.10	PASS
Band5	1.4MHz	16QAM	20407	3RB#1	24.23	PASS
Band5	1.4MHz	16QAM	20407	3RB#3	24.00	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	23.05	PASS
Band5	1.4MHz	QPSK	20525	1RB#0	24.70	PASS
Band5	1.4MHz	QPSK	20525	1RB#2	24.66	PASS
Band5	1.4MHz	QPSK	20525	1RB#5	24.66	PASS
Band5	1.4MHz	QPSK	20525	3RB#0	24.60	PASS
Band5	1.4MHz	QPSK	20525	3RB#1	24.76	PASS
Band5	1.4MHz	QPSK	20525	3RB#3	24.70	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	23.79	PASS
Band5	1.4MHz	16QAM	20525	1RB#0	23.78	PASS
Band5	1.4MHz	16QAM	20525	1RB#2	24.25	PASS
Band5	1.4MHz	16QAM	20525	1RB#5	23.78	PASS
Band5	1.4MHz	16QAM	20525	3RB#0	23.57	PASS
Band5	1.4MHz	16QAM	20525	3RB#1	23.84	PASS
Band5	1.4MHz	16QAM	20525	3RB#3	23.68	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	22.80	PASS
Band5	1.4MHz	QPSK	20643	1RB#0	24.74	PASS
Band5	1.4MHz	QPSK	20643	1RB#2	24.69	PASS
Band5	1.4MHz	QPSK	20643	1RB#5	24.53	PASS
Band5	1.4MHz	QPSK	20643	3RB#0	24.80	PASS
Band5	1.4MHz	QPSK	20643	3RB#1	24.73	PASS
Band5	1.4MHz	QPSK	20643	3RB#3	24.61	PASS

Band5	1.4MHz	QPSK	20643	6RB#0	23.66	PASS
Band5	1.4MHz	16QAM	20643	1RB#0	23.91	PASS
Band5	1.4MHz	16QAM	20643	1RB#2	23.87	PASS
Band5	1.4MHz	16QAM	20643	1RB#5	23.64	PASS
Band5	1.4MHz	16QAM	20643	3RB#0	23.80	PASS
Band5	1.4MHz	16QAM	20643	3RB#1	23.75	PASS
Band5	1.4MHz	16QAM	20643	3RB#3	23.64	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	22.81	PASS
Band5	3MHz	QPSK	20415	1RB#0	24.58	PASS
Band5	3MHz	QPSK	20415	1RB#8	24.67	PASS
Band5	3MHz	QPSK	20415	1RB#14	24.50	PASS
Band5	3MHz	QPSK	20415	8RB#0	23.77	PASS
Band5	3MHz	QPSK	20415	8RB#4	23.80	PASS
Band5	3MHz	QPSK	20415	8RB#7	23.74	PASS
Band5	3MHz	QPSK	20415	15RB#0	23.73	PASS
Band5	3MHz	16QAM	20415	1RB#0	23.69	PASS
Band5	3MHz	16QAM	20415	1RB#8	24.28	PASS
Band5	3MHz	16QAM	20415	1RB#14	23.64	PASS
Band5	3MHz	16QAM	20415	8RB#0	22.80	PASS
Band5	3MHz	16QAM	20415	8RB#4	22.75	PASS
Band5	3MHz	16QAM	20415	8RB#7	22.77	PASS
Band5	3MHz	16QAM	20415	15RB#0	22.77	PASS
Band5	3MHz	QPSK	20525	1RB#0	24.51	PASS
Band5	3MHz	QPSK	20525	1RB#8	24.69	PASS
Band5	3MHz	QPSK	20525	1RB#14	24.64	PASS
Band5	3MHz	QPSK	20525	8RB#0	23.69	PASS
Band5	3MHz	QPSK	20525	8RB#4	23.74	PASS
Band5	3MHz	QPSK	20525	8RB#7	23.76	PASS
Band5	3MHz	QPSK	20525	15RB#0	23.70	PASS
Band5	3MHz	16QAM	20525	1RB#0	23.67	PASS
Band5	3MHz	16QAM	20525	1RB#8	23.86	PASS
Band5	3MHz	16QAM	20525	1RB#14	23.70	PASS
Band5	3MHz	16QAM	20525	8RB#0	22.73	PASS
Band5	3MHz	16QAM	20525	8RB#4	22.80	PASS
Band5	3MHz	16QAM	20525	8RB#7	22.79	PASS
Band5	3MHz	16QAM	20525	15RB#0	22.67	PASS
Band5	3MHz	QPSK	20635	1RB#0	24.65	PASS
Band5	3MHz	QPSK	20635	1RB#8	24.72	PASS
Band5	3MHz	QPSK	20635	1RB#14	24.29	PASS
Band5	3MHz	QPSK	20635	8RB#0	23.81	PASS
Band5	3MHz	QPSK	20635	8RB#4	23.80	PASS

Band5	3MHz	QPSK	20635	8RB#7	23.72	PASS
Band5	3MHz	QPSK	20635	15RB#0	23.73	PASS
Band5	3MHz	16QAM	20635	1RB#0	23.96	PASS
Band5	3MHz	16QAM	20635	1RB#8	24.14	PASS
Band5	3MHz	16QAM	20635	1RB#14	23.64	PASS
Band5	3MHz	16QAM	20635	8RB#0	22.91	PASS
Band5	3MHz	16QAM	20635	8RB#4	22.79	PASS
Band5	3MHz	16QAM	20635	8RB#7	22.89	PASS
Band5	3MHz	16QAM	20635	15RB#0	22.78	PASS
Band5	5MHz	QPSK	20425	1RB#0	24.86	PASS
Band5	5MHz	QPSK	20425	1RB#12	24.66	PASS
Band5	5MHz	QPSK	20425	1RB#24	24.66	PASS
Band5	5MHz	QPSK	20425	12RB#0	23.81	PASS
Band5	5MHz	QPSK	20425	12RB#6	23.77	PASS
Band5	5MHz	QPSK	20425	12RB#13	23.76	PASS
Band5	5MHz	QPSK	20425	25RB#0	23.81	PASS
Band5	5MHz	16QAM	20425	1RB#0	24.21	PASS
Band5	5MHz	16QAM	20425	1RB#12	24.10	PASS
Band5	5MHz	16QAM	20425	1RB#24	24.02	PASS
Band5	5MHz	16QAM	20425	12RB#0	22.95	PASS
Band5	5MHz	16QAM	20425	12RB#6	22.87	PASS
Band5	5MHz	16QAM	20425	12RB#13	22.90	PASS
Band5	5MHz	16QAM	20425	25RB#0	22.83	PASS
Band5	5MHz	QPSK	20525	1RB#0	24.68	PASS
Band5	5MHz	QPSK	20525	1RB#12	24.73	PASS
Band5	5MHz	QPSK	20525	1RB#24	24.80	PASS
Band5	5MHz	QPSK	20525	12RB#0	23.74	PASS
Band5	5MHz	QPSK	20525	12RB#6	23.77	PASS
Band5	5MHz	QPSK	20525	12RB#13	23.84	PASS
Band5	5MHz	QPSK	20525	25RB#0	23.77	PASS
Band5	5MHz	16QAM	20525	1RB#0	23.88	PASS
Band5	5MHz	16QAM	20525	1RB#12	23.92	PASS
Band5	5MHz	16QAM	20525	1RB#24	23.94	PASS
Band5	5MHz	16QAM	20525	12RB#0	22.79	PASS
Band5	5MHz	16QAM	20525	12RB#6	22.77	PASS
Band5	5MHz	16QAM	20525	12RB#13	22.89	PASS
Band5	5MHz	16QAM	20525	25RB#0	22.83	PASS
Band5	5MHz	QPSK	20625	1RB#0	24.60	PASS
Band5	5MHz	QPSK	20625	1RB#12	24.65	PASS
Band5	5MHz	QPSK	20625	1RB#24	24.40	PASS
Band5	5MHz	QPSK	20625	12RB#0	23.64	PASS

Band5	5MHz	QPSK	20625	12RB#6	23.66	PASS
Band5	5MHz	QPSK	20625	12RB#13	23.58	PASS
Band5	5MHz	QPSK	20625	25RB#0	23.60	PASS
Band5	5MHz	16QAM	20625	1RB#0	23.55	PASS
Band5	5MHz	16QAM	20625	1RB#12	23.74	PASS
Band5	5MHz	16QAM	20625	1RB#24	23.44	PASS
Band5	5MHz	16QAM	20625	12RB#0	22.89	PASS
Band5	5MHz	16QAM	20625	12RB#6	22.81	PASS
Band5	5MHz	16QAM	20625	12RB#13	22.84	PASS
Band5	5MHz	16QAM	20625	25RB#0	22.74	PASS
Band5	10MHz	QPSK	20450	1RB#0	24.51	PASS
Band5	10MHz	QPSK	20450	1RB#24	24.24	PASS
Band5	10MHz	QPSK	20450	1RB#49	24.32	PASS
Band5	10MHz	QPSK	20450	25RB#0	23.40	PASS
Band5	10MHz	QPSK	20450	25RB#12	23.34	PASS
Band5	10MHz	QPSK	20450	25RB#25	23.32	PASS
Band5	10MHz	QPSK	20450	50RB#0	23.39	PASS
Band5	10MHz	16QAM	20450	1RB#0	23.62	PASS
Band5	10MHz	16QAM	20450	1RB#24	23.81	PASS
Band5	10MHz	16QAM	20450	1RB#49	23.45	PASS
Band5	10MHz	16QAM	20450	25RB#0	22.53	PASS
Band5	10MHz	16QAM	20450	25RB#12	22.50	PASS
Band5	10MHz	16QAM	20450	25RB#25	22.45	PASS
Band5	10MHz	QPSK	20525	1RB#0	24.70	PASS
Band5	10MHz	QPSK	20525	1RB#24	24.70	PASS
Band5	10MHz	QPSK	20525	1RB#49	24.68	PASS
Band5	10MHz	QPSK	20525	25RB#0	23.69	PASS
Band5	10MHz	QPSK	20525	25RB#12	23.75	PASS
Band5	10MHz	QPSK	20525	25RB#25	23.80	PASS
Band5	10MHz	QPSK	20525	50RB#0	23.83	PASS
Band5	10MHz	16QAM	20525	1RB#0	23.77	PASS
Band5	10MHz	16QAM	20525	1RB#24	23.84	PASS
Band5	10MHz	16QAM	20525	1RB#49	23.77	PASS
Band5	10MHz	16QAM	20525	25RB#0	22.77	PASS
Band5	10MHz	16QAM	20525	25RB#12	22.73	PASS
Band5	10MHz	16QAM	20525	25RB#25	22.89	PASS
Band5	10MHz	QPSK	20600	1RB#0	24.88	PASS
Band5	10MHz	QPSK	20600	1RB#24	24.61	PASS
Band5	10MHz	QPSK	20600	1RB#49	24.52	PASS
Band5	10MHz	QPSK	20600	25RB#0	23.79	PASS
Band5	10MHz	QPSK	20600	25RB#12	23.64	PASS

Band5	10MHz	QPSK	20600	25RB#25	23.76	PASS
Band5	10MHz	QPSK	20600	50RB#0	23.94	PASS
Band5	10MHz	16QAM	20600	1RB#0	24.11	PASS
Band5	10MHz	16QAM	20600	1RB#24	23.95	PASS
Band5	10MHz	16QAM	20600	1RB#49	23.77	PASS
Band5	10MHz	16QAM	20600	25RB#0	23.03	PASS
Band5	10MHz	16QAM	20600	25RB#12	22.82	PASS
Band5	10MHz	16QAM	20600	25RB#25	22.99	PASS

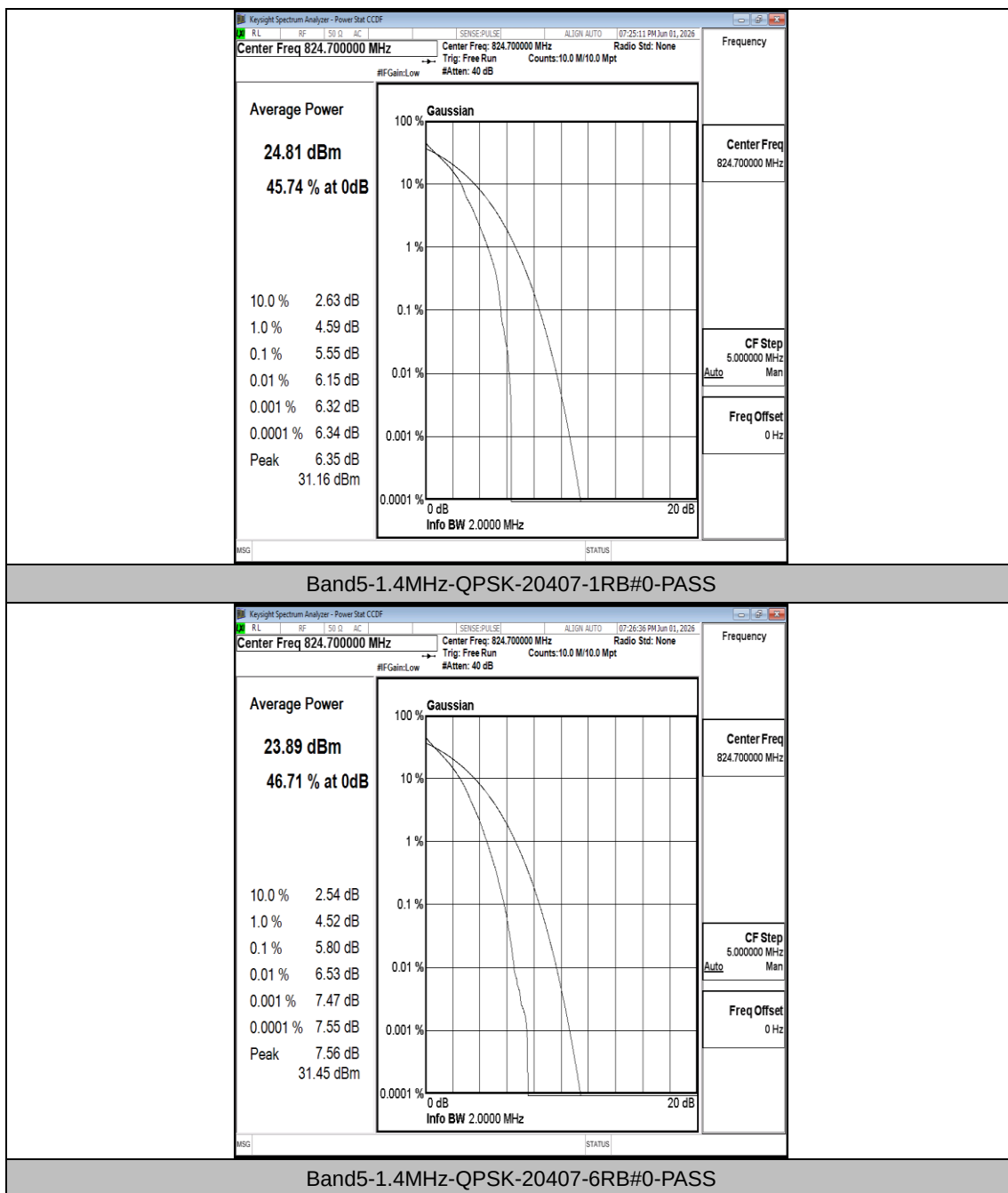
D.2 Peak-to-Average Ratio(CCDF)

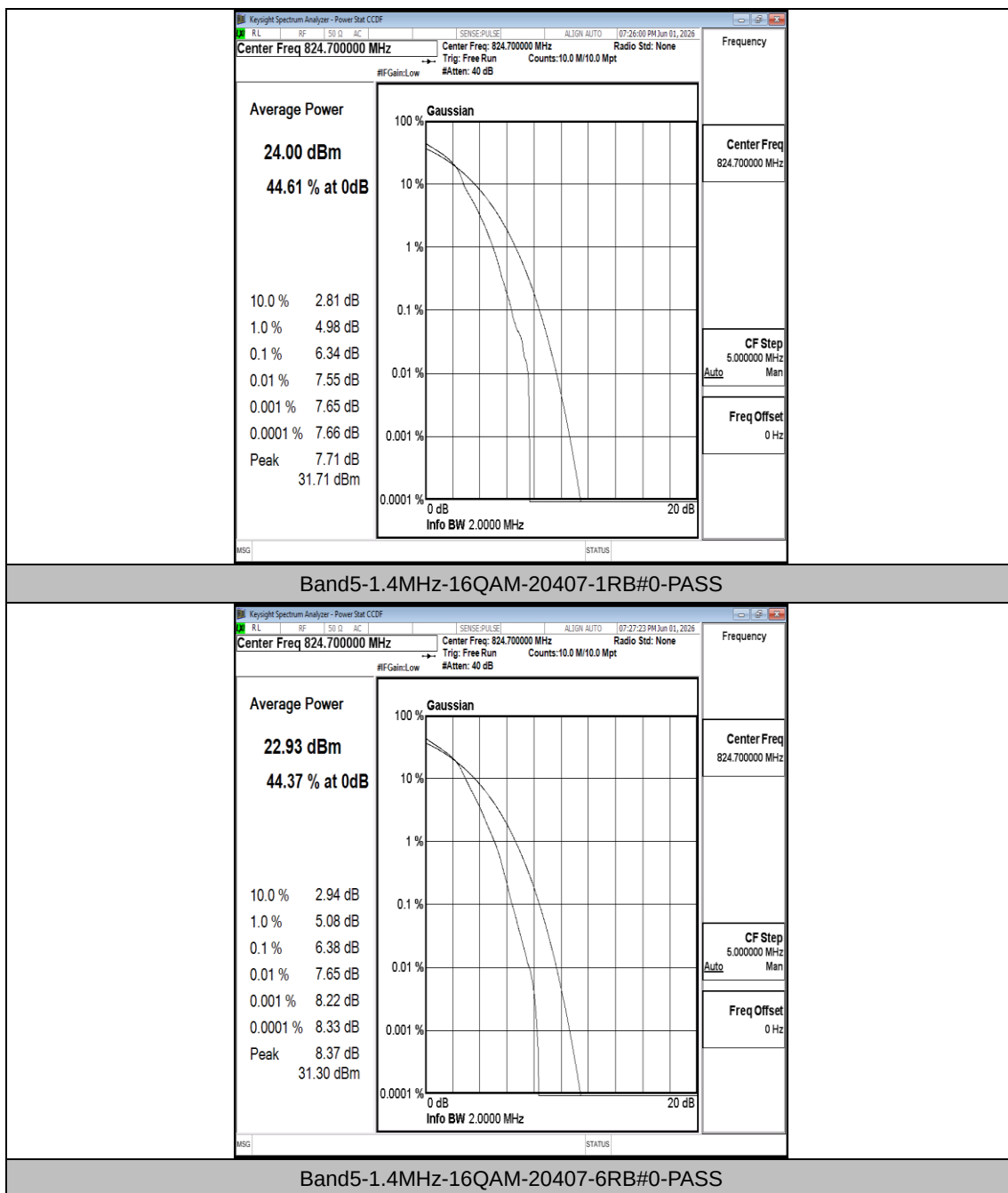
Test Result

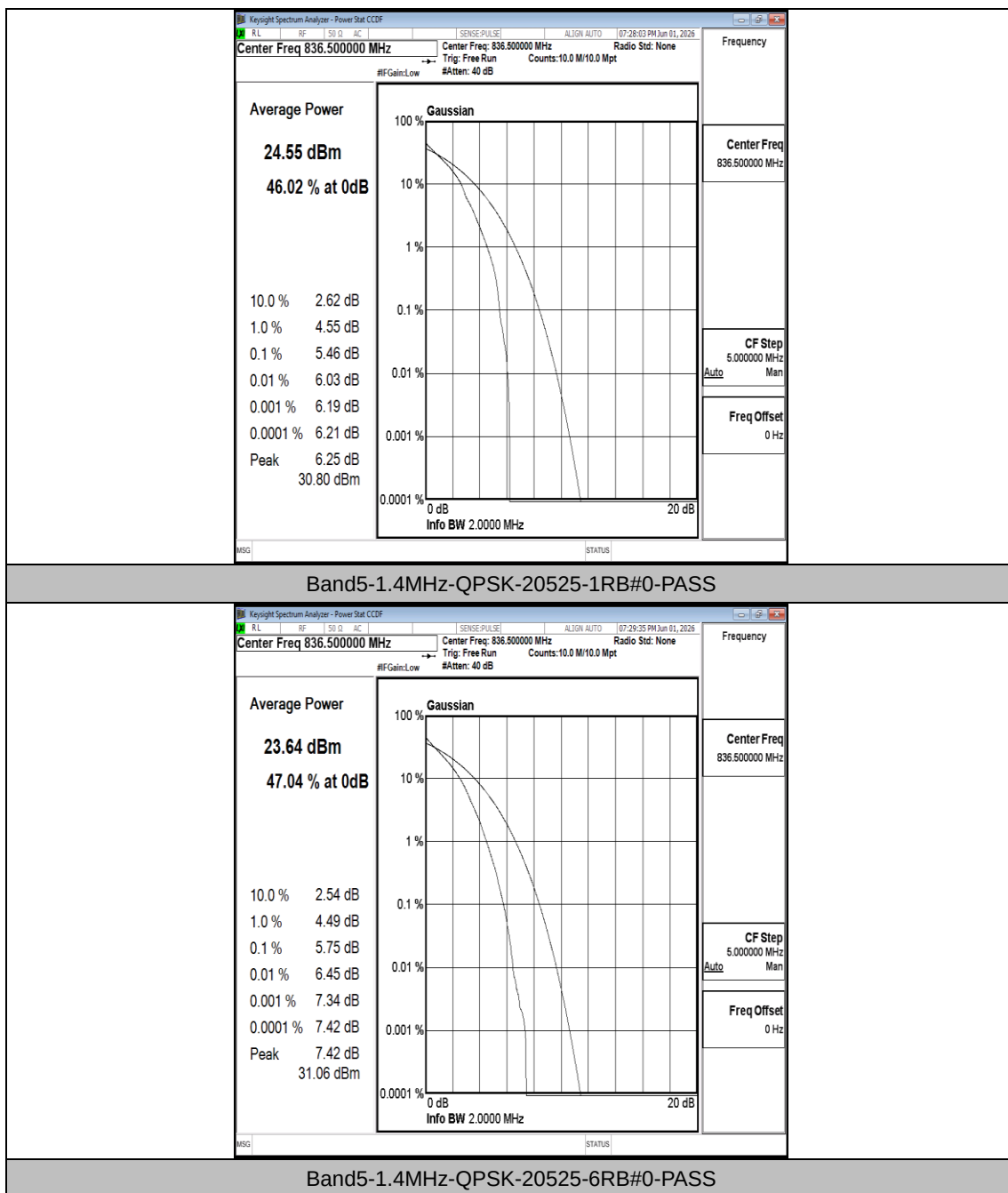
Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band5	1.4MHz	QPSK	20407	1RB#0	5.55	13	PASS
Band5	1.4MHz	QPSK	20407	6RB#0	5.80	13	PASS
Band5	1.4MHz	16QAM	20407	1RB#0	6.34	13	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	6.38	13	PASS
Band5	1.4MHz	QPSK	20525	1RB#0	5.46	13	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	5.75	13	PASS
Band5	1.4MHz	16QAM	20525	1RB#0	6.26	13	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	6.33	13	PASS
Band5	1.4MHz	QPSK	20643	1RB#0	5.30	13	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	5.65	13	PASS
Band5	1.4MHz	16QAM	20643	1RB#0	6.09	13	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	6.26	13	PASS
Band5	3MHz	QPSK	20415	1RB#0	5.56	13	PASS
Band5	3MHz	QPSK	20415	15RB#0	5.72	13	PASS
Band5	3MHz	16QAM	20415	1RB#0	6.68	13	PASS
Band5	3MHz	16QAM	20415	15RB#0	6.40	13	PASS
Band5	3MHz	QPSK	20525	1RB#0	5.48	13	PASS
Band5	3MHz	QPSK	20525	15RB#0	5.67	13	PASS
Band5	3MHz	16QAM	20525	1RB#0	6.57	13	PASS
Band5	3MHz	16QAM	20525	15RB#0	6.37	13	PASS
Band5	3MHz	QPSK	20635	1RB#0	5.36	13	PASS
Band5	3MHz	QPSK	20635	15RB#0	5.63	13	PASS
Band5	3MHz	16QAM	20635	1RB#0	6.39	13	PASS
Band5	3MHz	16QAM	20635	15RB#0	6.33	13	PASS
Band5	5MHz	QPSK	20425	1RB#0	5.38	13	PASS
Band5	5MHz	QPSK	20425	25RB#0	5.80	13	PASS
Band5	5MHz	16QAM	20425	1RB#0	6.34	13	PASS
Band5	5MHz	16QAM	20425	25RB#0	6.37	13	PASS
Band5	5MHz	QPSK	20525	1RB#0	5.30	13	PASS
Band5	5MHz	QPSK	20525	25RB#0	5.74	13	PASS
Band5	5MHz	16QAM	20525	1RB#0	6.25	13	PASS
Band5	5MHz	16QAM	20525	25RB#0	6.33	13	PASS
Band5	5MHz	QPSK	20625	1RB#0	5.32	13	PASS
Band5	5MHz	QPSK	20625	25RB#0	5.73	13	PASS

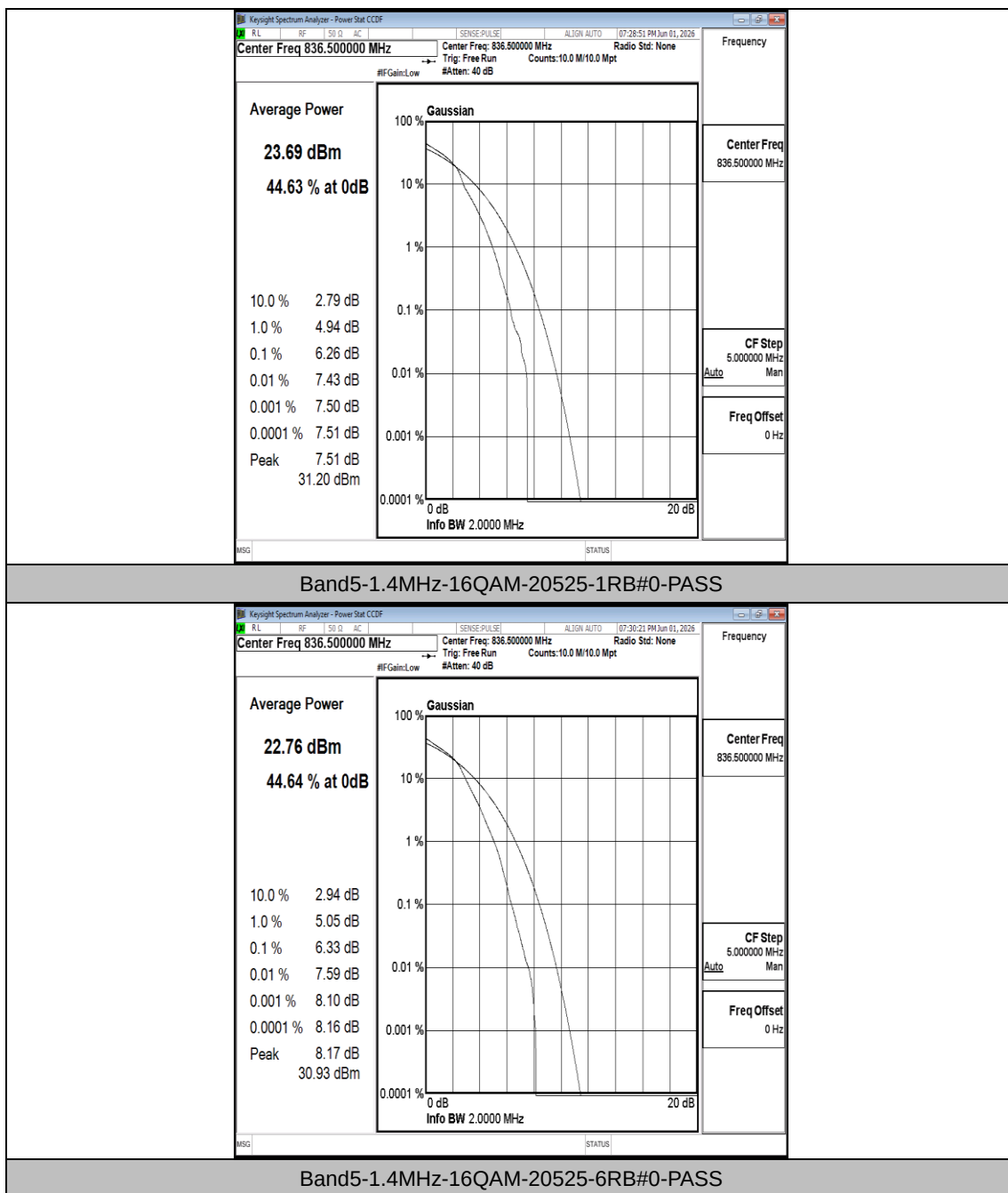
Band5	5MHz	16QAM	20625	1RB#0	6.30	13	PASS
Band5	5MHz	16QAM	20625	25RB#0	6.31	13	PASS
Band5	10MHz	QPSK	20450	1RB#0	5.47	13	PASS
Band5	10MHz	QPSK	20450	50RB#0	5.78	13	PASS
Band5	10MHz	16QAM	20450	1RB#0	6.61	13	PASS
Band5	10MHz	QPSK	20525	1RB#0	5.47	13	PASS
Band5	10MHz	QPSK	20525	50RB#0	5.70	13	PASS
Band5	10MHz	16QAM	20525	1RB#0	6.49	13	PASS
Band5	10MHz	QPSK	20600	1RB#0	5.30	13	PASS
Band5	10MHz	QPSK	20600	50RB#0	5.75	13	PASS
Band5	10MHz	16QAM	20600	1RB#0	6.35	13	PASS

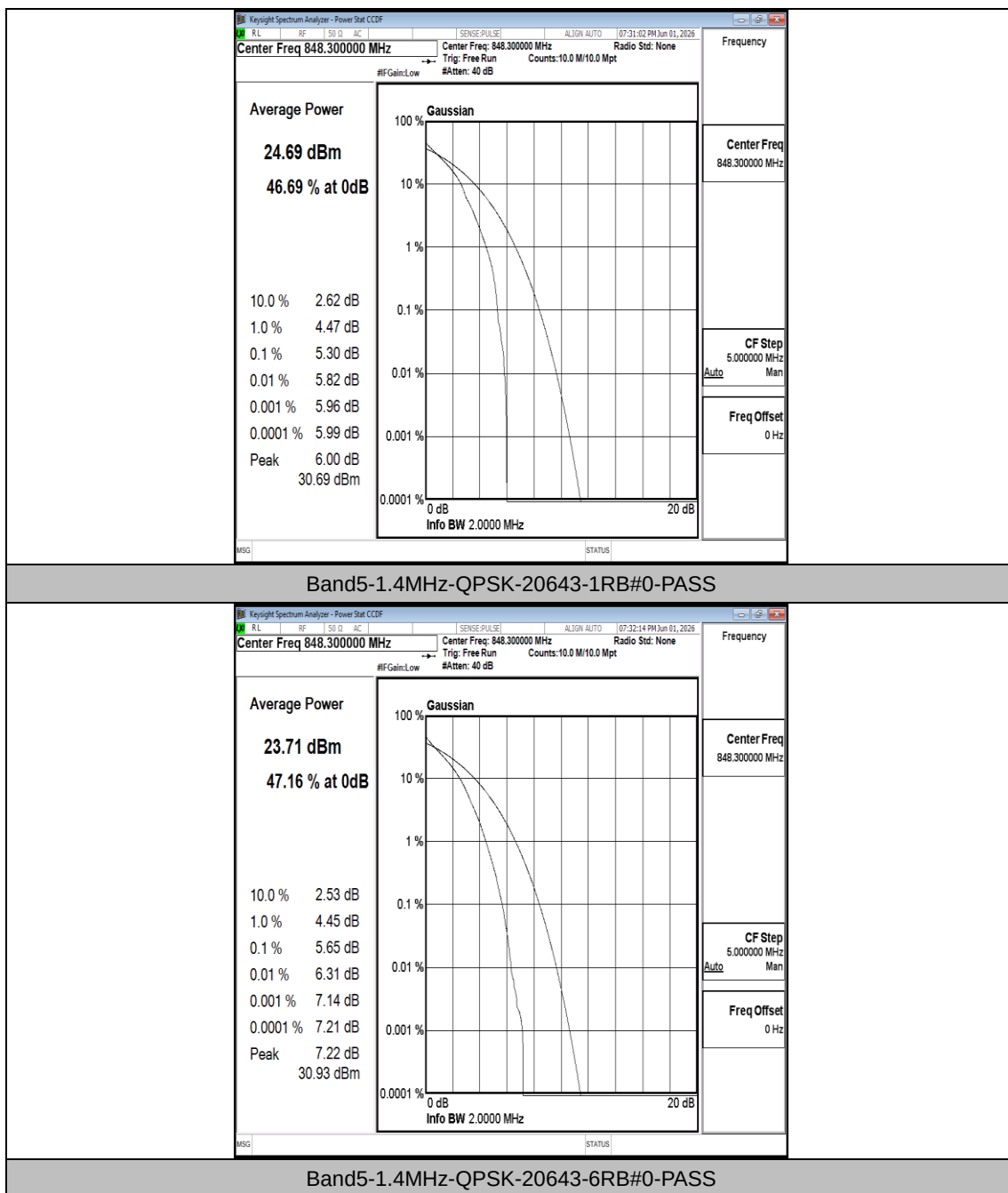
Test Graphs

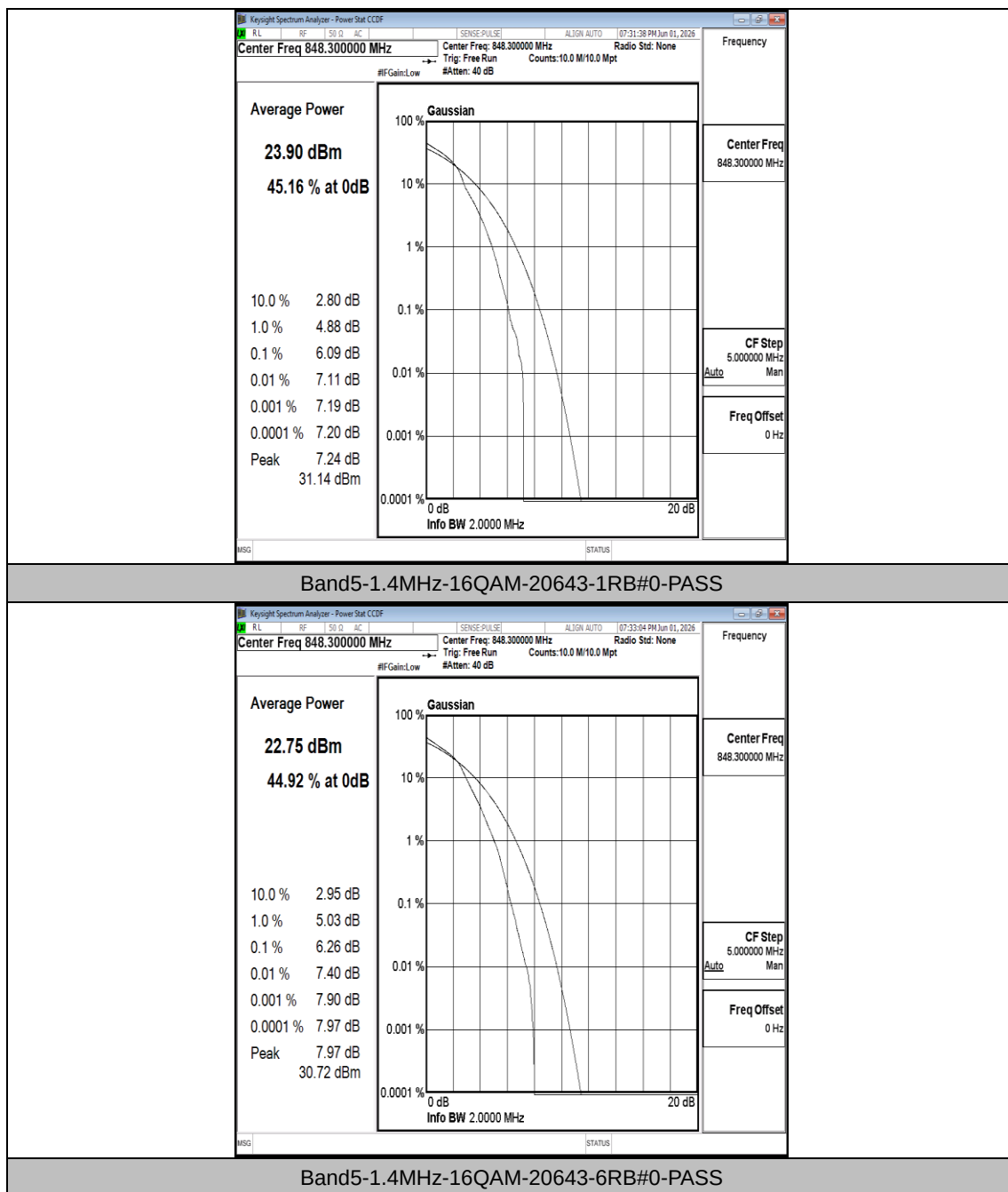


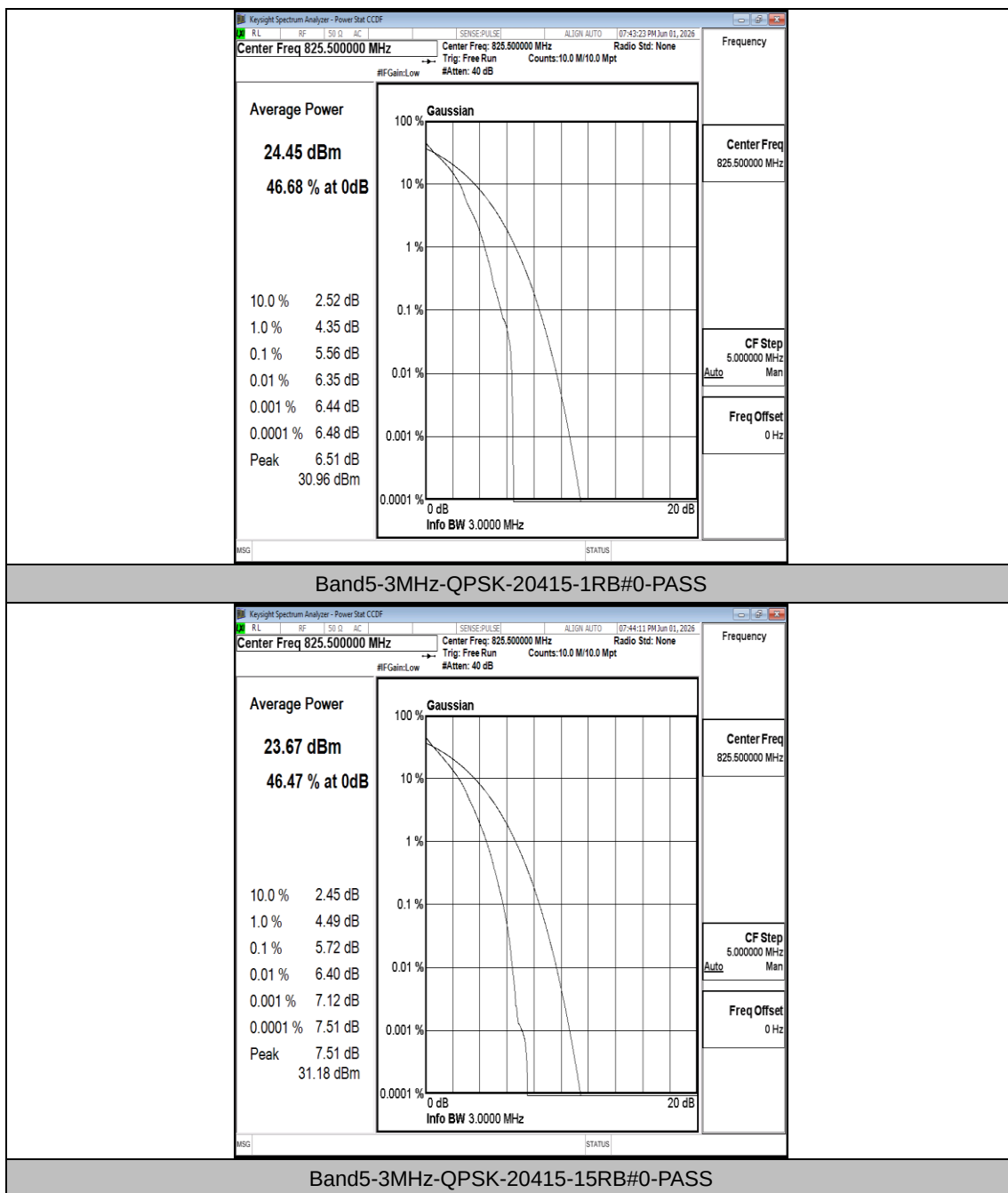


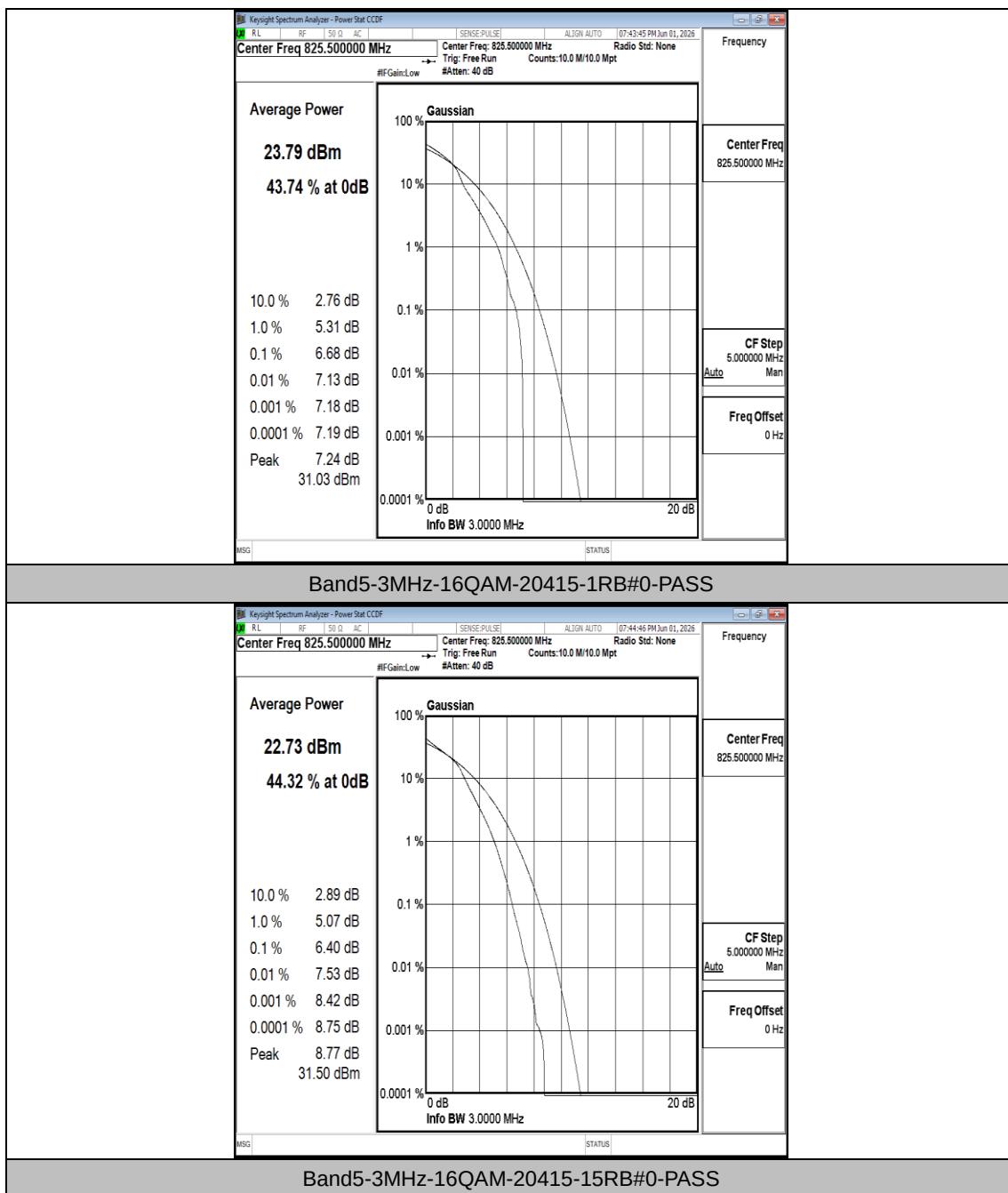


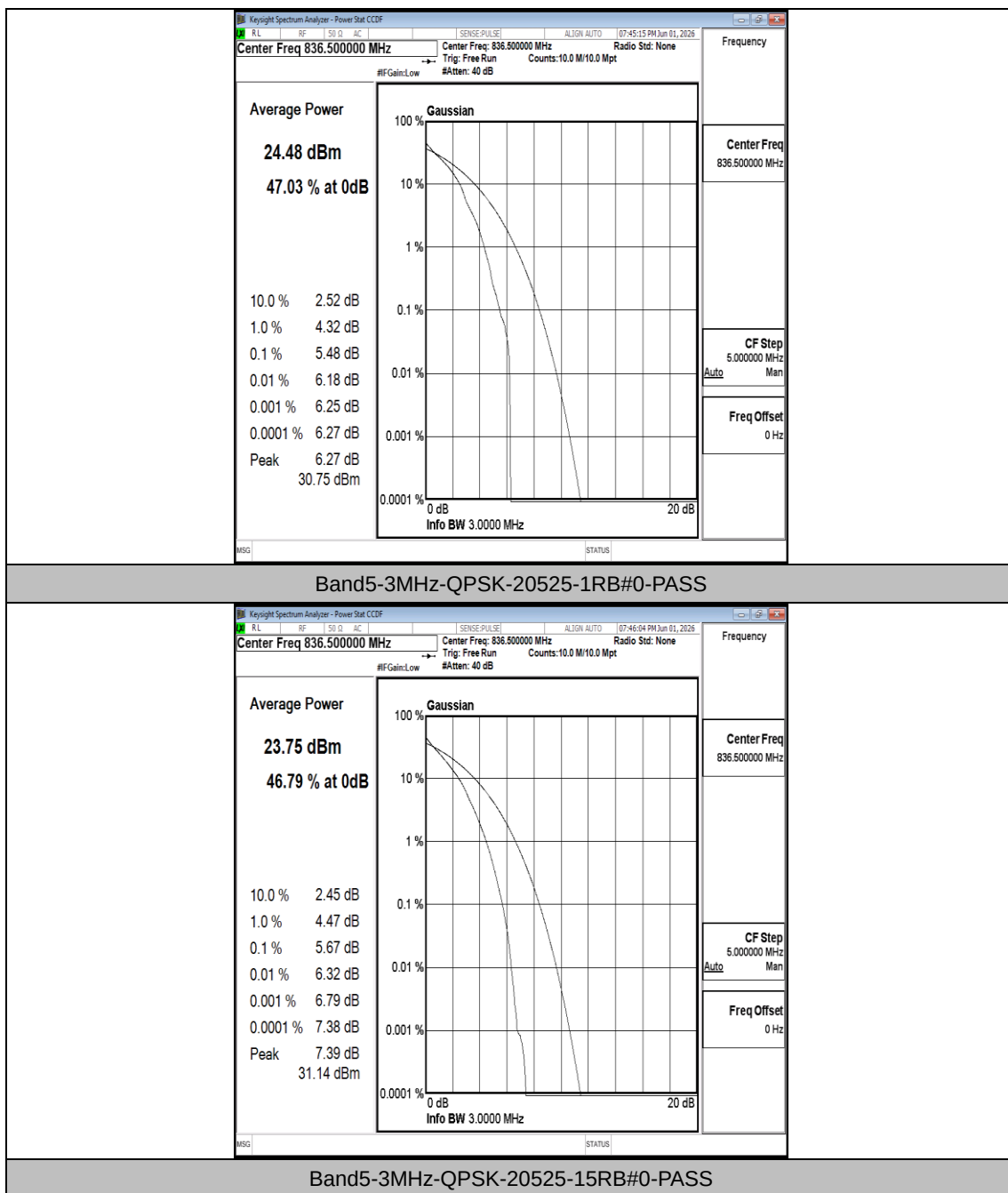


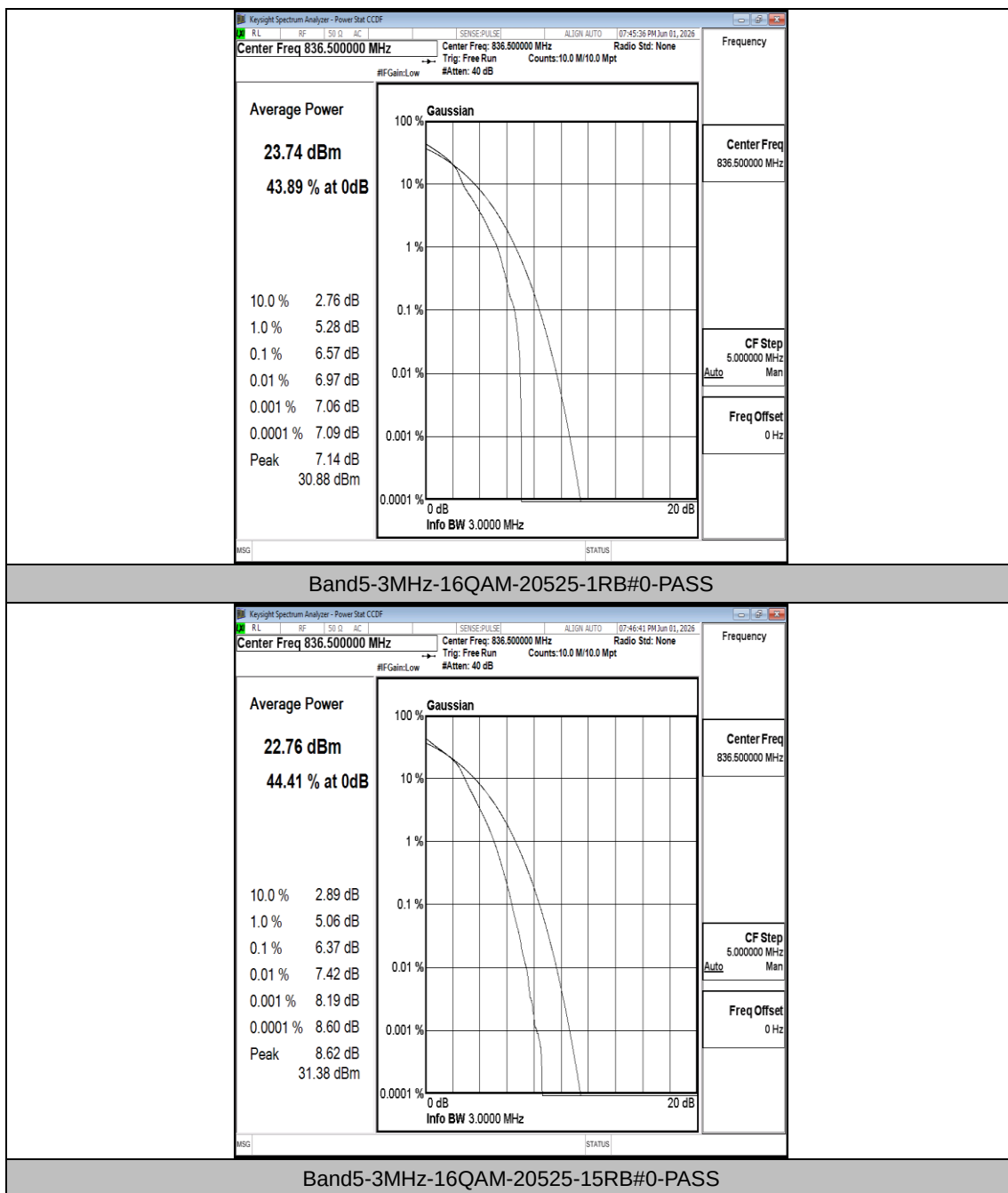


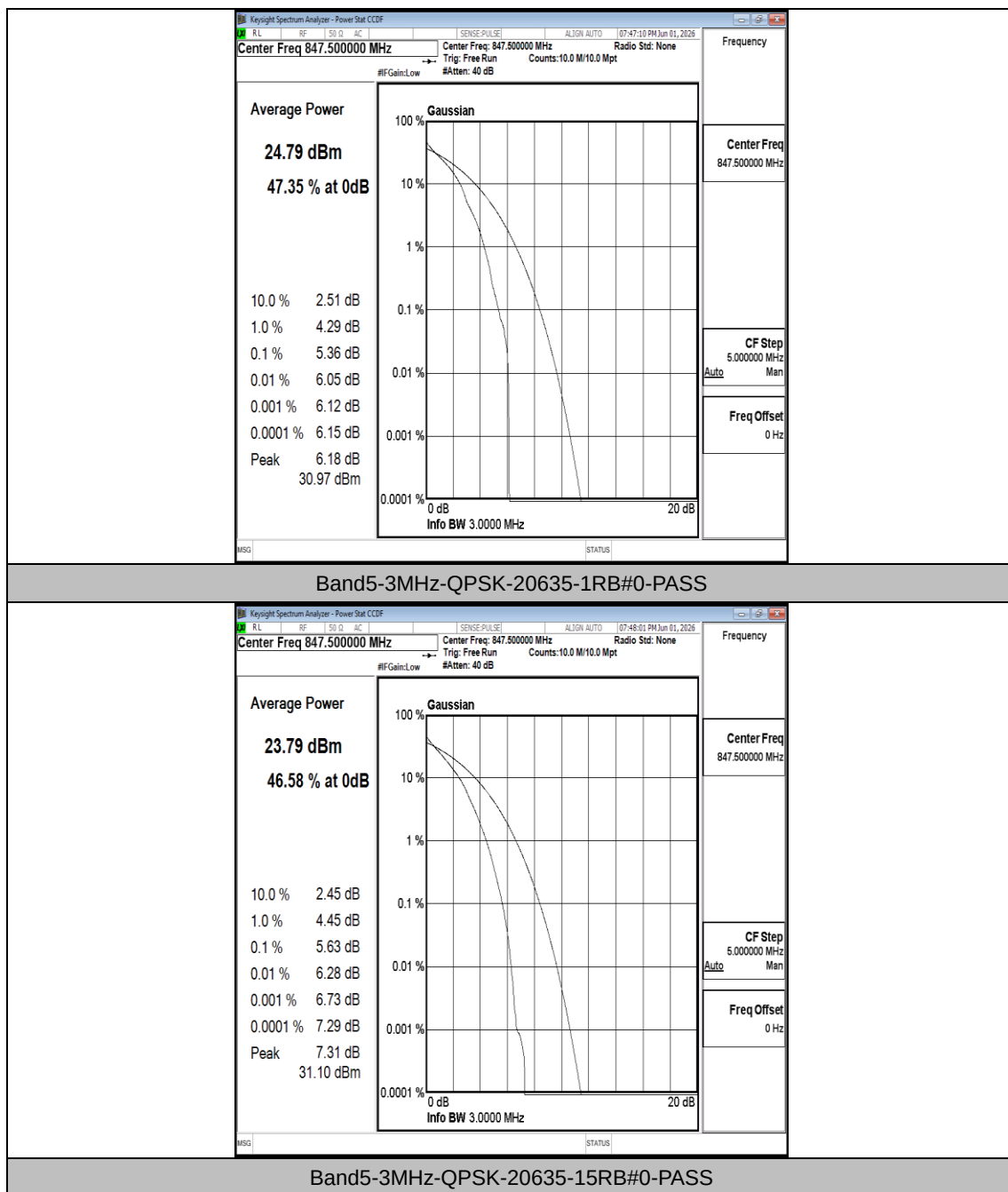


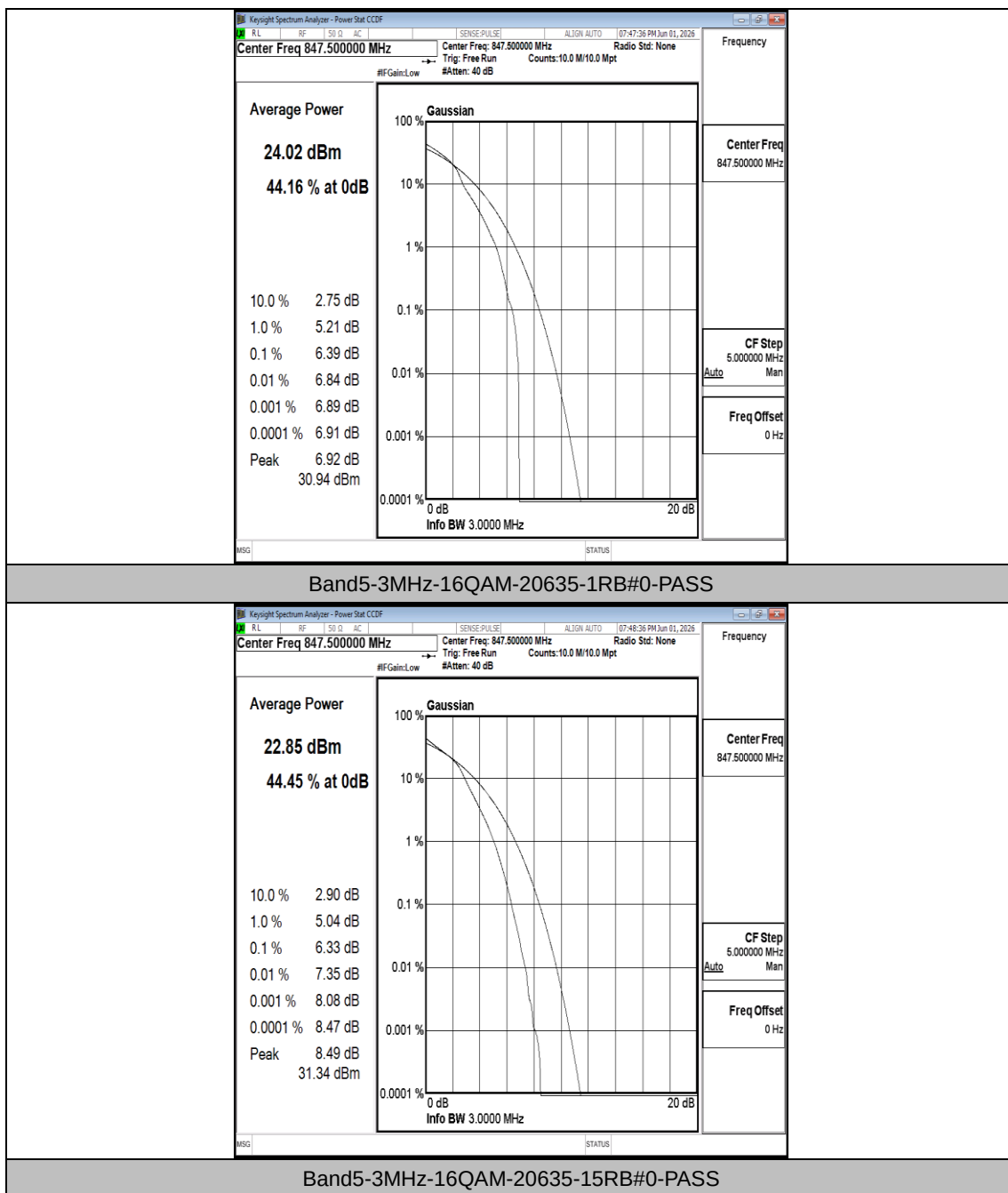


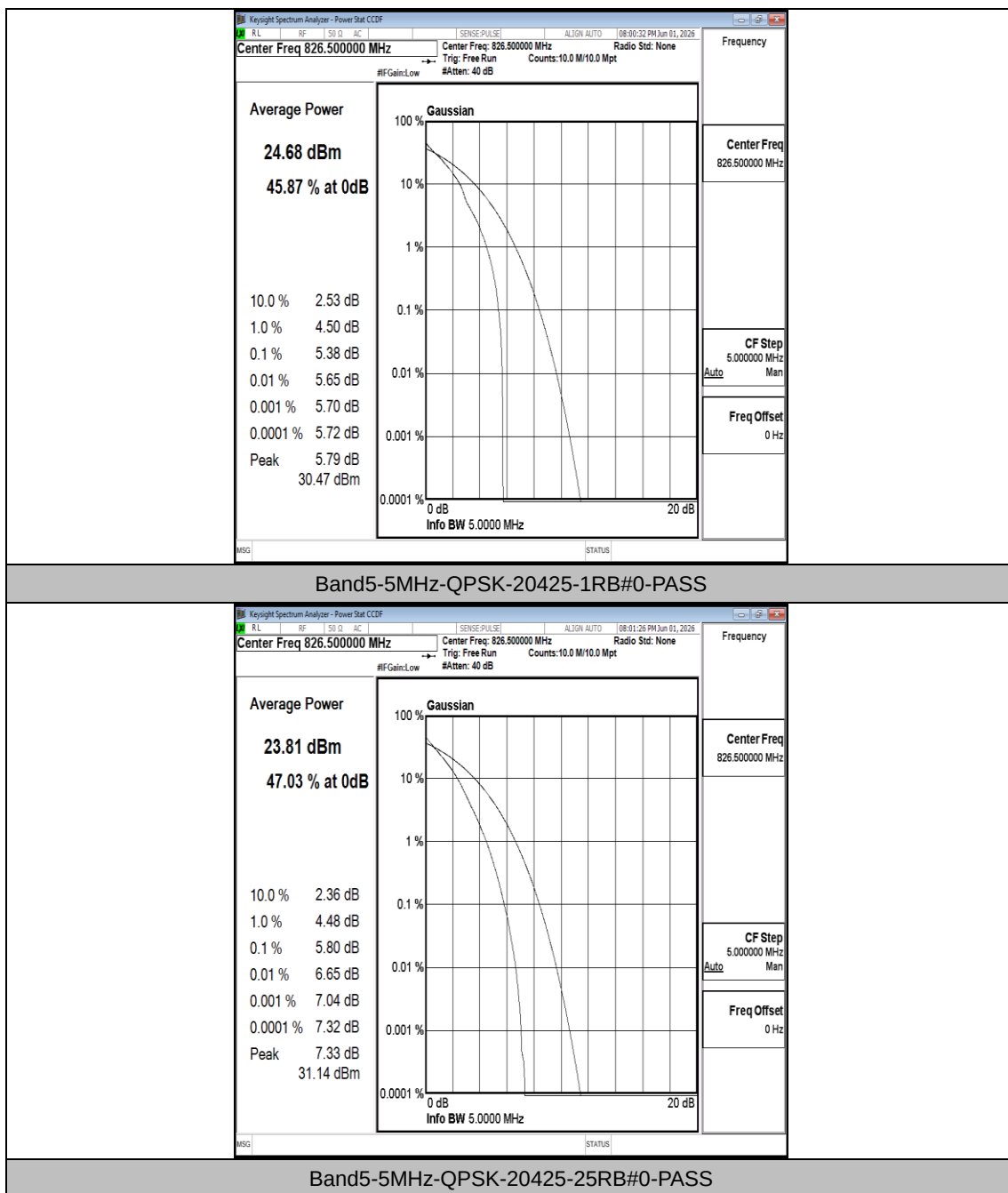


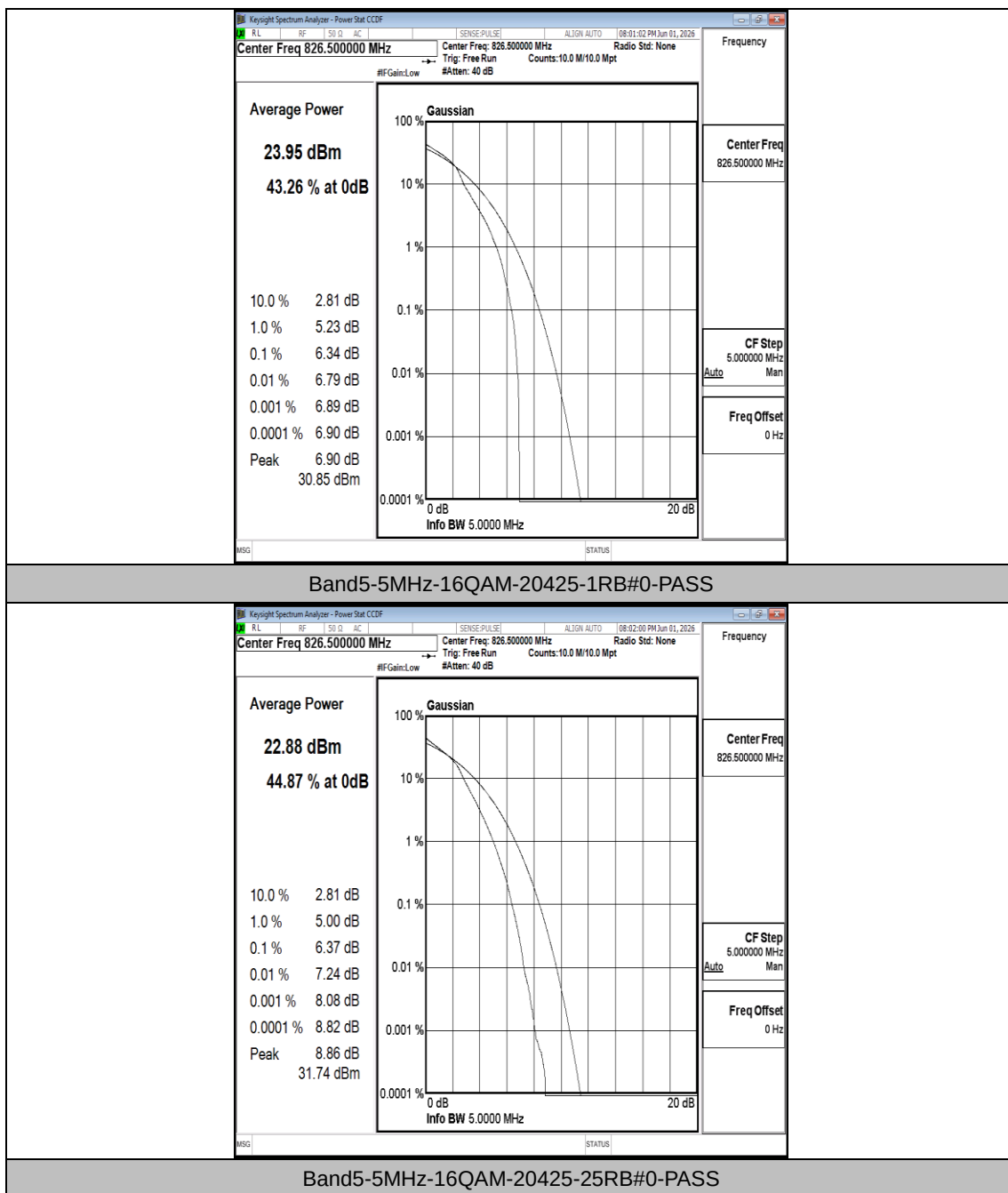


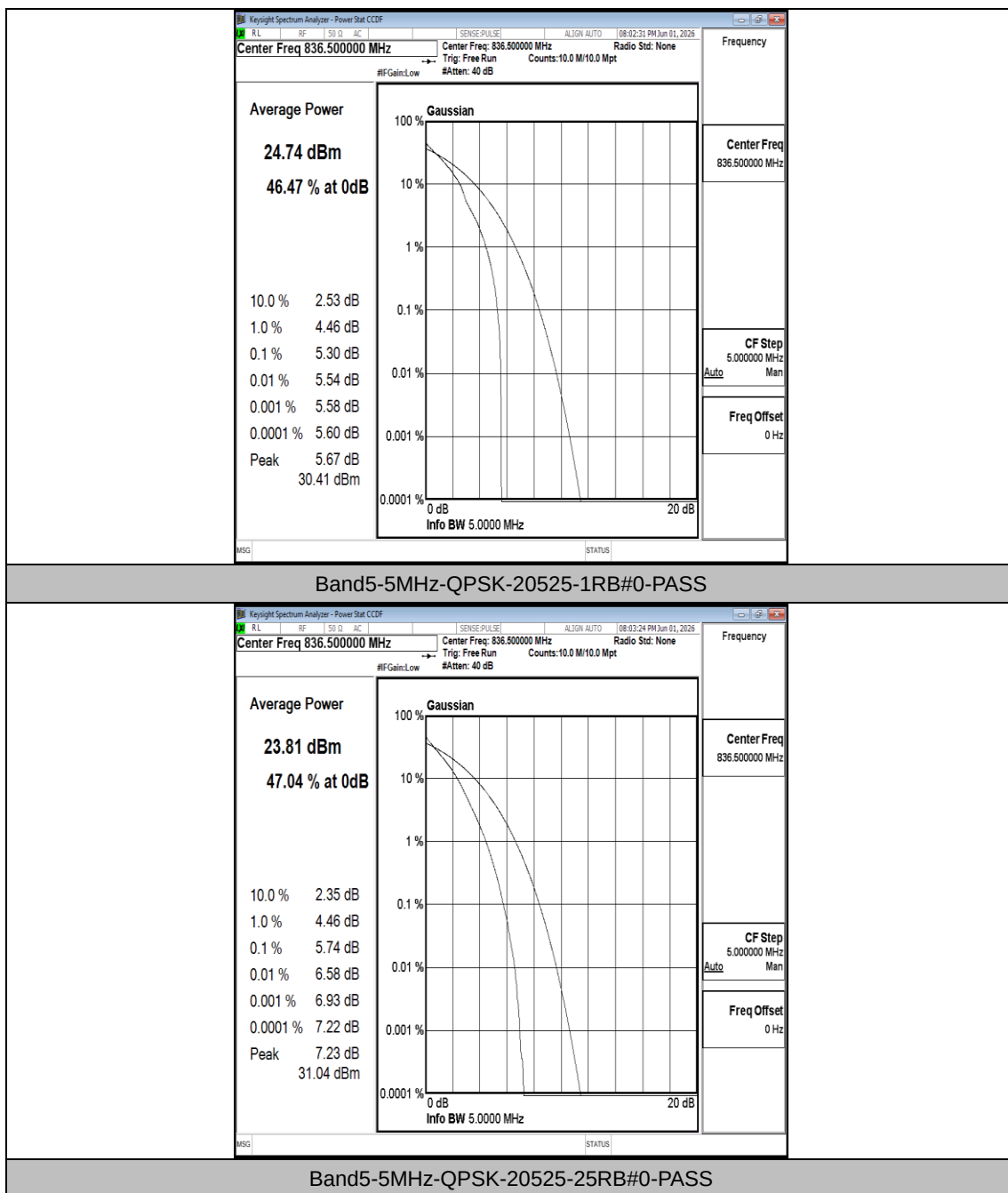


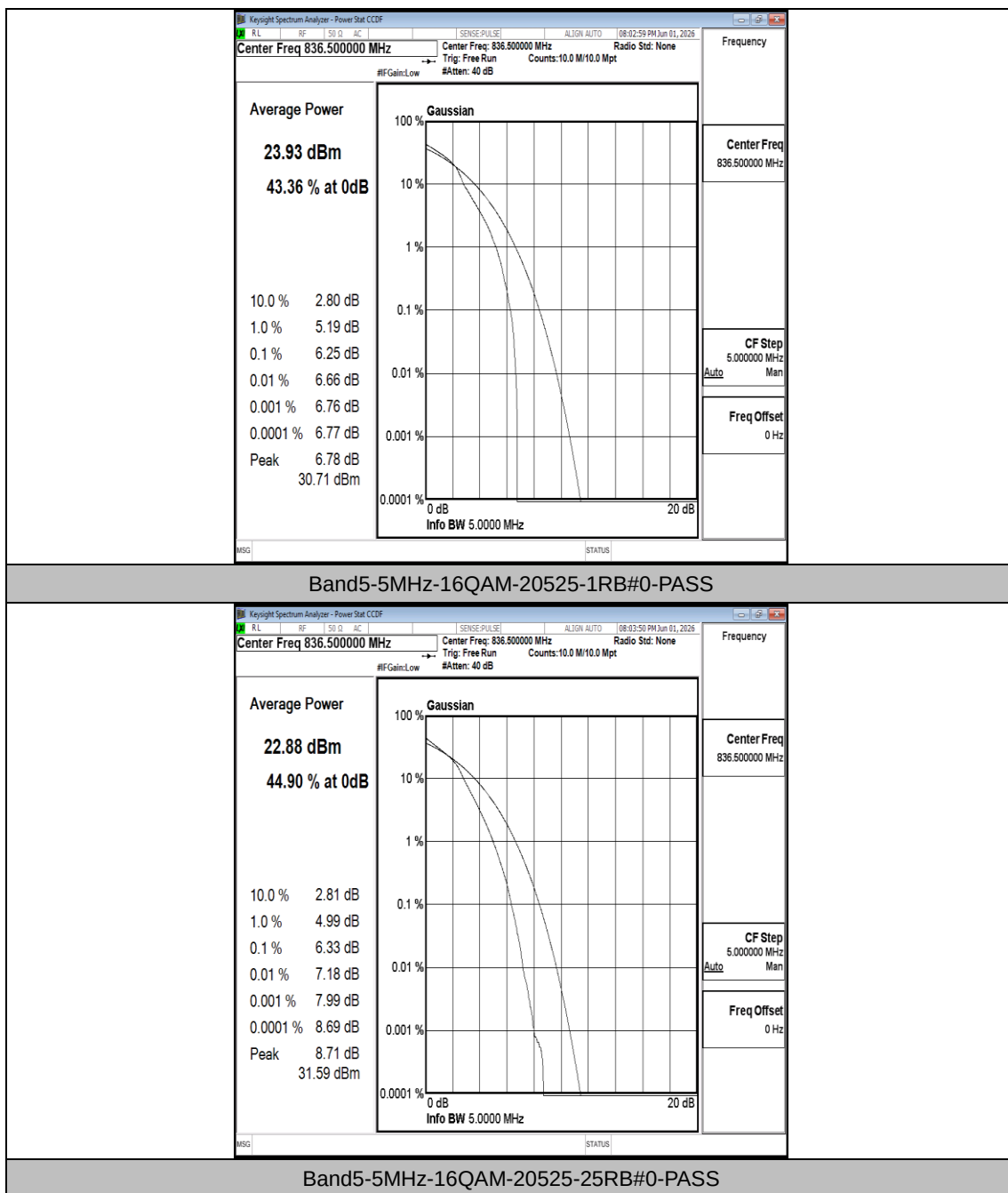


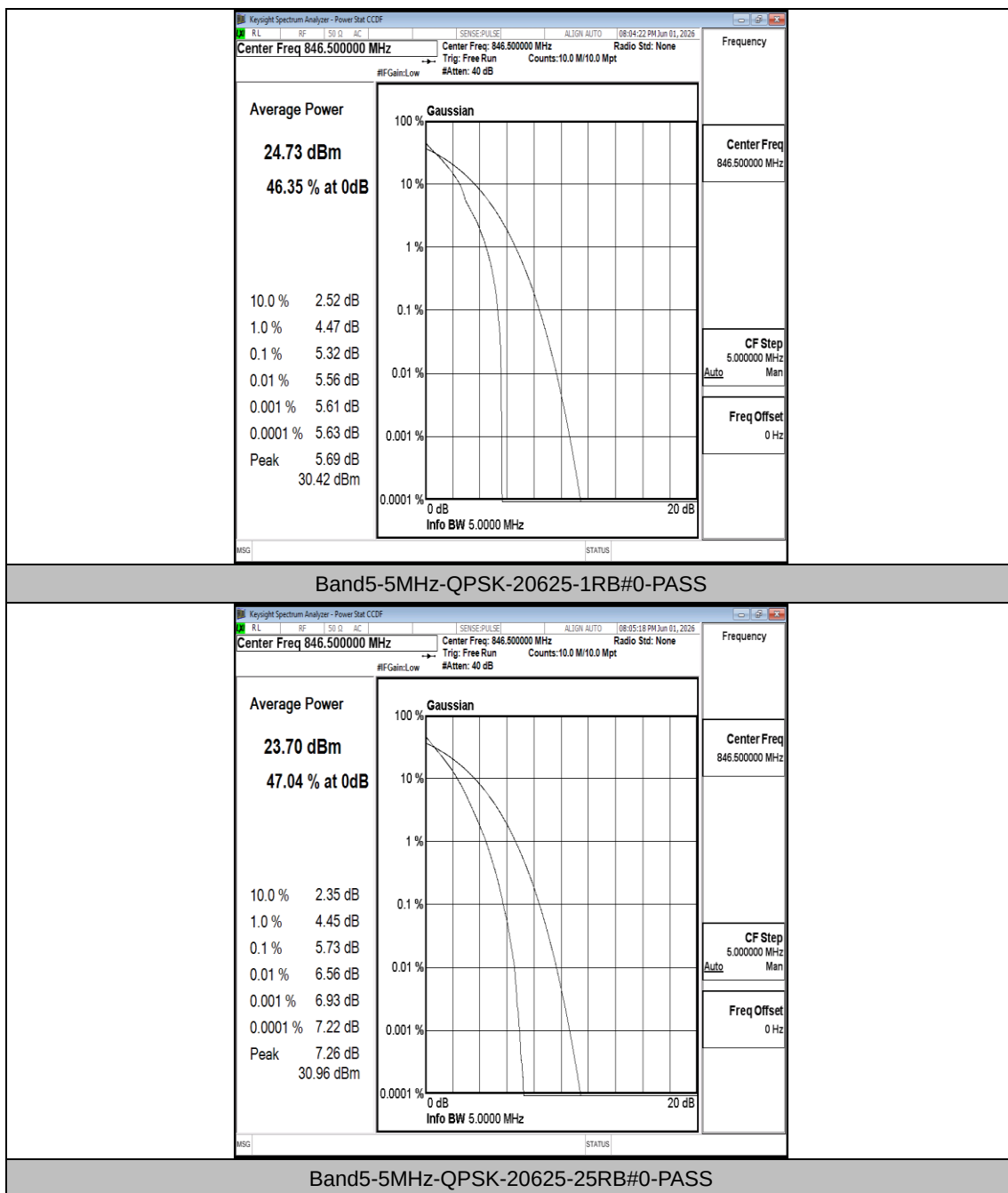


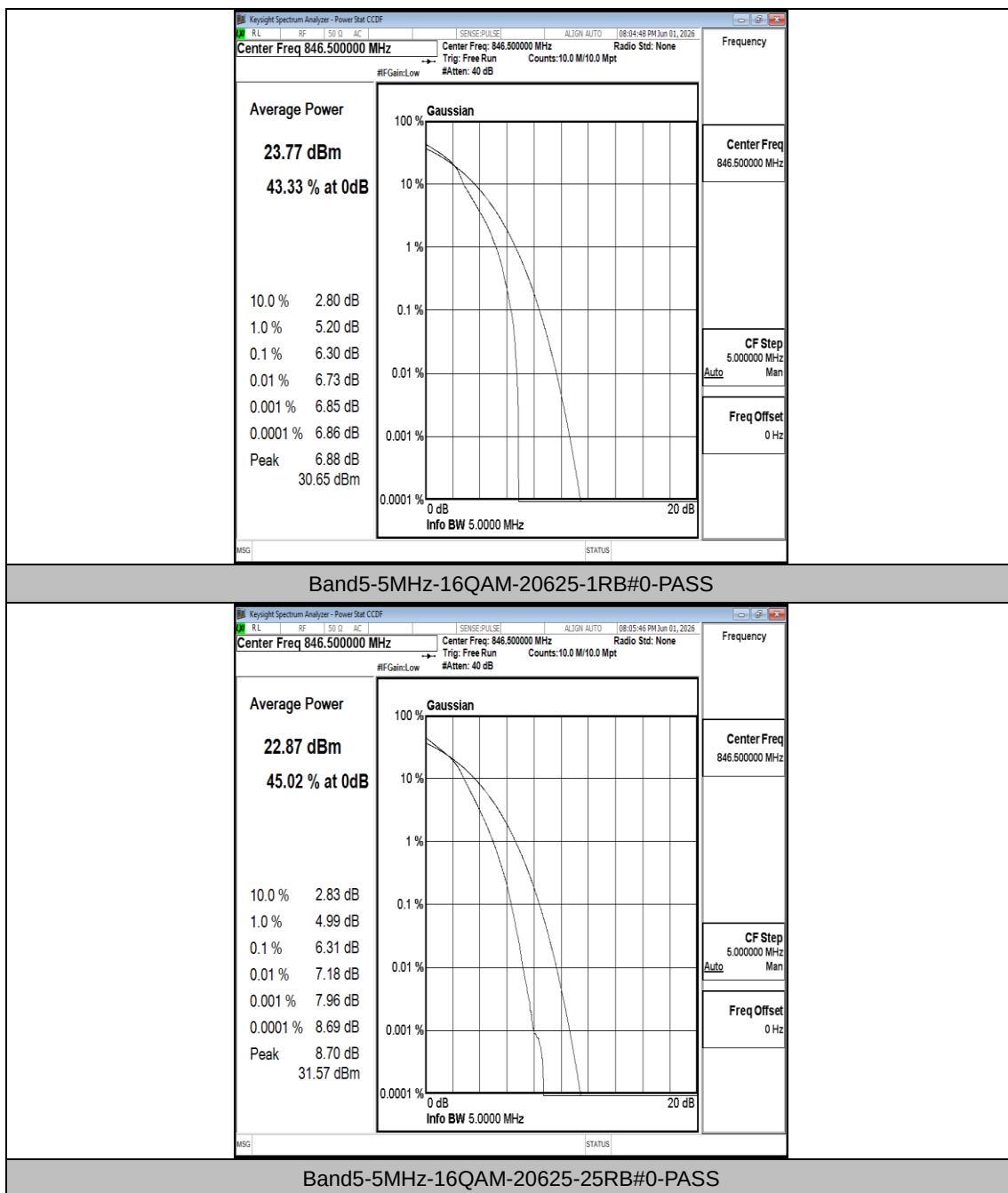


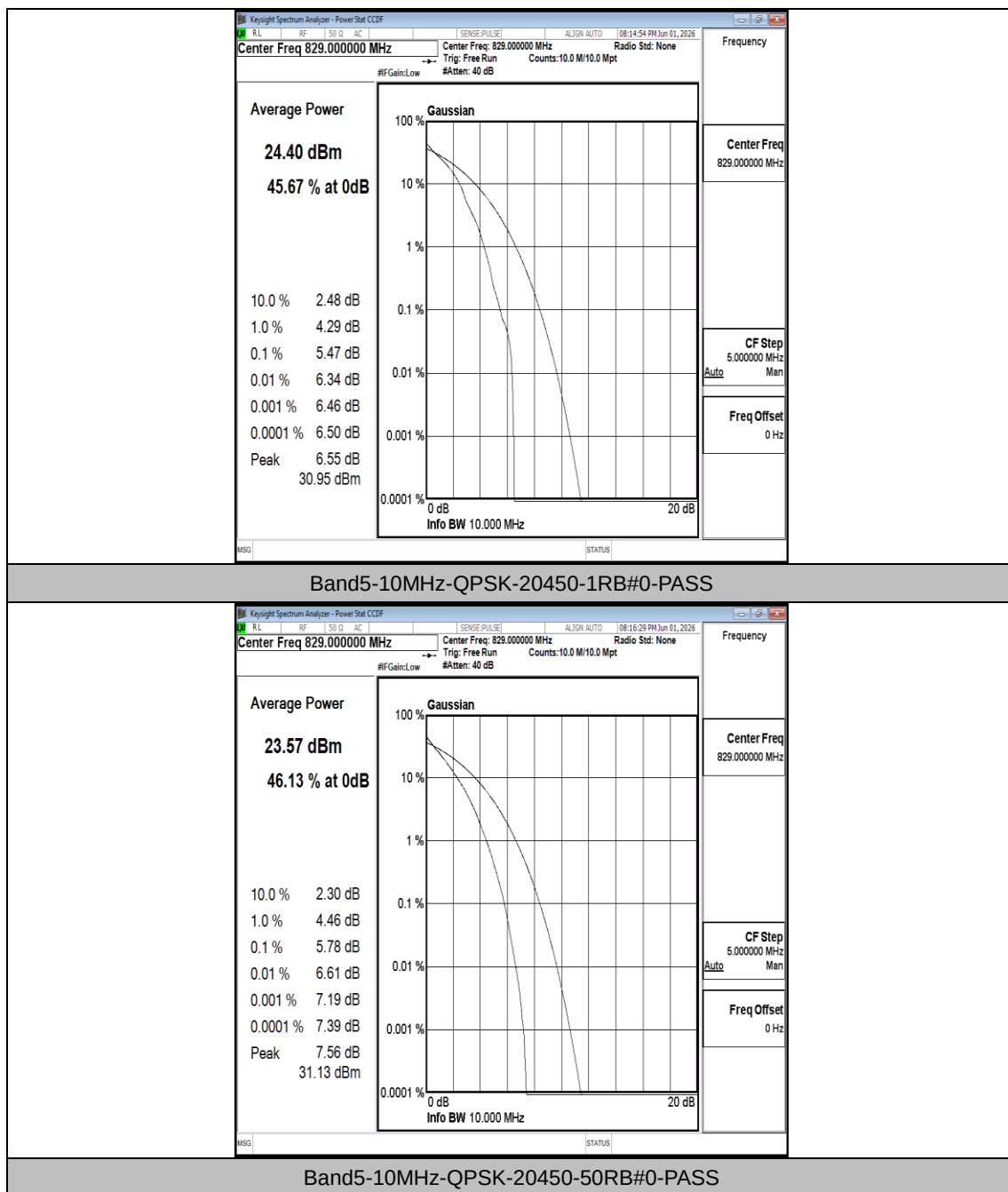


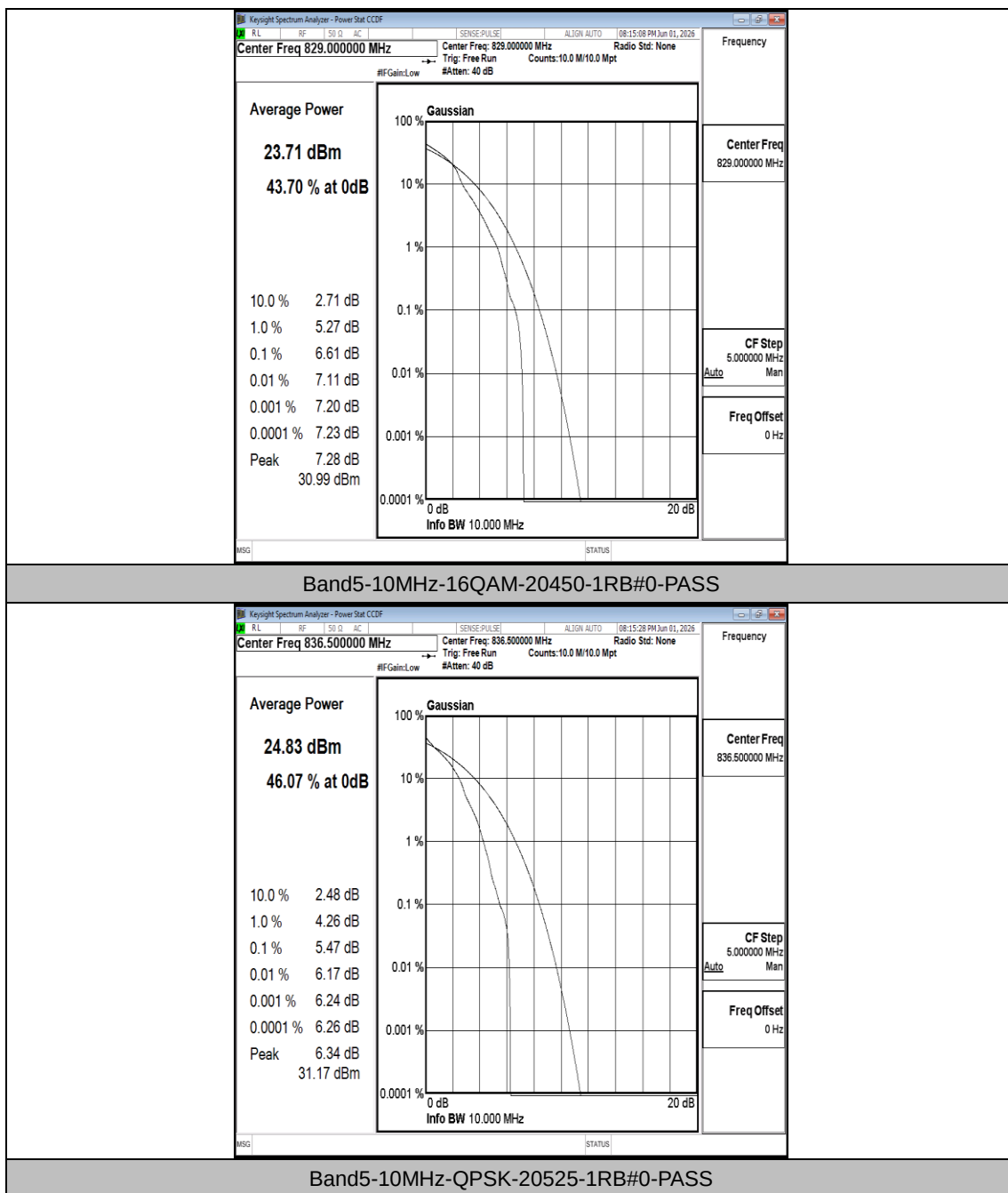


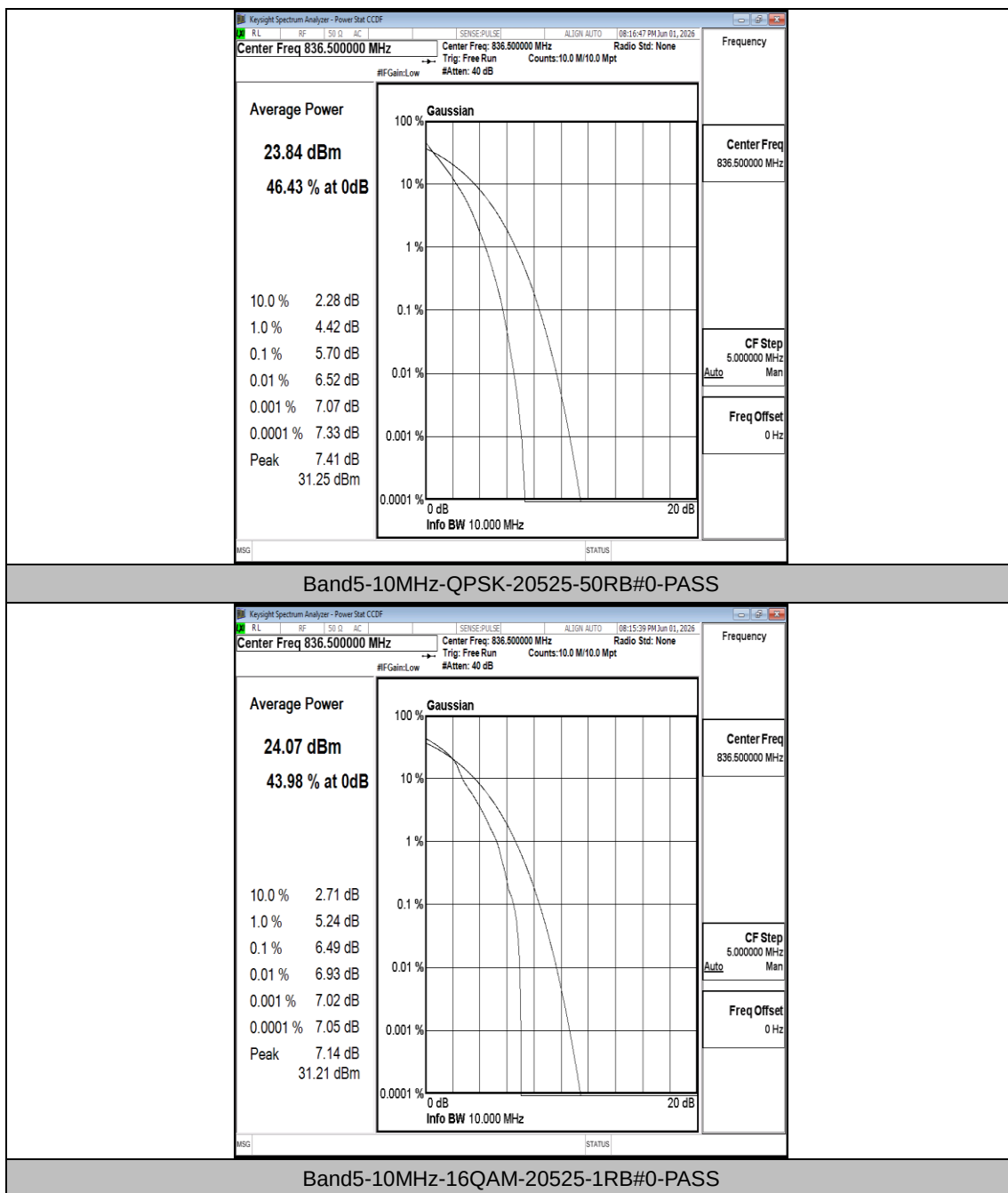


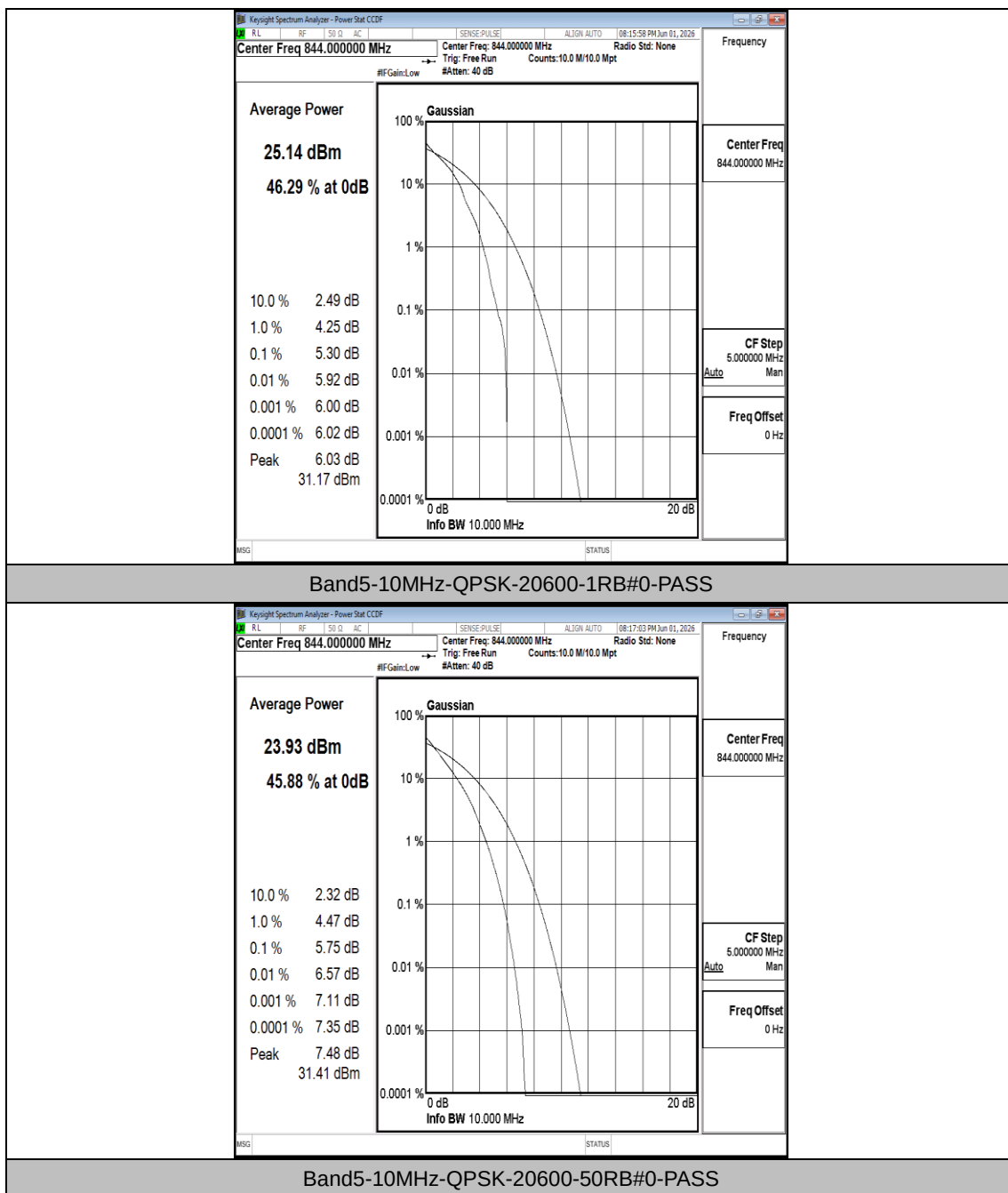


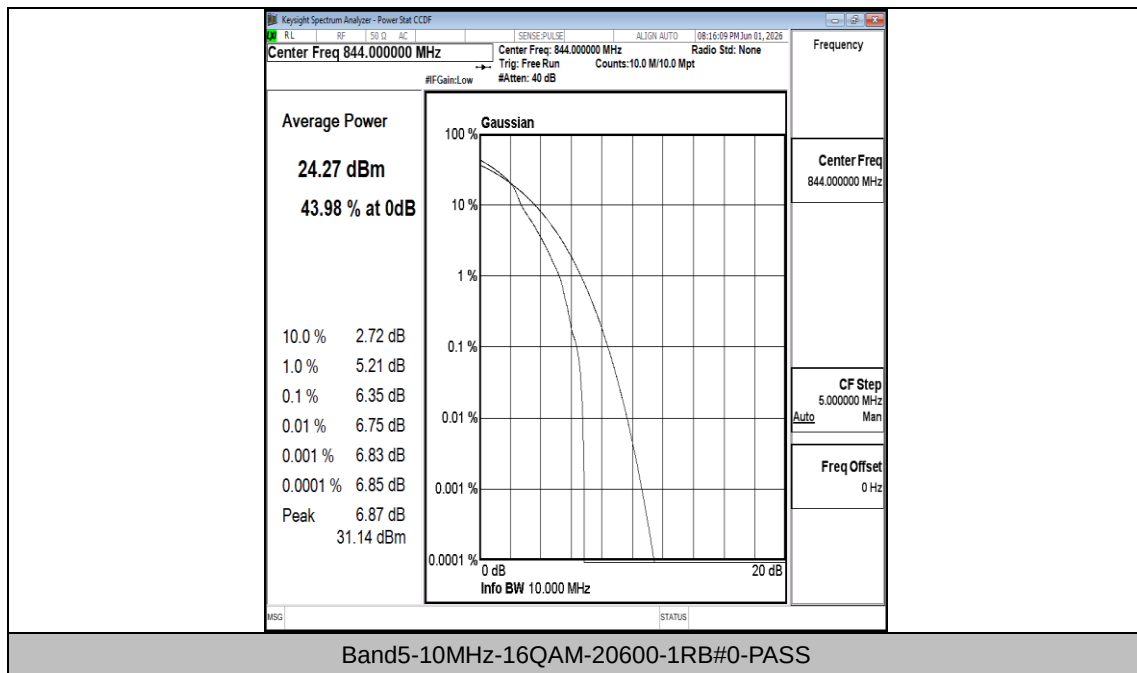










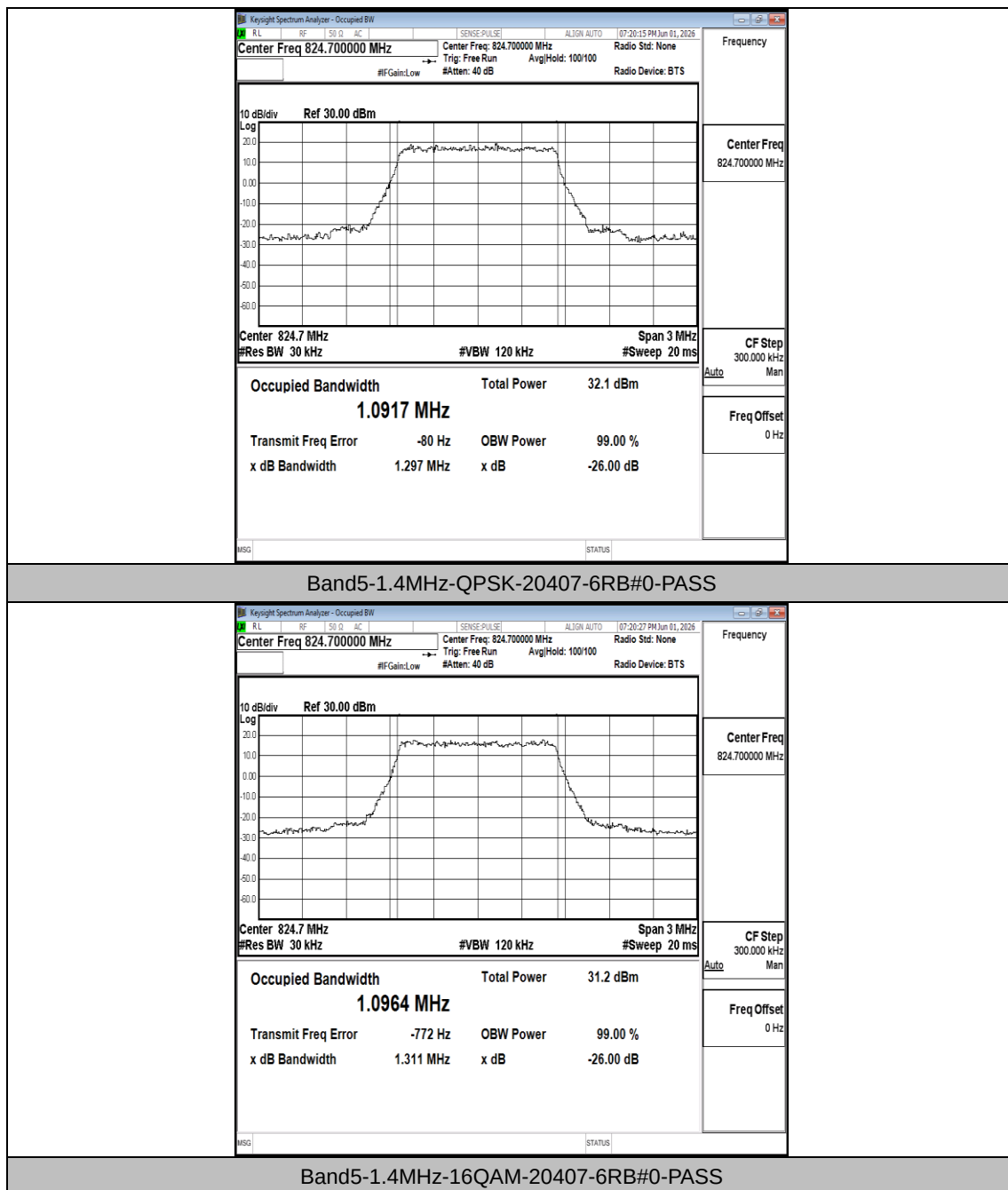


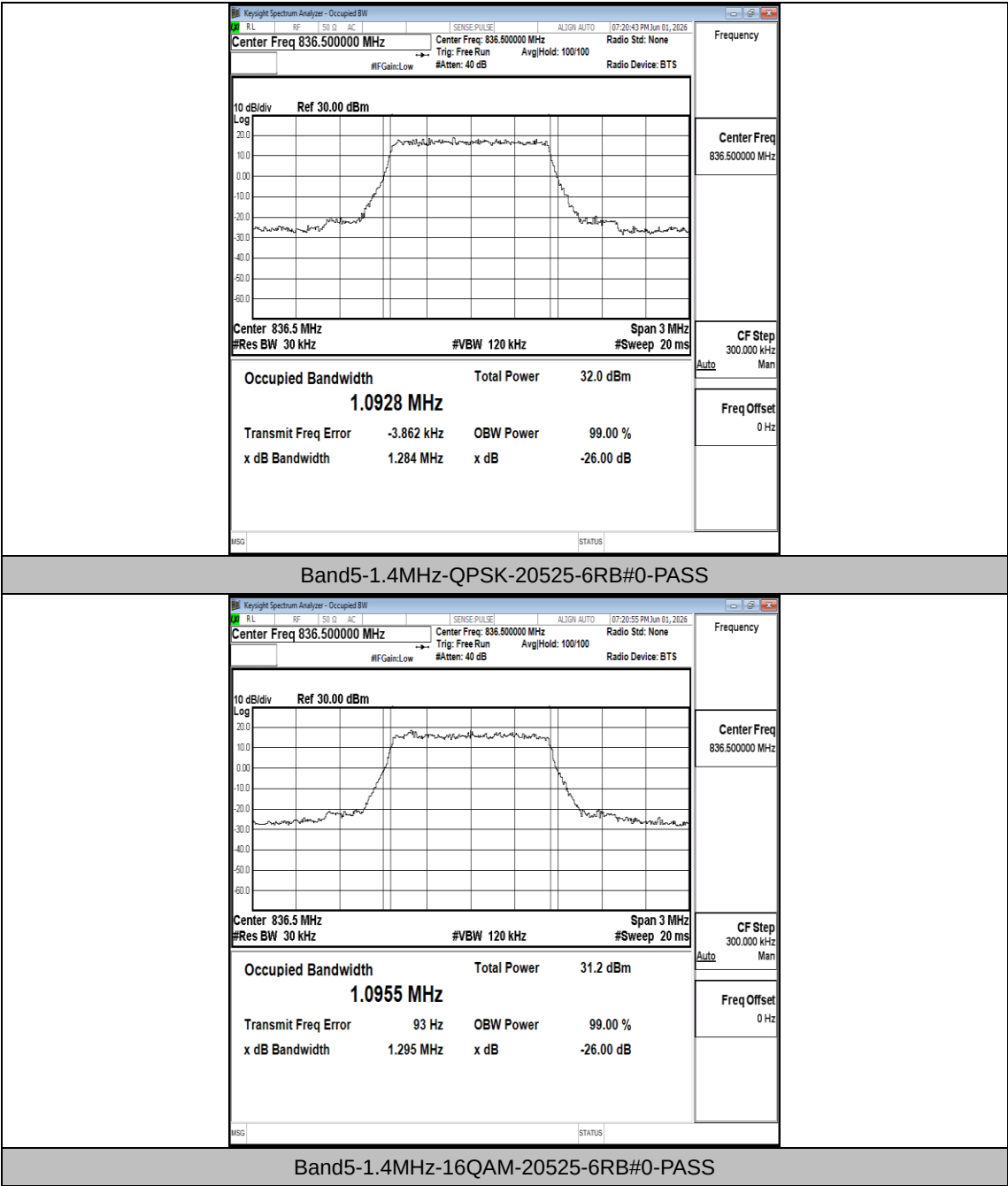
D.3 26dB Bandwidth and Occupied Bandwidth

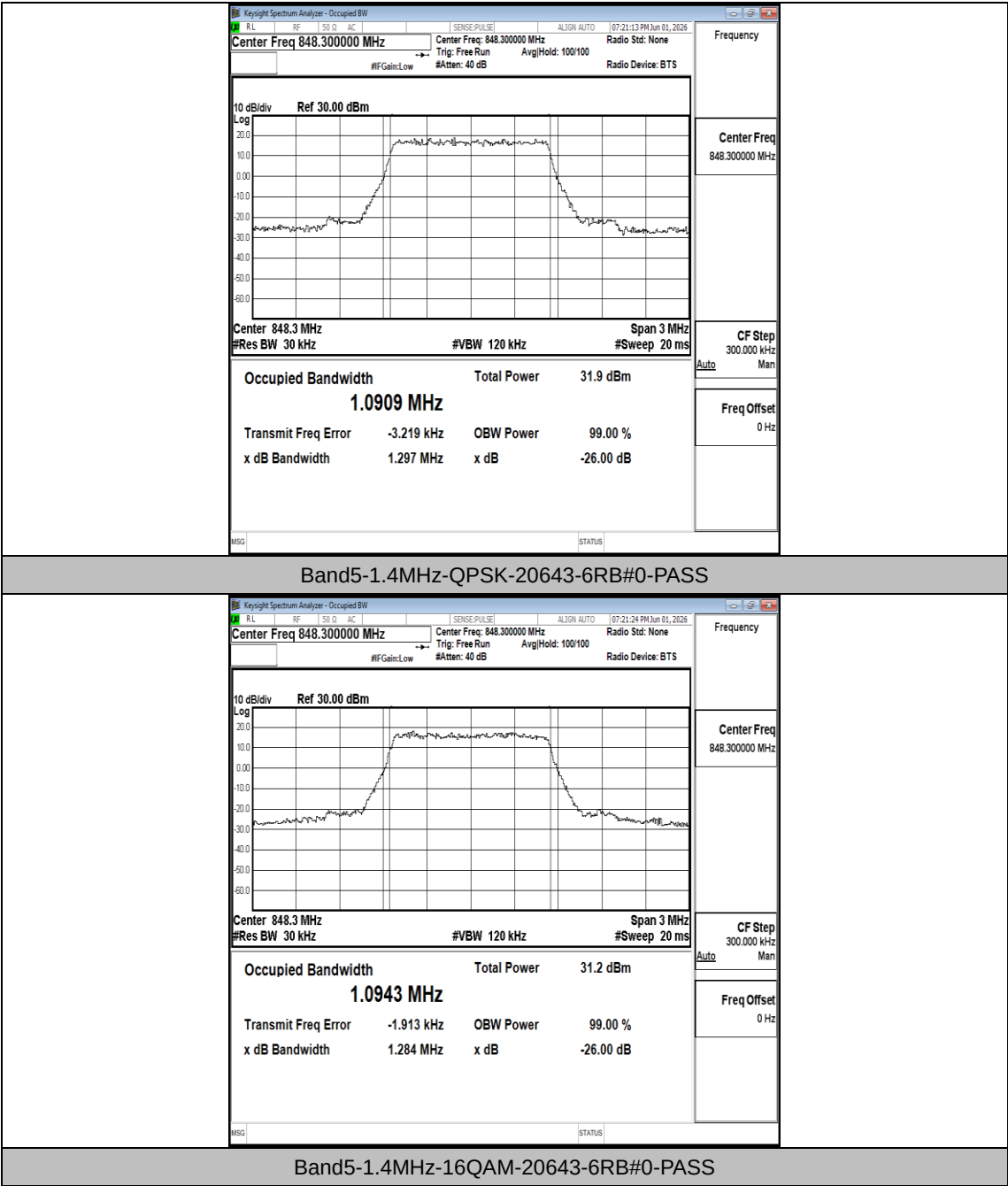
Test Result

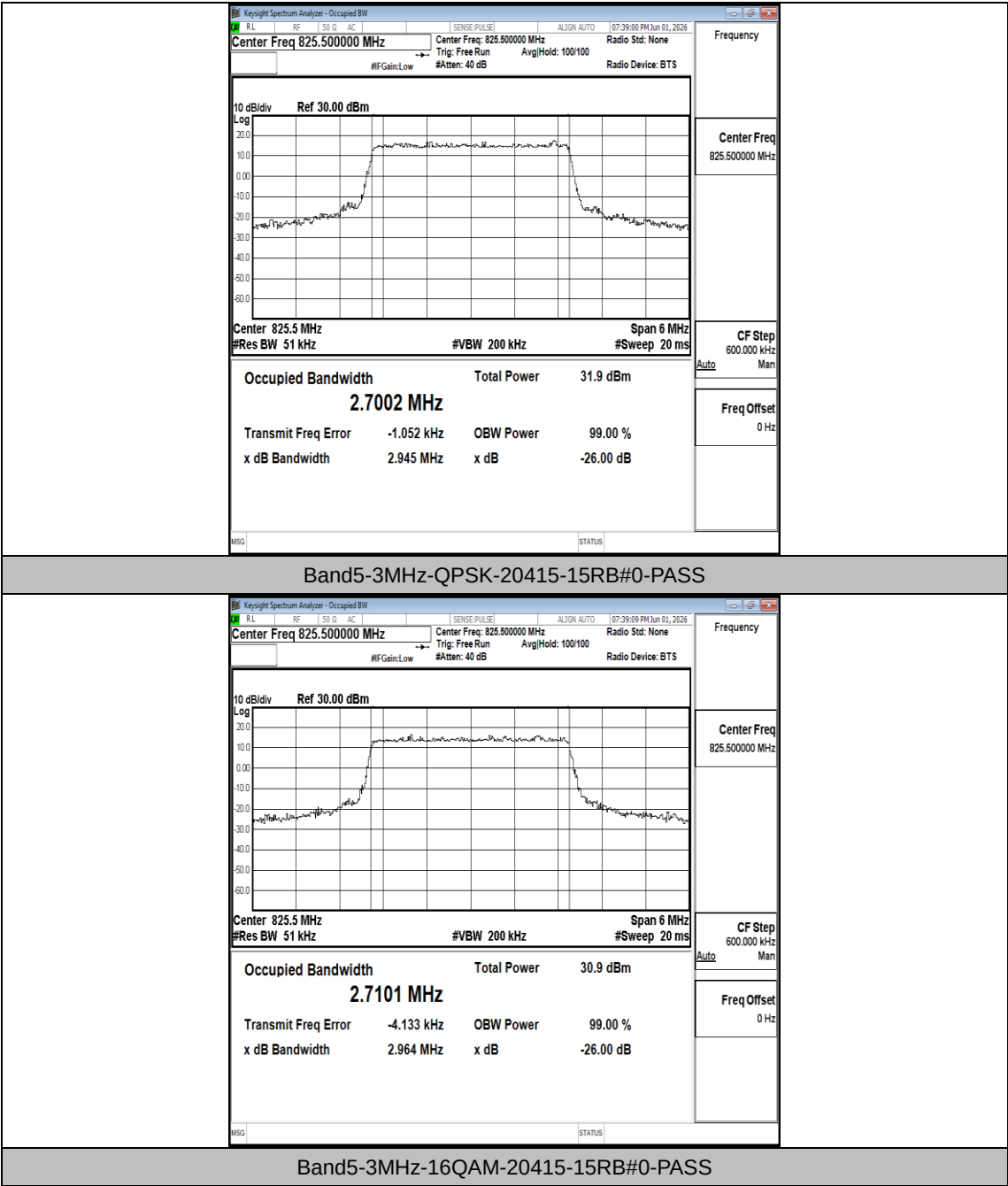
Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band5	1.4MHz	QPSK	20407	6RB#0	1.0917	1.297	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	1.0964	1.311	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	1.0928	1.284	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	1.0955	1.295	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	1.0909	1.297	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	1.0943	1.284	PASS
Band5	3MHz	QPSK	20415	15RB#0	2.7002	2.945	PASS
Band5	3MHz	16QAM	20415	15RB#0	2.7101	2.964	PASS
Band5	3MHz	QPSK	20525	15RB#0	2.7010	2.962	PASS
Band5	3MHz	16QAM	20525	15RB#0	2.7097	2.954	PASS
Band5	3MHz	QPSK	20635	15RB#0	2.6947	2.967	PASS
Band5	3MHz	16QAM	20635	15RB#0	2.7049	2.965	PASS
Band5	5MHz	QPSK	20425	25RB#0	4.5128	5.019	PASS
Band5	5MHz	16QAM	20425	25RB#0	4.4953	4.962	PASS
Band5	5MHz	QPSK	20525	25RB#0	4.5078	5.001	PASS
Band5	5MHz	16QAM	20525	25RB#0	4.4944	5.005	PASS
Band5	5MHz	QPSK	20625	25RB#0	4.5046	5.039	PASS
Band5	5MHz	16QAM	20625	25RB#0	4.4952	4.976	PASS
Band5	10MHz	QPSK	20450	50RB#0	8.9914	10.29	PASS
Band5	10MHz	16QAM	20450	27RB#0	5.0037	6.128	PASS
Band5	10MHz	QPSK	20525	50RB#0	8.9875	10.22	PASS
Band5	10MHz	16QAM	20525	27RB#0	5.0141	6.138	PASS
Band5	10MHz	QPSK	20600	50RB#0	9.0000	10.15	PASS
Band5	10MHz	16QAM	20600	27RB#0	4.9836	6.064	PASS

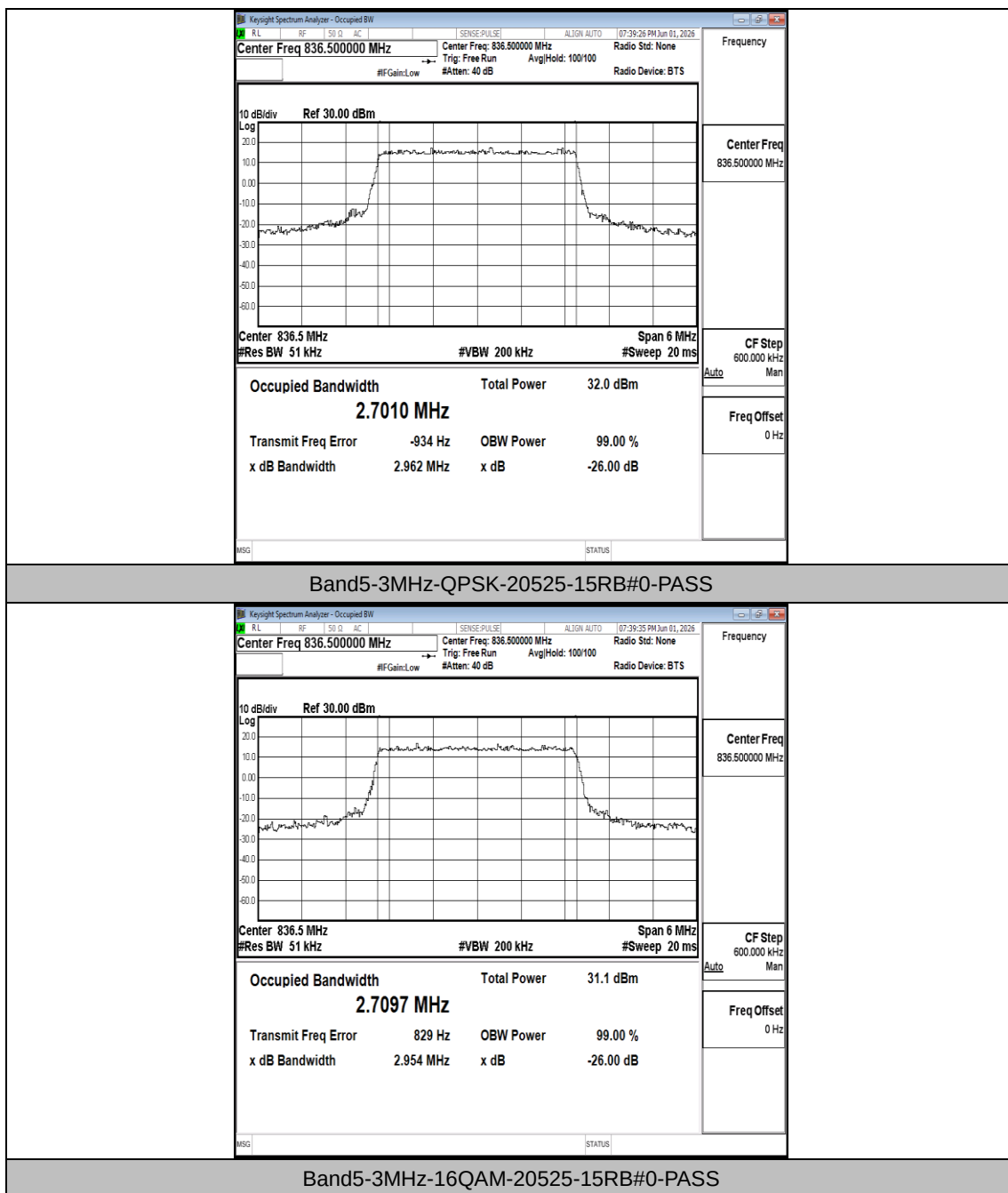
Test Graphs



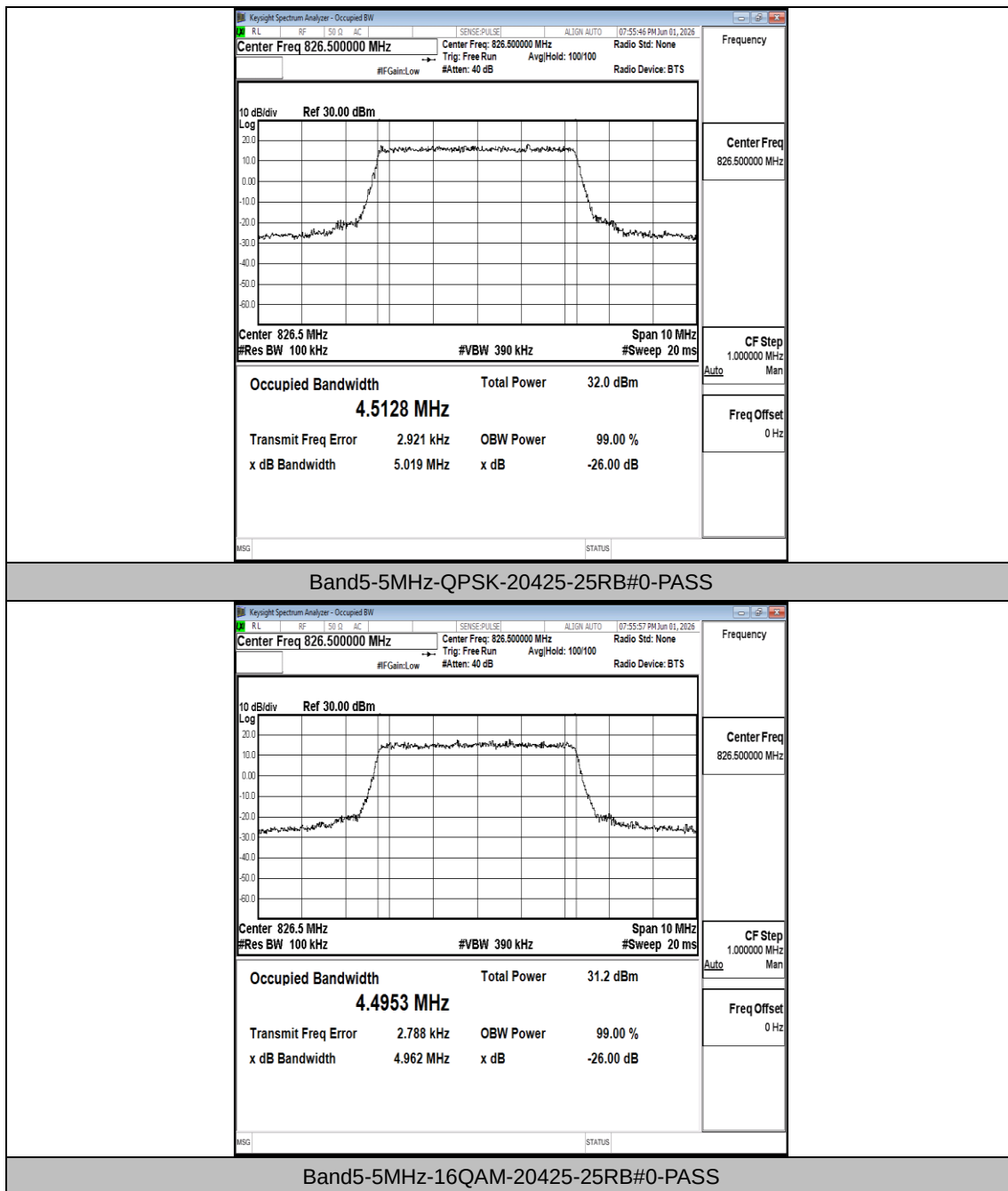


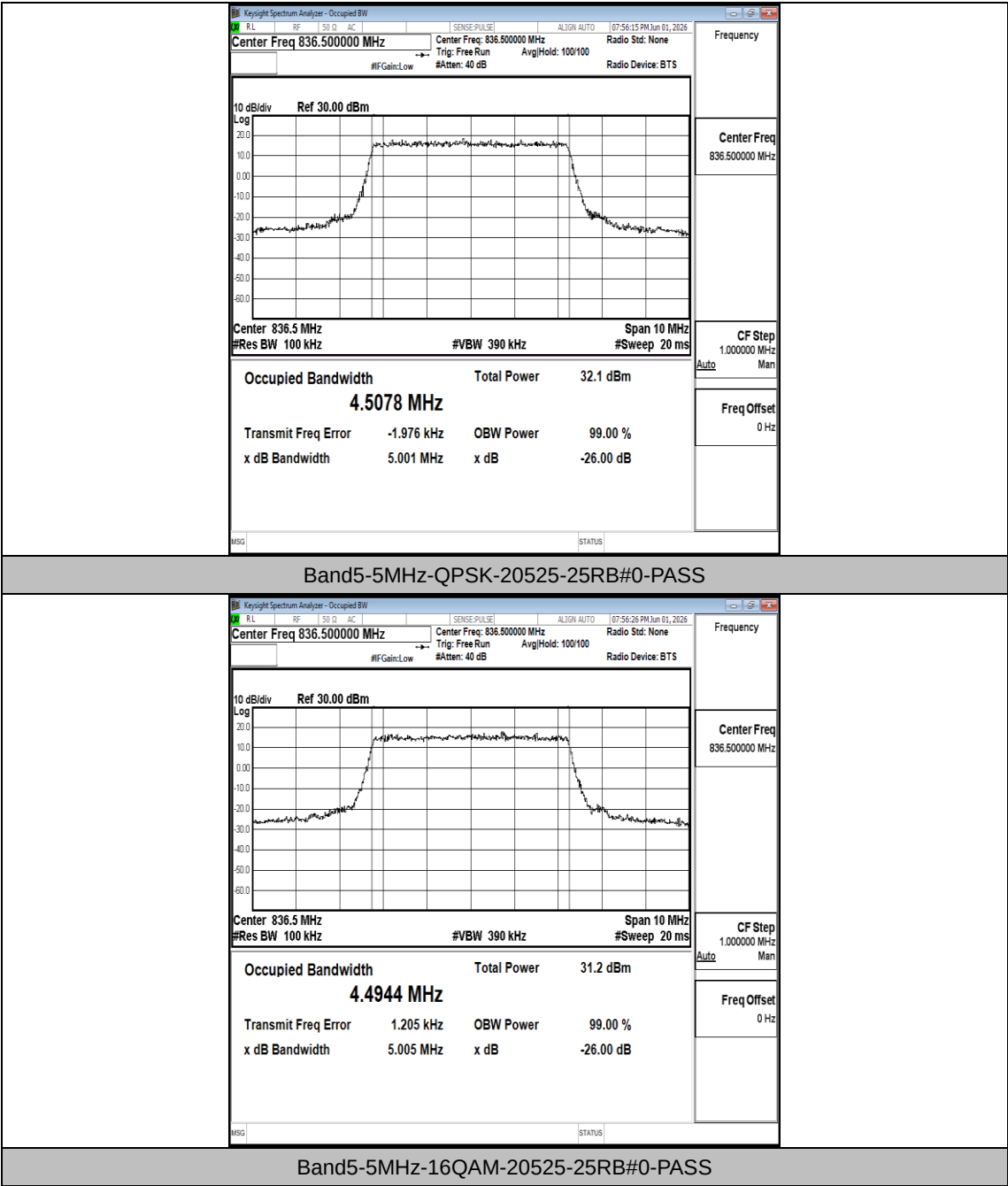


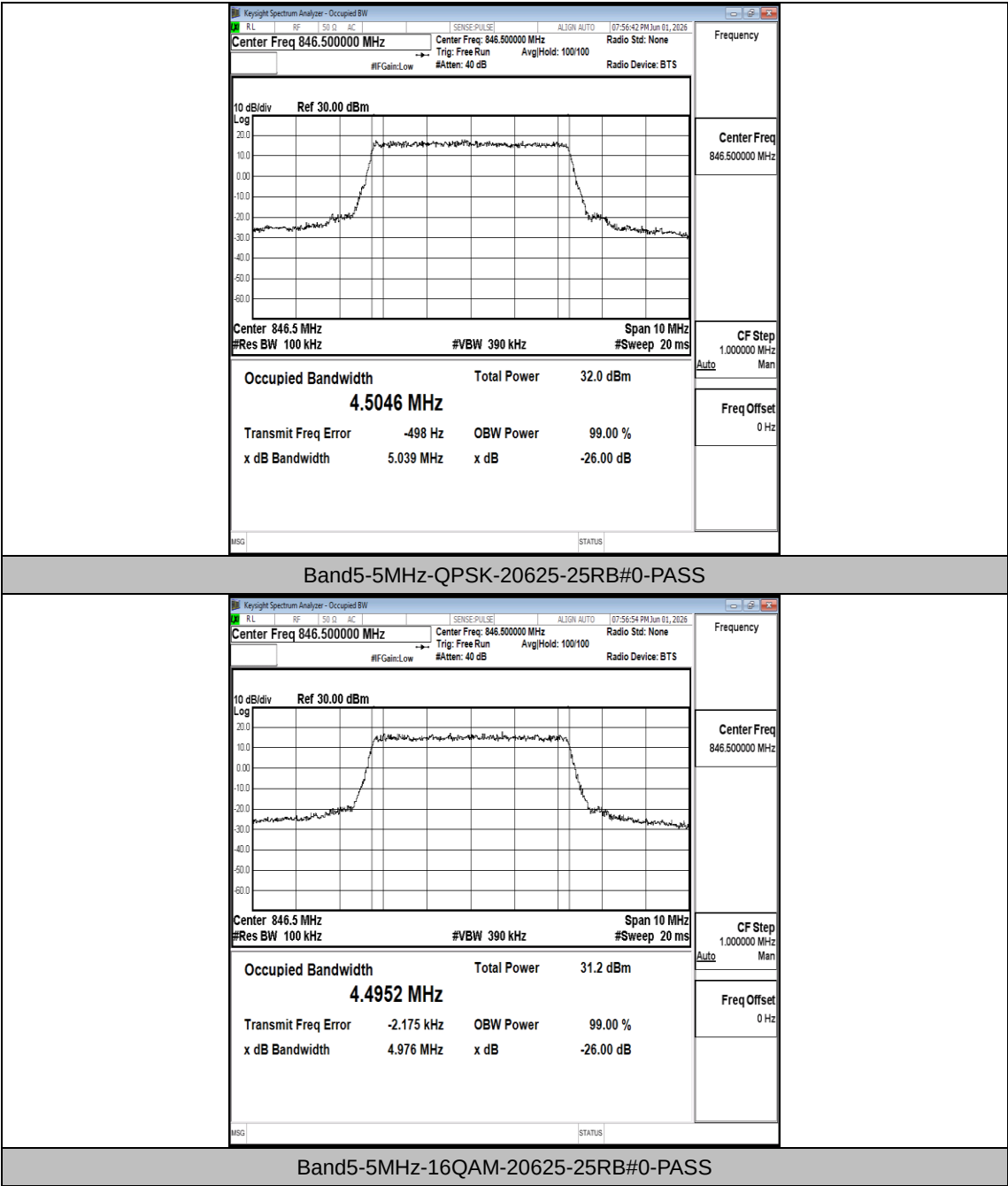






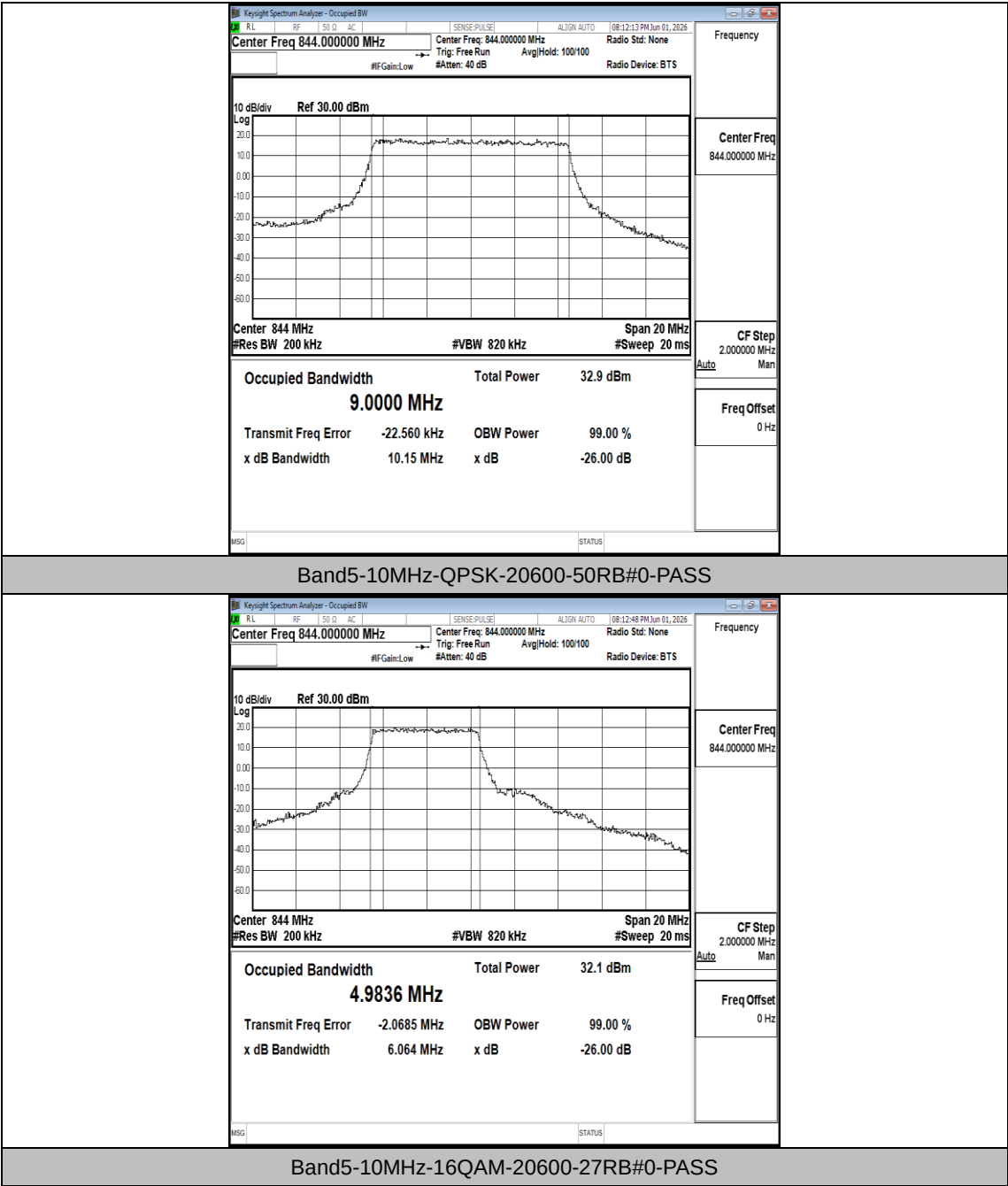












D.4 Band Edge

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Margin (dB)	Verdict
Band5	1.4MHz	QPSK	20407	6RB#0	-29.80	16.80	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	-27.95	14.95	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	-29.55	16.55	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	-26.88	13.88	PASS
Band5	3MHz	QPSK	20415	15RB#0	-30.41	17.41	PASS
Band5	3MHz	16QAM	20415	15RB#0	-31.35	18.35	PASS
Band5	3MHz	QPSK	20635	15RB#0	-31.49	18.49	PASS
Band5	3MHz	16QAM	20635	15RB#0	-32.21	19.21	PASS
Band5	5MHz	QPSK	20425	25RB#0	-33.31	20.31	PASS
Band5	5MHz	16QAM	20425	25RB#0	-33.10	20.10	PASS
Band5	5MHz	QPSK	20625	25RB#0	-32.88	19.88	PASS
Band5	5MHz	16QAM	20625	25RB#0	-33.47	20.47	PASS
Band5	10MHz	QPSK	20450	27RB#0	-33.83	20.83	PASS
Band5	10MHz	16QAM	20450	27RB#0	-33.53	20.53	PASS
Band5	10MHz	QPSK	20600	27RB#0	-39.69	26.69	PASS
Band5	10MHz	16QAM	20600	27RB#0	-42.60	29.60	PASS

Test Graphs

