

Appendix J: Test Data for E-UTRA Band 12

Product Name: GNSS Receiver

Test Model: Xbase

Environmental Conditions

Temperature:	24.3°C
Relative Humidity:	56.4%
ATM Pressure:	100.0 kPa
Test Engineer:	Zhang hai
Supervised by:	Fengliu Tang

F.1 Conducted Output Power Data

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band12	1.4MHz	QPSK	23017	1RB#0	24.65	PASS
Band12	1.4MHz	QPSK	23017	1RB#2	24.79	PASS
Band12	1.4MHz	QPSK	23017	1RB#5	24.70	PASS
Band12	1.4MHz	QPSK	23017	3RB#0	24.72	PASS
Band12	1.4MHz	QPSK	23017	3RB#1	24.74	PASS
Band12	1.4MHz	QPSK	23017	3RB#3	24.78	PASS
Band12	1.4MHz	QPSK	23017	6RB#0	23.61	PASS
Band12	1.4MHz	16QAM	23017	1RB#0	23.52	PASS
Band12	1.4MHz	16QAM	23017	1RB#2	24.10	PASS
Band12	1.4MHz	16QAM	23017	1RB#5	23.54	PASS
Band12	1.4MHz	16QAM	23017	3RB#0	23.59	PASS
Band12	1.4MHz	16QAM	23017	3RB#1	23.79	PASS
Band12	1.4MHz	16QAM	23017	3RB#3	23.58	PASS
Band12	1.4MHz	16QAM	23017	6RB#0	22.75	PASS
Band12	1.4MHz	QPSK	23095	1RB#0	24.62	PASS
Band12	1.4MHz	QPSK	23095	1RB#2	24.71	PASS
Band12	1.4MHz	QPSK	23095	1RB#5	24.59	PASS
Band12	1.4MHz	QPSK	23095	3RB#0	24.67	PASS
Band12	1.4MHz	QPSK	23095	3RB#1	24.67	PASS
Band12	1.4MHz	QPSK	23095	3RB#3	24.70	PASS
Band12	1.4MHz	QPSK	23095	6RB#0	23.64	PASS
Band12	1.4MHz	16QAM	23095	1RB#0	23.71	PASS
Band12	1.4MHz	16QAM	23095	1RB#2	24.13	PASS
Band12	1.4MHz	16QAM	23095	1RB#5	23.67	PASS
Band12	1.4MHz	16QAM	23095	3RB#0	23.59	PASS
Band12	1.4MHz	16QAM	23095	3RB#1	23.63	PASS
Band12	1.4MHz	16QAM	23095	3RB#3	23.55	PASS
Band12	1.4MHz	16QAM	23095	6RB#0	22.53	PASS
Band12	1.4MHz	QPSK	23173	1RB#0	24.51	PASS
Band12	1.4MHz	QPSK	23173	1RB#2	24.67	PASS
Band12	1.4MHz	QPSK	23173	1RB#5	24.53	PASS
Band12	1.4MHz	QPSK	23173	3RB#0	24.66	PASS
Band12	1.4MHz	QPSK	23173	3RB#1	24.62	PASS
Band12	1.4MHz	QPSK	23173	3RB#3	24.65	PASS
Band12	1.4MHz	QPSK	23173	6RB#0	23.62	PASS
Band12	1.4MHz	16QAM	23173	1RB#0	23.70	PASS
Band12	1.4MHz	16QAM	23173	1RB#2	24.06	PASS
Band12	1.4MHz	16QAM	23173	1RB#5	23.65	PASS

Band12	1.4MHz	16QAM	23173	3RB#0	23.54	PASS
Band12	1.4MHz	16QAM	23173	3RB#1	23.62	PASS
Band12	1.4MHz	16QAM	23173	3RB#3	23.52	PASS
Band12	1.4MHz	16QAM	23173	6RB#0	22.51	PASS
Band12	3MHz	QPSK	23025	1RB#0	24.68	PASS
Band12	3MHz	QPSK	23025	1RB#8	24.67	PASS
Band12	3MHz	QPSK	23025	1RB#14	24.63	PASS
Band12	3MHz	QPSK	23025	8RB#0	23.64	PASS
Band12	3MHz	QPSK	23025	8RB#4	23.66	PASS
Band12	3MHz	QPSK	23025	8RB#7	23.69	PASS
Band12	3MHz	QPSK	23025	15RB#0	23.63	PASS
Band12	3MHz	16QAM	23025	1RB#0	23.87	PASS
Band12	3MHz	16QAM	23025	1RB#8	24.10	PASS
Band12	3MHz	16QAM	23025	1RB#14	23.77	PASS
Band12	3MHz	16QAM	23025	8RB#0	22.67	PASS
Band12	3MHz	16QAM	23025	8RB#4	22.73	PASS
Band12	3MHz	16QAM	23025	8RB#7	22.69	PASS
Band12	3MHz	16QAM	23025	15RB#0	22.65	PASS
Band12	3MHz	QPSK	23095	1RB#0	24.60	PASS
Band12	3MHz	QPSK	23095	1RB#8	24.60	PASS
Band12	3MHz	QPSK	23095	1RB#14	24.58	PASS
Band12	3MHz	QPSK	23095	8RB#0	23.63	PASS
Band12	3MHz	QPSK	23095	8RB#4	23.60	PASS
Band12	3MHz	QPSK	23095	8RB#7	23.55	PASS
Band12	3MHz	QPSK	23095	15RB#0	23.57	PASS
Band12	3MHz	16QAM	23095	1RB#0	23.53	PASS
Band12	3MHz	16QAM	23095	1RB#8	23.86	PASS
Band12	3MHz	16QAM	23095	1RB#14	23.47	PASS
Band12	3MHz	16QAM	23095	8RB#0	22.67	PASS
Band12	3MHz	16QAM	23095	8RB#4	22.58	PASS
Band12	3MHz	16QAM	23095	8RB#7	22.68	PASS
Band12	3MHz	16QAM	23095	15RB#0	22.53	PASS
Band12	3MHz	QPSK	23165	1RB#0	24.55	PASS
Band12	3MHz	QPSK	23165	1RB#8	24.54	PASS
Band12	3MHz	QPSK	23165	1RB#14	24.50	PASS
Band12	3MHz	QPSK	23165	8RB#0	23.57	PASS
Band12	3MHz	QPSK	23165	8RB#4	23.60	PASS
Band12	3MHz	QPSK	23165	8RB#7	23.59	PASS
Band12	3MHz	QPSK	23165	15RB#0	23.55	PASS
Band12	3MHz	16QAM	23165	1RB#0	23.76	PASS
Band12	3MHz	16QAM	23165	1RB#8	23.79	PASS
Band12	3MHz	16QAM	23165	1RB#14	23.63	PASS
Band12	3MHz	16QAM	23165	8RB#0	22.66	PASS
Band12	3MHz	16QAM	23165	8RB#4	22.70	PASS

Band12	3MHz	16QAM	23165	8RB#7	22.61	PASS
Band12	3MHz	16QAM	23165	15RB#0	22.59	PASS
Band12	5MHz	QPSK	23035	1RB#0	24.68	PASS
Band12	5MHz	QPSK	23035	1RB#12	25.16	PASS
Band12	5MHz	QPSK	23035	1RB#24	24.64	PASS
Band12	5MHz	QPSK	23035	12RB#0	23.66	PASS
Band12	5MHz	QPSK	23035	12RB#6	23.71	PASS
Band12	5MHz	QPSK	23035	12RB#13	23.71	PASS
Band12	5MHz	QPSK	23035	25RB#0	23.63	PASS
Band12	5MHz	16QAM	23035	1RB#0	23.86	PASS
Band12	5MHz	16QAM	23035	1RB#12	24.19	PASS
Band12	5MHz	16QAM	23035	1RB#24	23.78	PASS
Band12	5MHz	16QAM	23035	12RB#0	22.74	PASS
Band12	5MHz	16QAM	23035	12RB#6	22.82	PASS
Band12	5MHz	16QAM	23035	12RB#13	22.74	PASS
Band12	5MHz	16QAM	23035	25RB#0	22.70	PASS
Band12	5MHz	QPSK	23095	1RB#0	24.67	PASS
Band12	5MHz	QPSK	23095	1RB#12	24.90	PASS
Band12	5MHz	QPSK	23095	1RB#24	24.55	PASS
Band12	5MHz	QPSK	23095	12RB#0	23.65	PASS
Band12	5MHz	QPSK	23095	12RB#6	23.63	PASS
Band12	5MHz	QPSK	23095	12RB#13	23.60	PASS
Band12	5MHz	QPSK	23095	25RB#0	23.63	PASS
Band12	5MHz	16QAM	23095	1RB#0	23.62	PASS
Band12	5MHz	16QAM	23095	1RB#12	24.04	PASS
Band12	5MHz	16QAM	23095	1RB#24	23.58	PASS
Band12	5MHz	16QAM	23095	12RB#0	22.73	PASS
Band12	5MHz	16QAM	23095	12RB#6	22.70	PASS
Band12	5MHz	16QAM	23095	12RB#13	22.69	PASS
Band12	5MHz	16QAM	23095	25RB#0	22.76	PASS
Band12	5MHz	QPSK	23155	1RB#0	24.59	PASS
Band12	5MHz	QPSK	23155	1RB#12	24.86	PASS
Band12	5MHz	QPSK	23155	1RB#24	24.49	PASS
Band12	5MHz	QPSK	23155	12RB#0	23.62	PASS
Band12	5MHz	QPSK	23155	12RB#6	23.64	PASS
Band12	5MHz	QPSK	23155	12RB#13	23.54	PASS
Band12	5MHz	QPSK	23155	25RB#0	23.60	PASS
Band12	5MHz	16QAM	23155	1RB#0	23.51	PASS
Band12	5MHz	16QAM	23155	1RB#12	24.10	PASS
Band12	5MHz	16QAM	23155	1RB#24	23.46	PASS
Band12	5MHz	16QAM	23155	12RB#0	22.66	PASS
Band12	5MHz	16QAM	23155	12RB#6	22.70	PASS
Band12	5MHz	16QAM	23155	12RB#13	22.60	PASS
Band12	5MHz	16QAM	23155	25RB#0	22.67	PASS

Band12	10MHz	QPSK	23060	1RB#0	24.62	PASS
Band12	10MHz	QPSK	23060	1RB#24	24.77	PASS
Band12	10MHz	QPSK	23060	1RB#49	24.55	PASS
Band12	10MHz	QPSK	23060	25RB#0	23.72	PASS
Band12	10MHz	QPSK	23060	25RB#12	23.71	PASS
Band12	10MHz	QPSK	23060	25RB#25	23.72	PASS
Band12	10MHz	QPSK	23060	50RB#0	23.67	PASS
Band12	10MHz	16QAM	23060	1RB#0	23.83	PASS
Band12	10MHz	16QAM	23060	1RB#24	24.18	PASS
Band12	10MHz	16QAM	23060	1RB#49	23.73	PASS
Band12	10MHz	16QAM	23060	25RB#0	22.76	PASS
Band12	10MHz	16QAM	23060	25RB#12	22.76	PASS
Band12	10MHz	16QAM	23060	25RB#25	22.76	PASS
Band12	10MHz	16QAM	23060	50RB#0	22.71	PASS
Band12	10MHz	QPSK	23095	1RB#0	24.71	PASS
Band12	10MHz	QPSK	23095	1RB#24	24.77	PASS
Band12	10MHz	QPSK	23095	1RB#49	24.56	PASS
Band12	10MHz	QPSK	23095	25RB#0	23.68	PASS
Band12	10MHz	QPSK	23095	25RB#12	23.63	PASS
Band12	10MHz	QPSK	23095	25RB#25	23.58	PASS
Band12	10MHz	QPSK	23095	50RB#0	23.62	PASS
Band12	10MHz	16QAM	23095	1RB#0	23.55	PASS
Band12	10MHz	16QAM	23095	1RB#24	24.03	PASS
Band12	10MHz	16QAM	23095	1RB#49	23.49	PASS
Band12	10MHz	16QAM	23095	25RB#0	22.78	PASS
Band12	10MHz	16QAM	23095	25RB#12	22.70	PASS
Band12	10MHz	16QAM	23095	25RB#25	22.68	PASS
Band12	10MHz	16QAM	23095	50RB#0	22.72	PASS
Band12	10MHz	QPSK	23130	1RB#0	24.59	PASS
Band12	10MHz	QPSK	23130	1RB#24	24.75	PASS
Band12	10MHz	QPSK	23130	1RB#49	24.53	PASS
Band12	10MHz	QPSK	23130	25RB#0	23.68	PASS
Band12	10MHz	QPSK	23130	25RB#12	23.61	PASS
Band12	10MHz	QPSK	23130	25RB#25	23.52	PASS
Band12	10MHz	QPSK	23130	50RB#0	23.62	PASS
Band12	10MHz	16QAM	23130	1RB#0	23.74	PASS
Band12	10MHz	16QAM	23130	1RB#24	24.03	PASS
Band12	10MHz	16QAM	23130	1RB#49	23.64	PASS
Band12	10MHz	16QAM	23130	25RB#0	22.71	PASS
Band12	10MHz	16QAM	23130	25RB#12	22.70	PASS
Band12	10MHz	16QAM	23130	25RB#25	22.54	PASS
Band12	10MHz	16QAM	23130	50RB#0	22.63	PASS

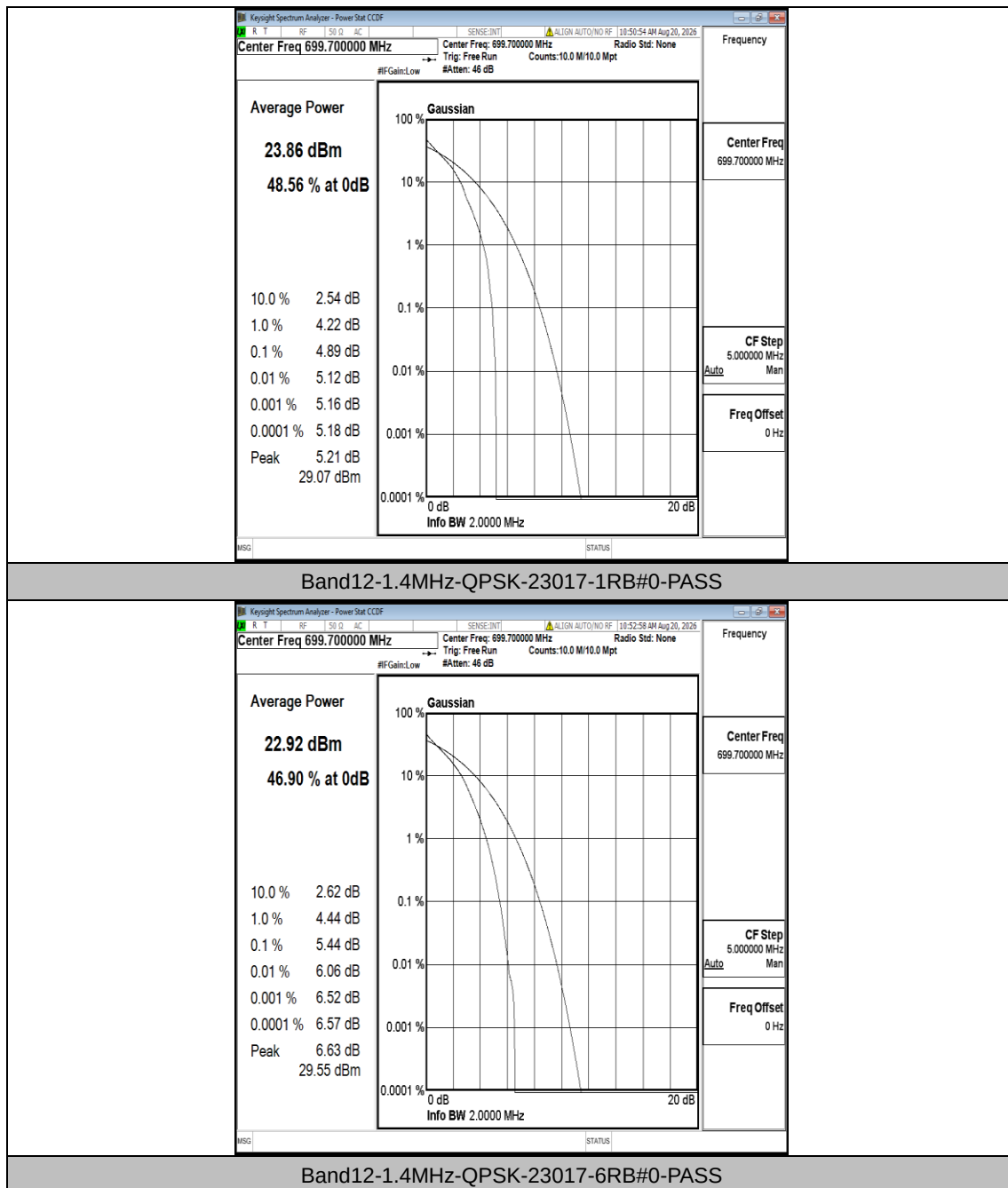
F.2 Peak-to-Average Ratio(CCDF)

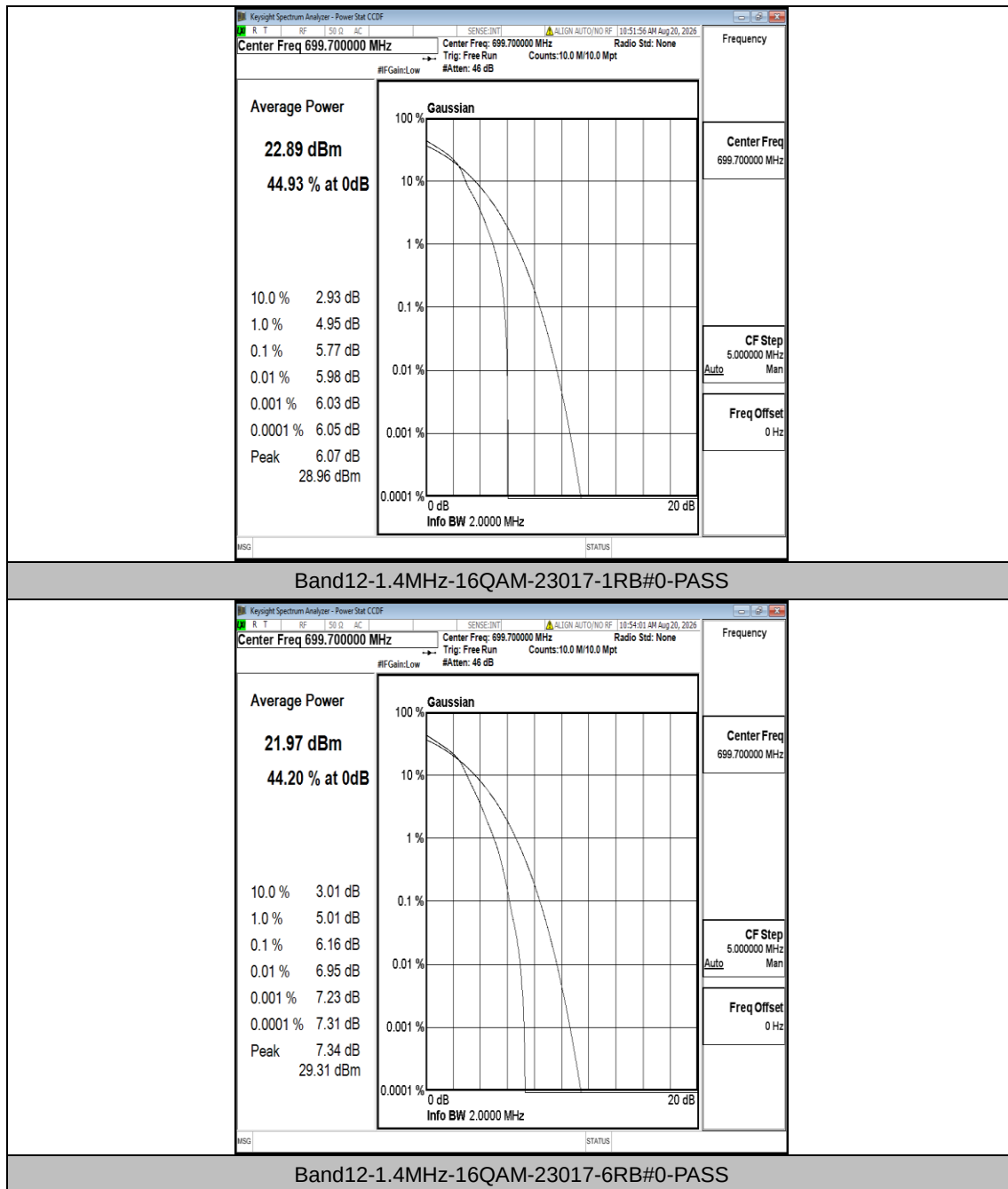
Test Result

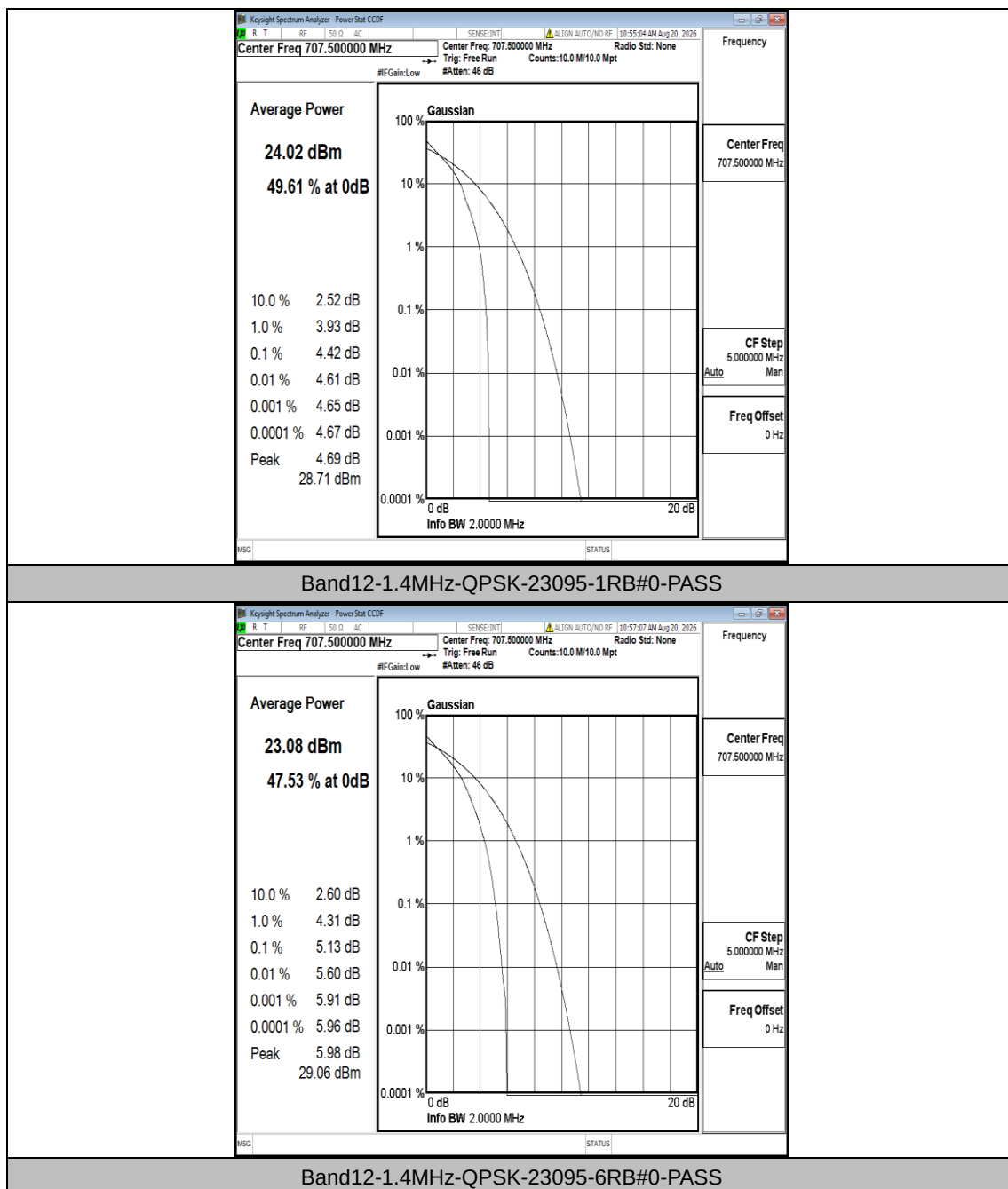
Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band12	1.4MHz	QPSK	23017	1RB#0	4.89	13	PASS
Band12	1.4MHz	QPSK	23017	6RB#0	5.44	13	PASS
Band12	1.4MHz	16QAM	23017	1RB#0	5.77	13	PASS
Band12	1.4MHz	16QAM	23017	6RB#0	6.16	13	PASS
Band12	1.4MHz	QPSK	23095	1RB#0	4.42	13	PASS
Band12	1.4MHz	QPSK	23095	6RB#0	5.13	13	PASS
Band12	1.4MHz	16QAM	23095	1RB#0	5.35	13	PASS
Band12	1.4MHz	16QAM	23095	6RB#0	5.88	13	PASS
Band12	1.4MHz	QPSK	23173	1RB#0	4.17	13	PASS
Band12	1.4MHz	QPSK	23173	6RB#0	4.79	13	PASS
Band12	1.4MHz	16QAM	23173	1RB#0	5.12	13	PASS
Band12	1.4MHz	16QAM	23173	6RB#0	5.61	13	PASS
Band12	3MHz	QPSK	23025	1RB#0	4.78	13	PASS
Band12	3MHz	QPSK	23025	15RB#0	5.45	13	PASS
Band12	3MHz	16QAM	23025	1RB#0	5.64	13	PASS
Band12	3MHz	16QAM	23025	15RB#0	6.26	13	PASS
Band12	3MHz	QPSK	23095	1RB#0	4.32	13	PASS
Band12	3MHz	QPSK	23095	15RB#0	5.23	13	PASS
Band12	3MHz	16QAM	23095	1RB#0	5.18	13	PASS
Band12	3MHz	16QAM	23095	15RB#0	6.05	13	PASS
Band12	3MHz	QPSK	23165	1RB#0	4.59	13	PASS
Band12	3MHz	QPSK	23165	15RB#0	5.12	13	PASS
Band12	3MHz	16QAM	23165	1RB#0	5.44	13	PASS
Band12	3MHz	16QAM	23165	15RB#0	5.96	13	PASS
Band12	5MHz	QPSK	23035	1RB#0	5.02	13	PASS
Band12	5MHz	QPSK	23035	25RB#0	5.57	13	PASS
Band12	5MHz	16QAM	23035	1RB#0	5.65	13	PASS
Band12	5MHz	16QAM	23035	25RB#0	6.25	13	PASS
Band12	5MHz	QPSK	23095	1RB#0	4.52	13	PASS
Band12	5MHz	QPSK	23095	25RB#0	5.49	13	PASS
Band12	5MHz	16QAM	23095	1RB#0	5.22	13	PASS
Band12	5MHz	16QAM	23095	25RB#0	6.16	13	PASS
Band12	5MHz	QPSK	23155	1RB#0	5.04	13	PASS
Band12	5MHz	QPSK	23155	25RB#0	5.47	13	PASS
Band12	5MHz	16QAM	23155	1RB#0	5.65	13	PASS
Band12	5MHz	16QAM	23155	25RB#0	6.16	13	PASS

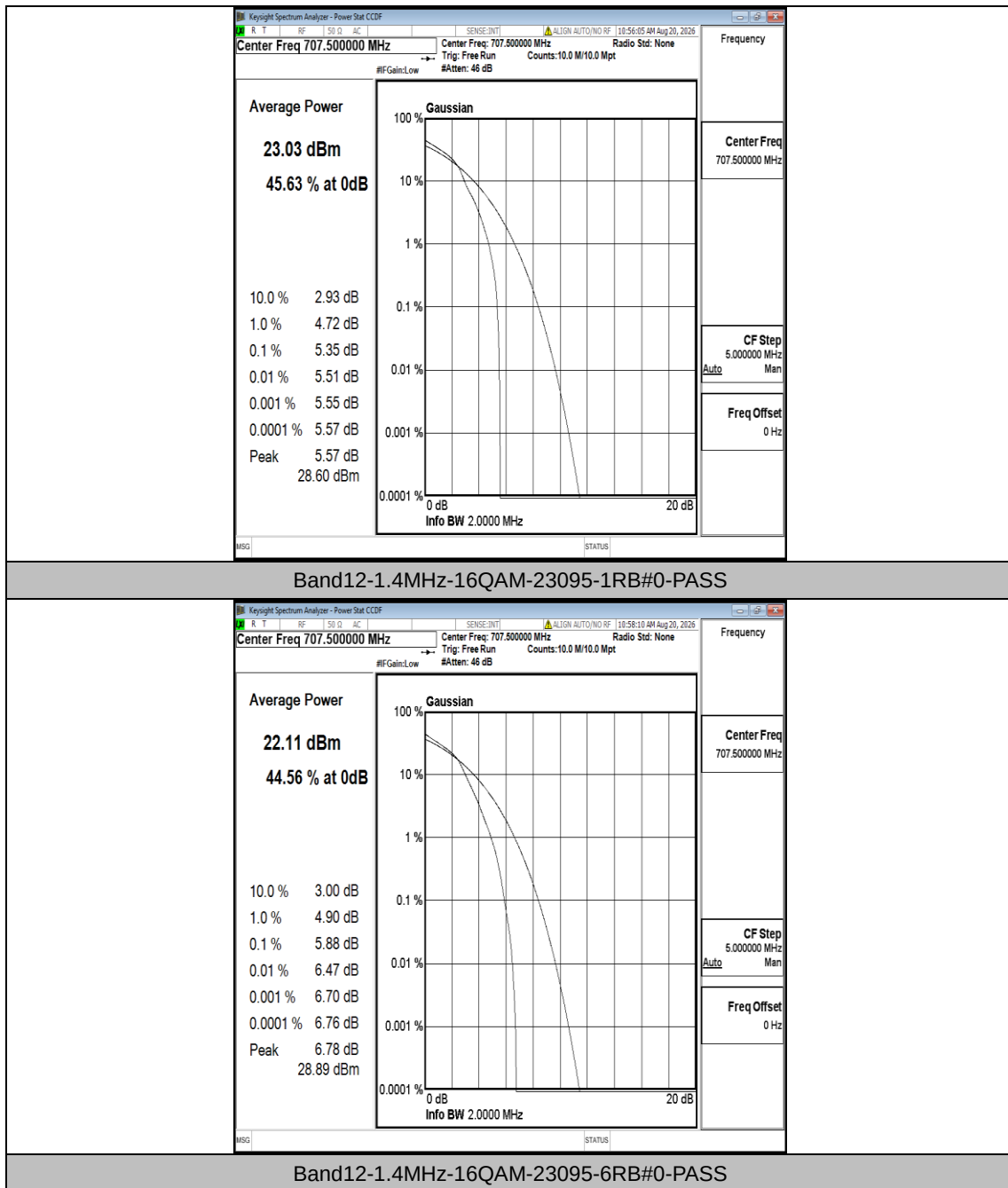
Band12	10MHz	QPSK	23060	1RB#0	4.81	13	PASS
Band12	10MHz	QPSK	23060	50RB#0	5.49	13	PASS
Band12	10MHz	16QAM	23060	1RB#0	5.67	13	PASS
Band12	10MHz	16QAM	23060	50RB#0	6.21	13	PASS
Band12	10MHz	QPSK	23095	1RB#0	4.52	13	PASS
Band12	10MHz	QPSK	23095	50RB#0	5.48	13	PASS
Band12	10MHz	16QAM	23095	1RB#0	5.40	13	PASS
Band12	10MHz	16QAM	23095	50RB#0	6.21	13	PASS
Band12	10MHz	QPSK	23130	1RB#0	4.33	13	PASS
Band12	10MHz	QPSK	23130	50RB#0	5.41	13	PASS
Band12	10MHz	16QAM	23130	1RB#0	5.19	13	PASS
Band12	10MHz	16QAM	23130	50RB#0	6.18	13	PASS

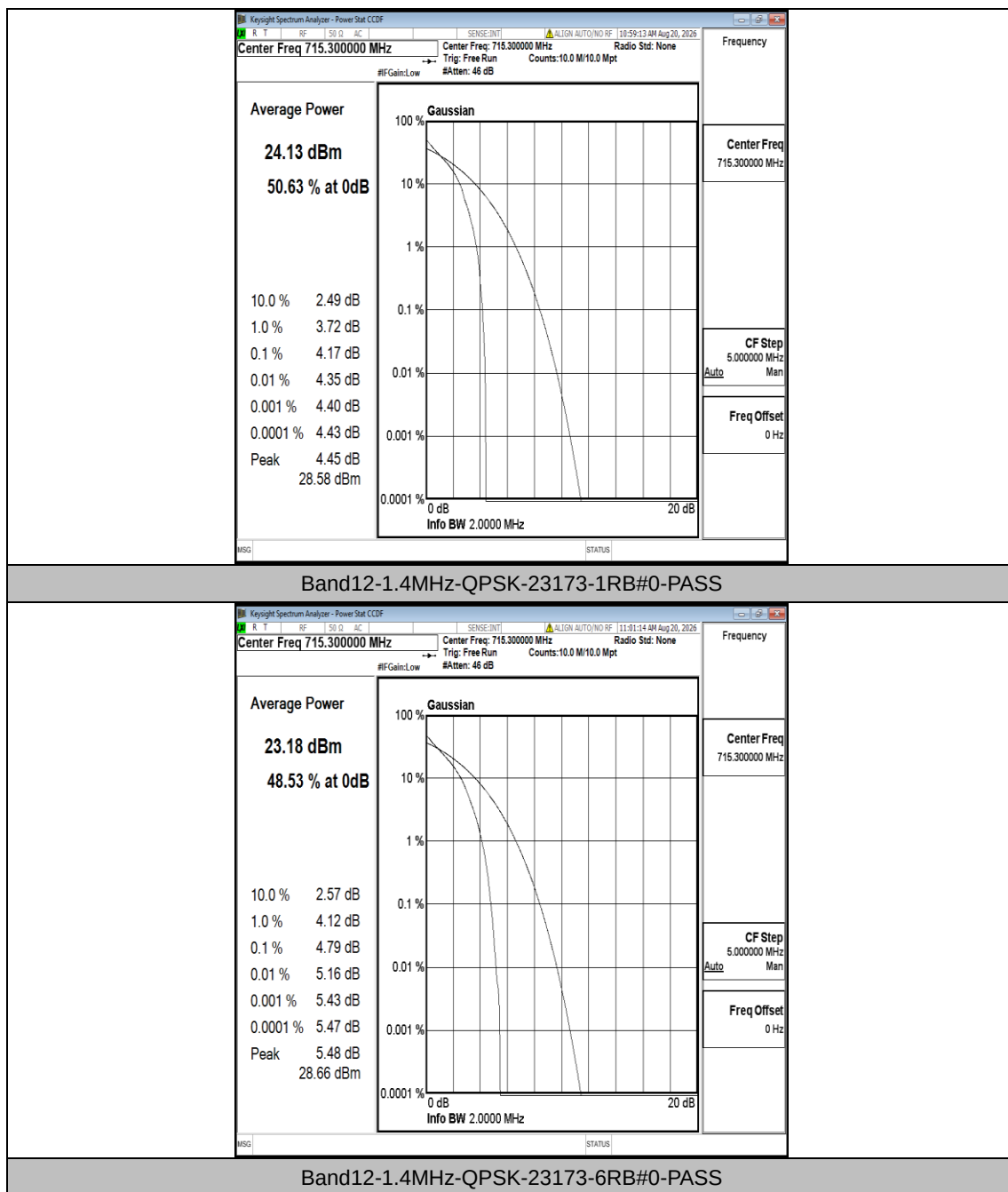
Test Graphs

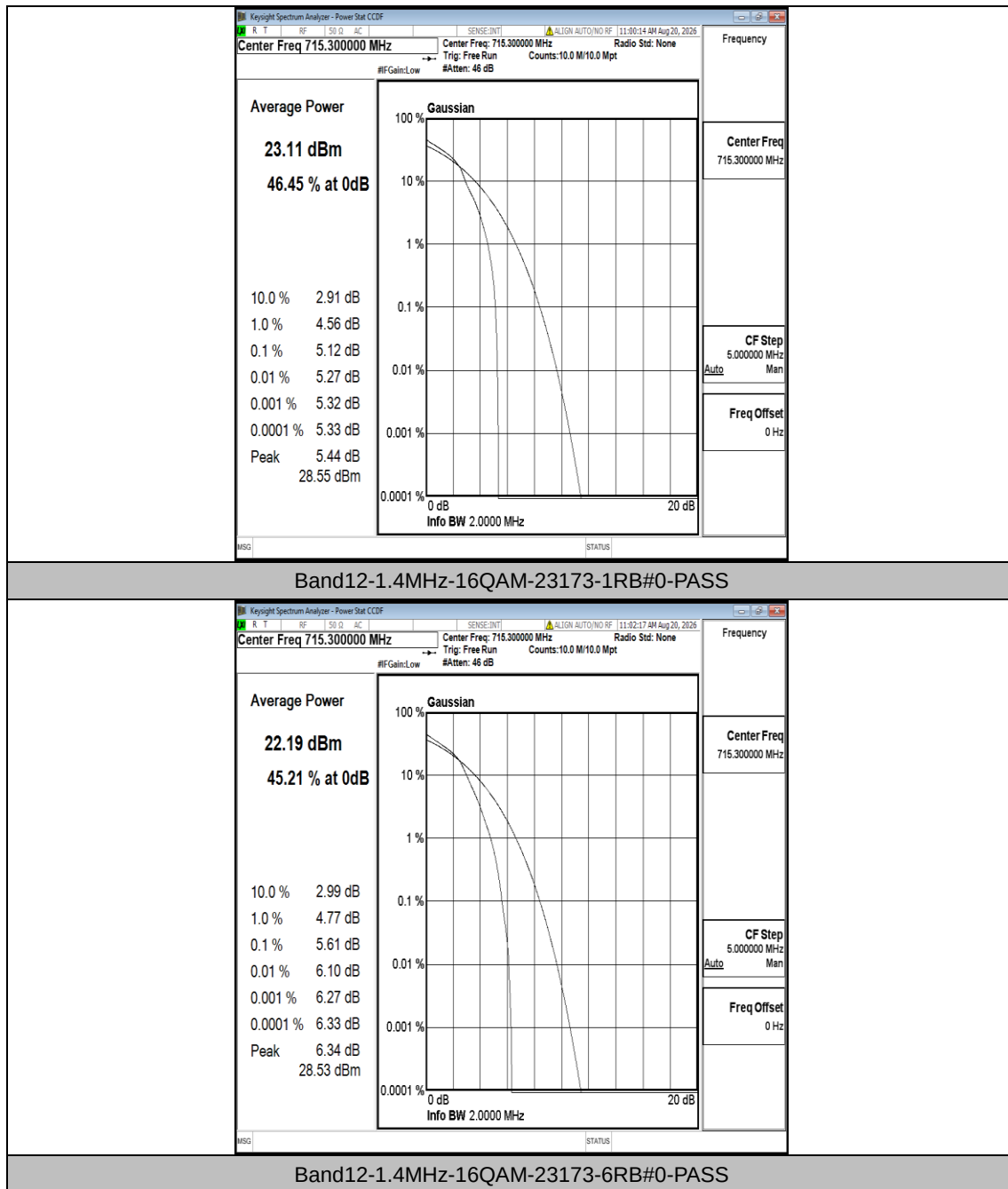


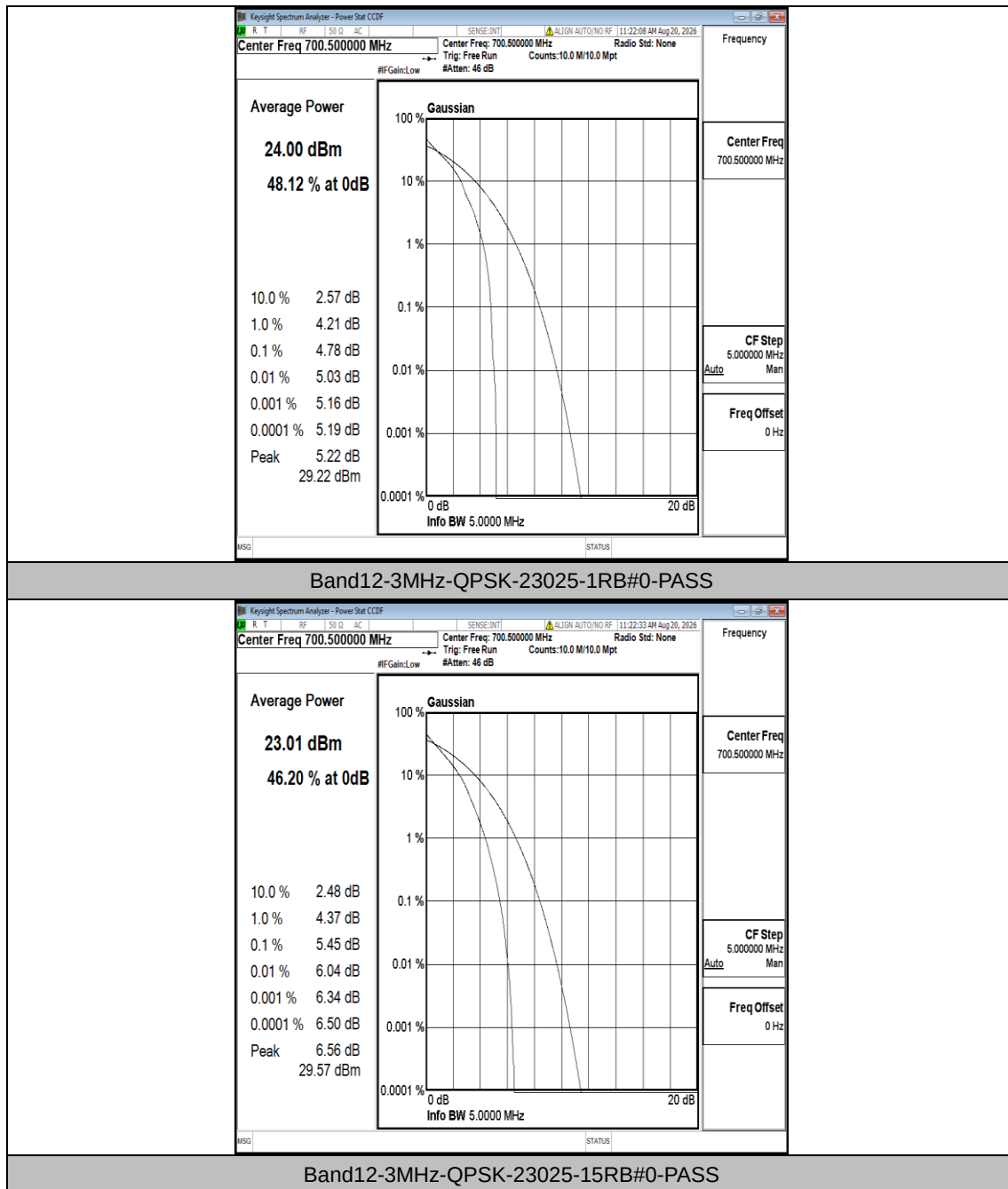


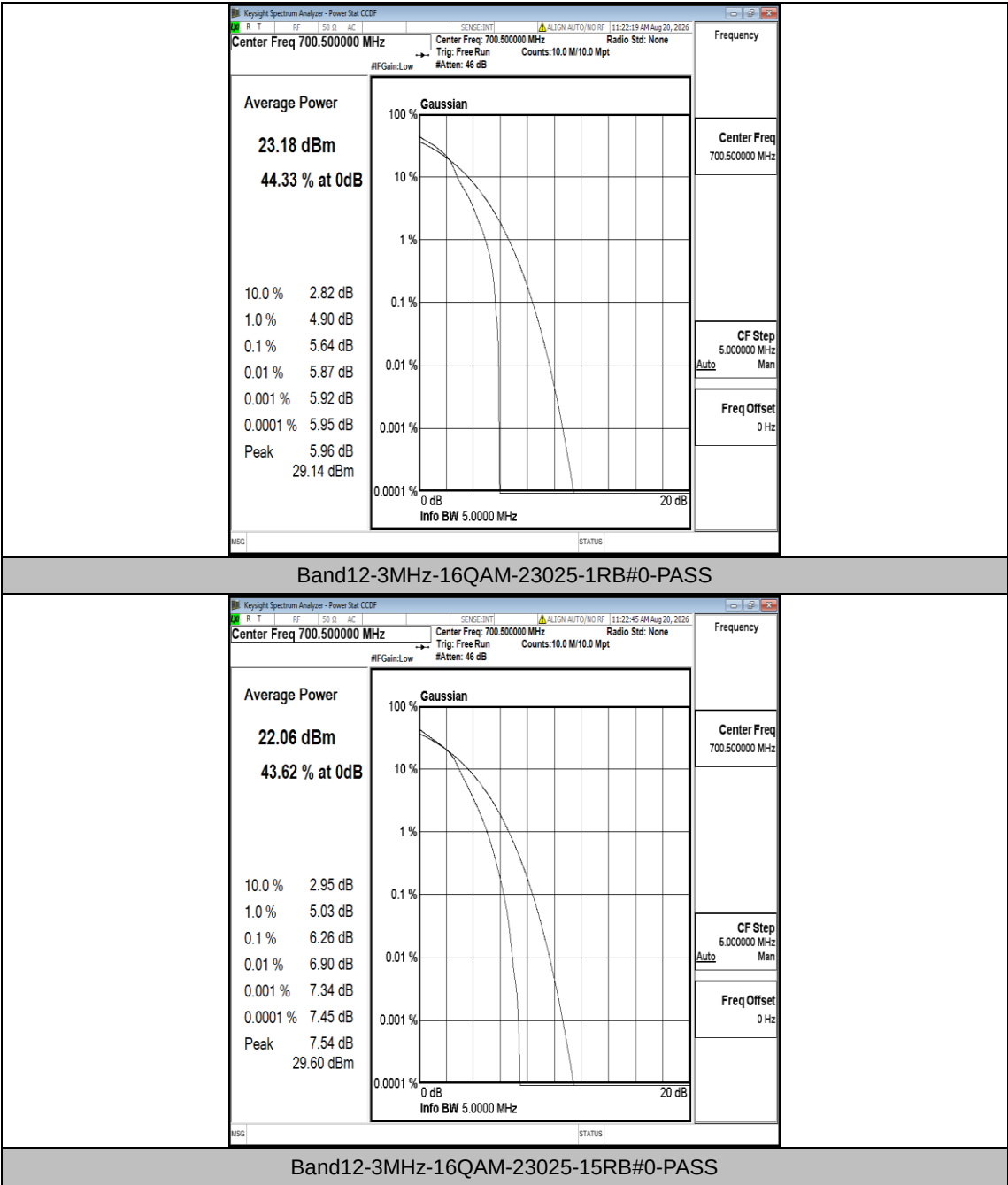




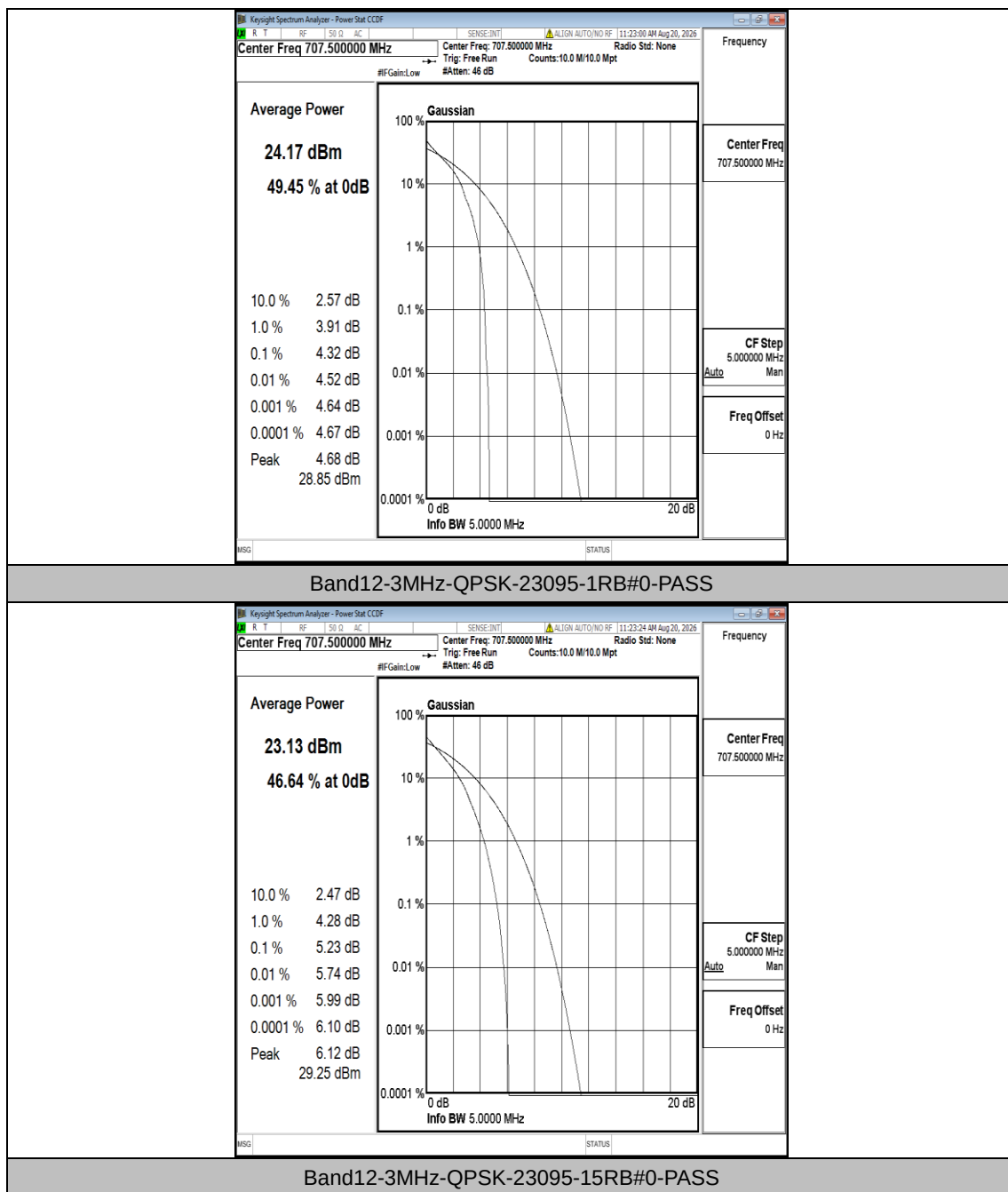


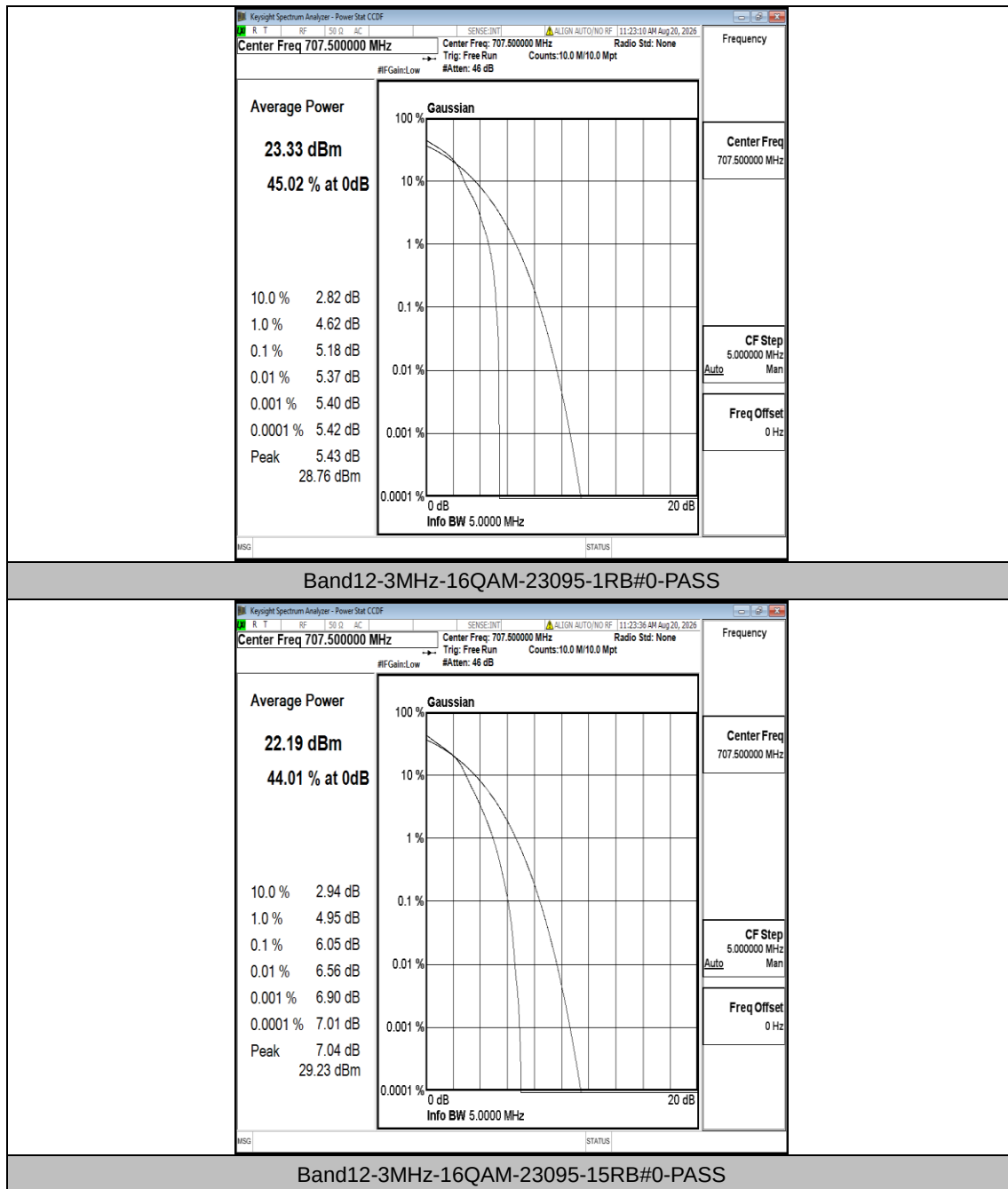


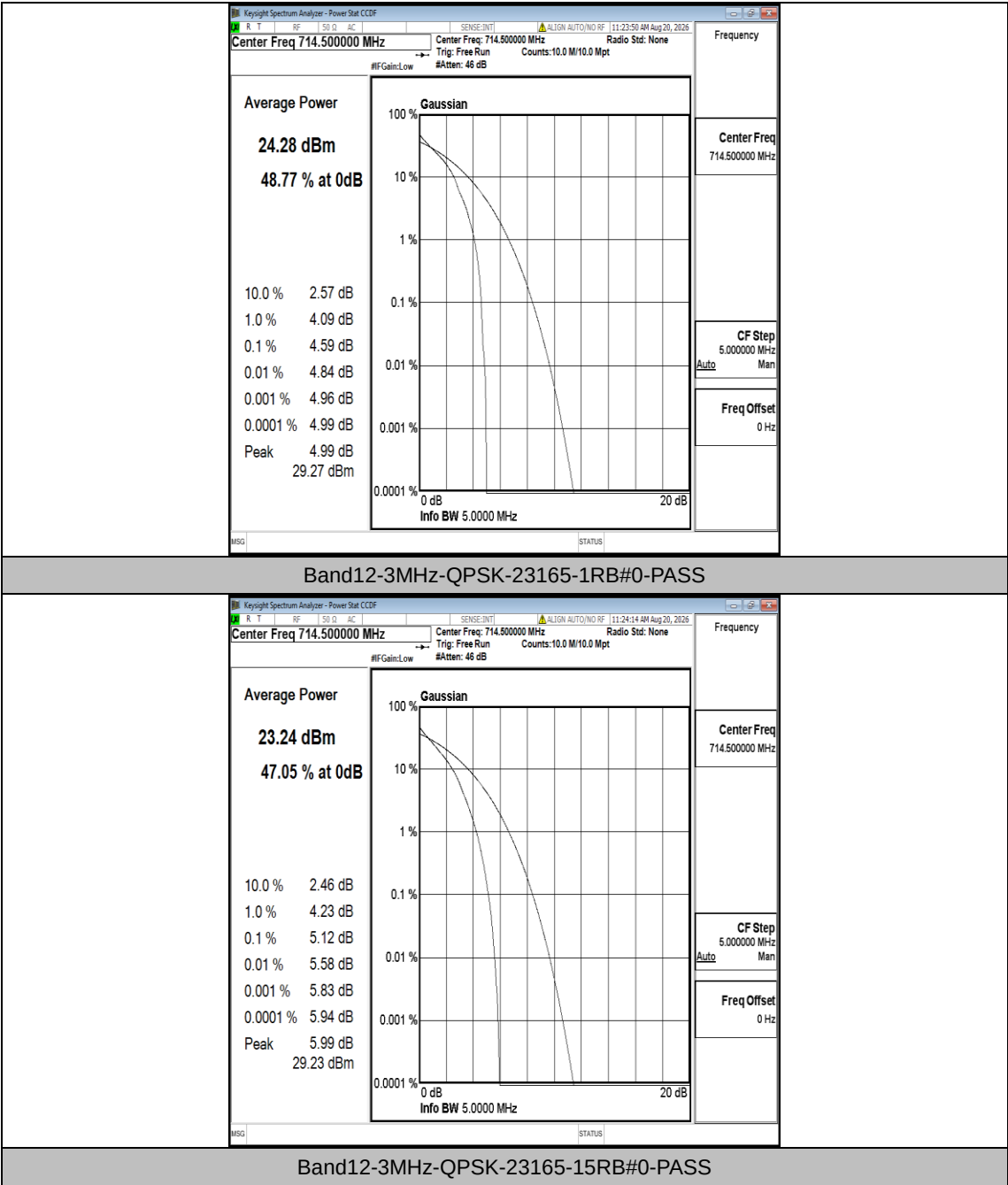




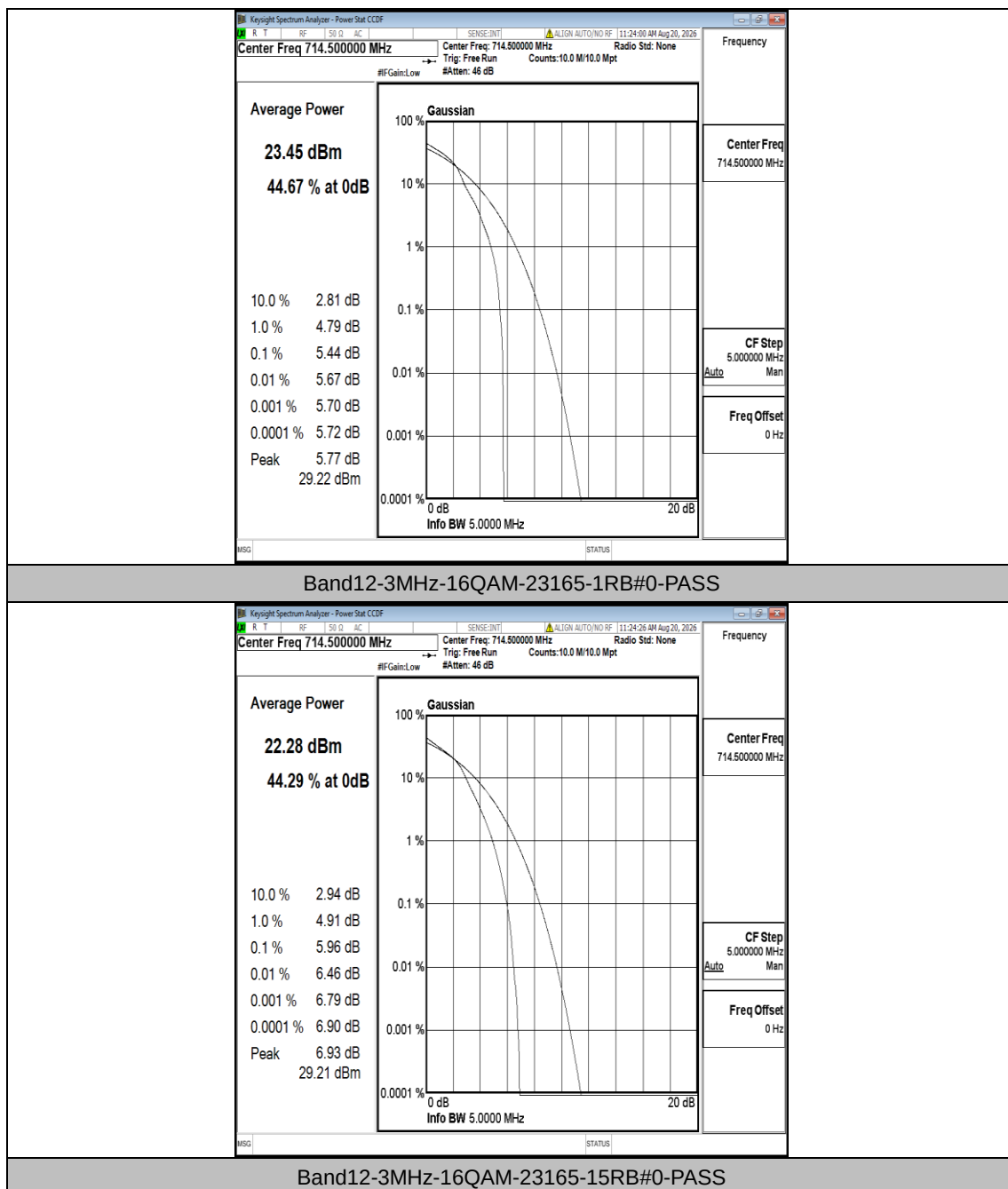
Band12-3MHz-16QAM-23025-15RB#0-PASS

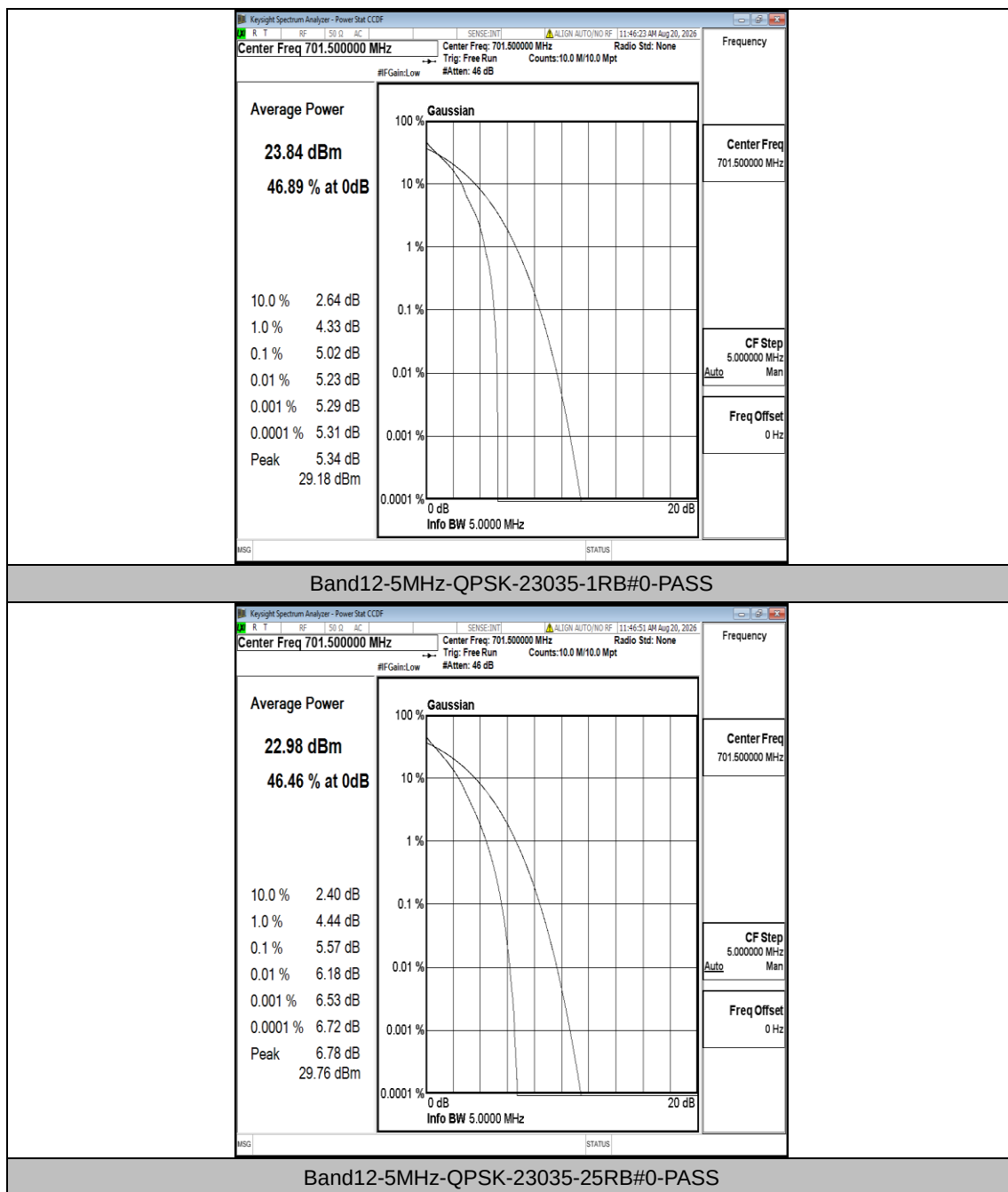


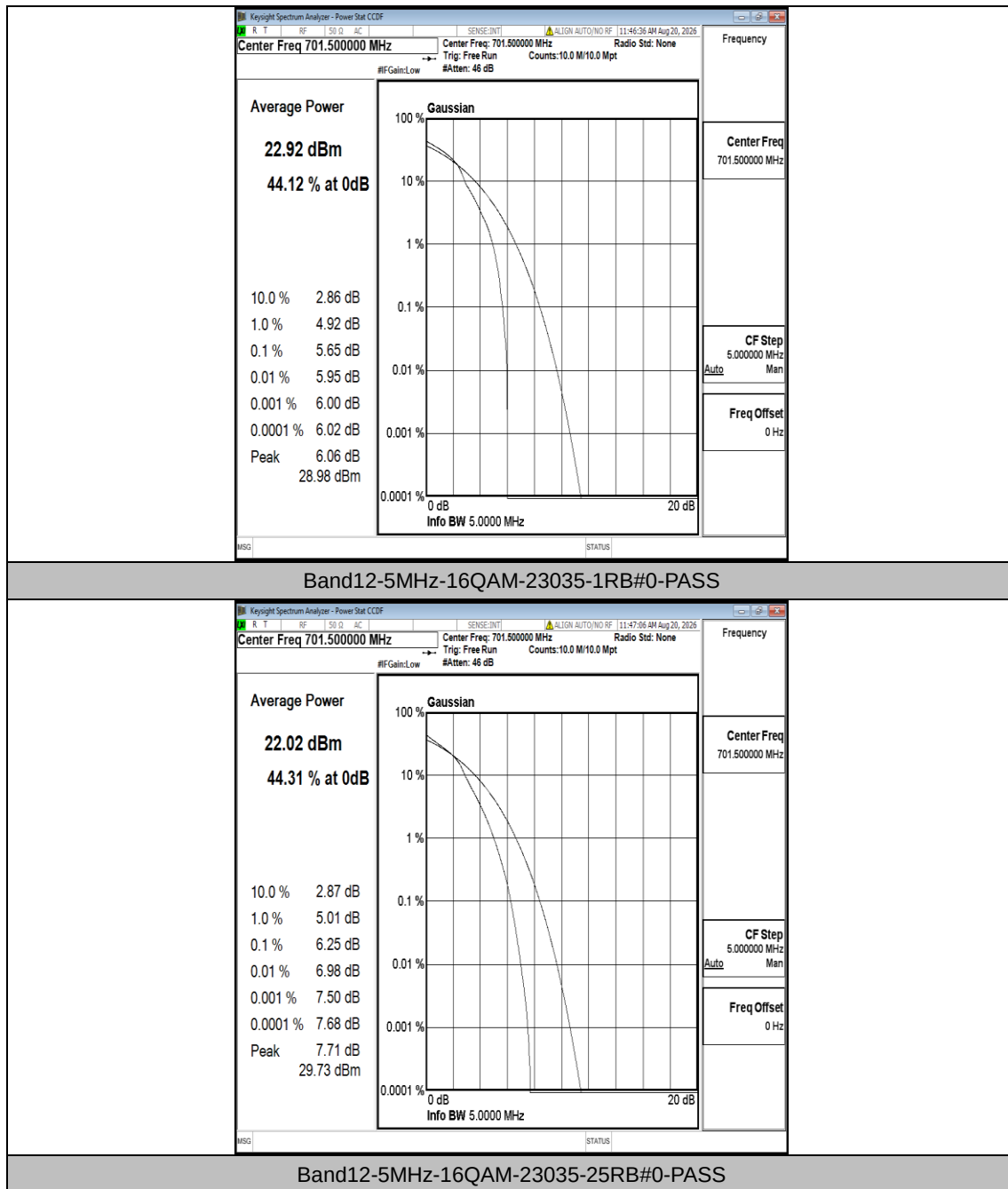


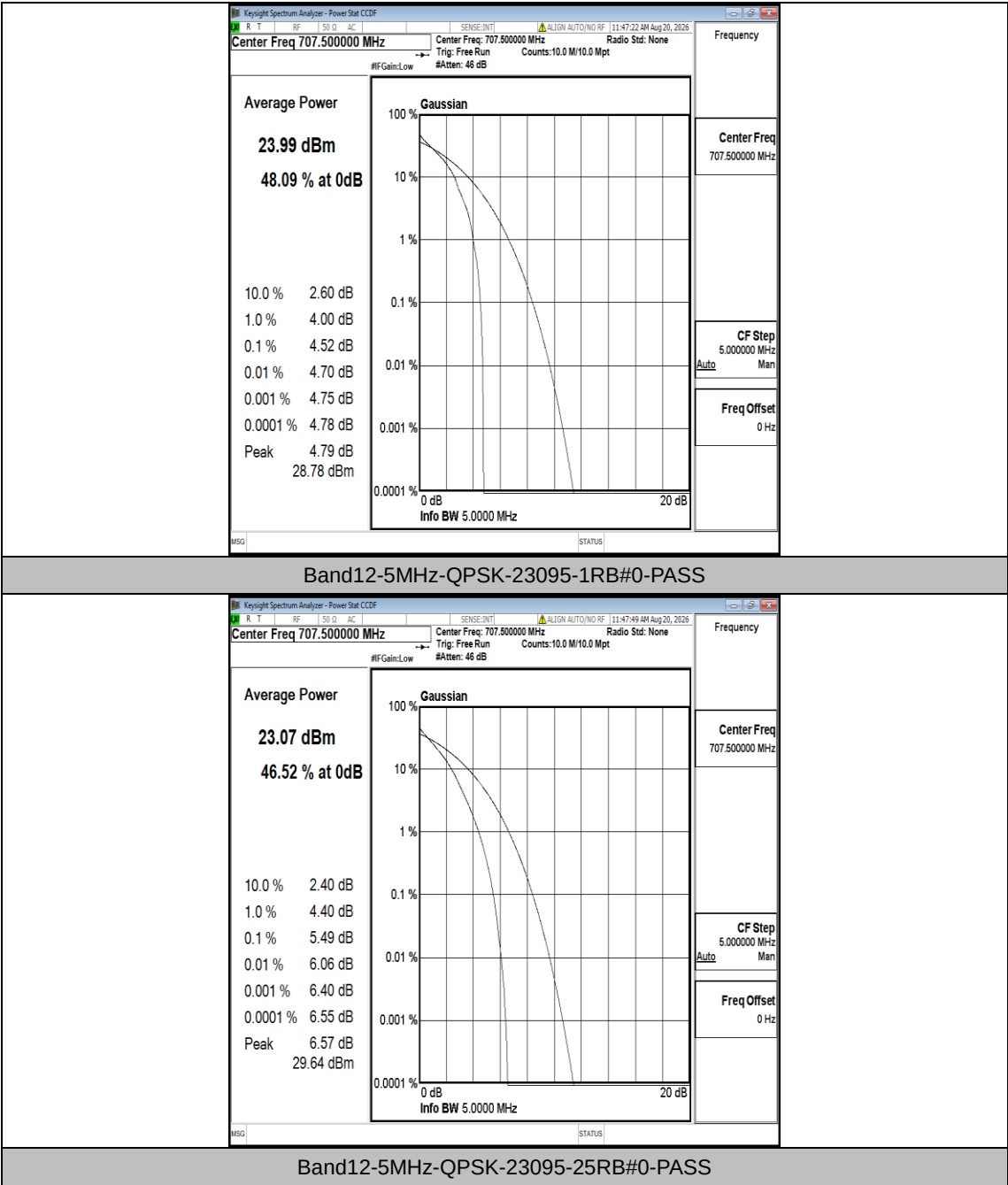


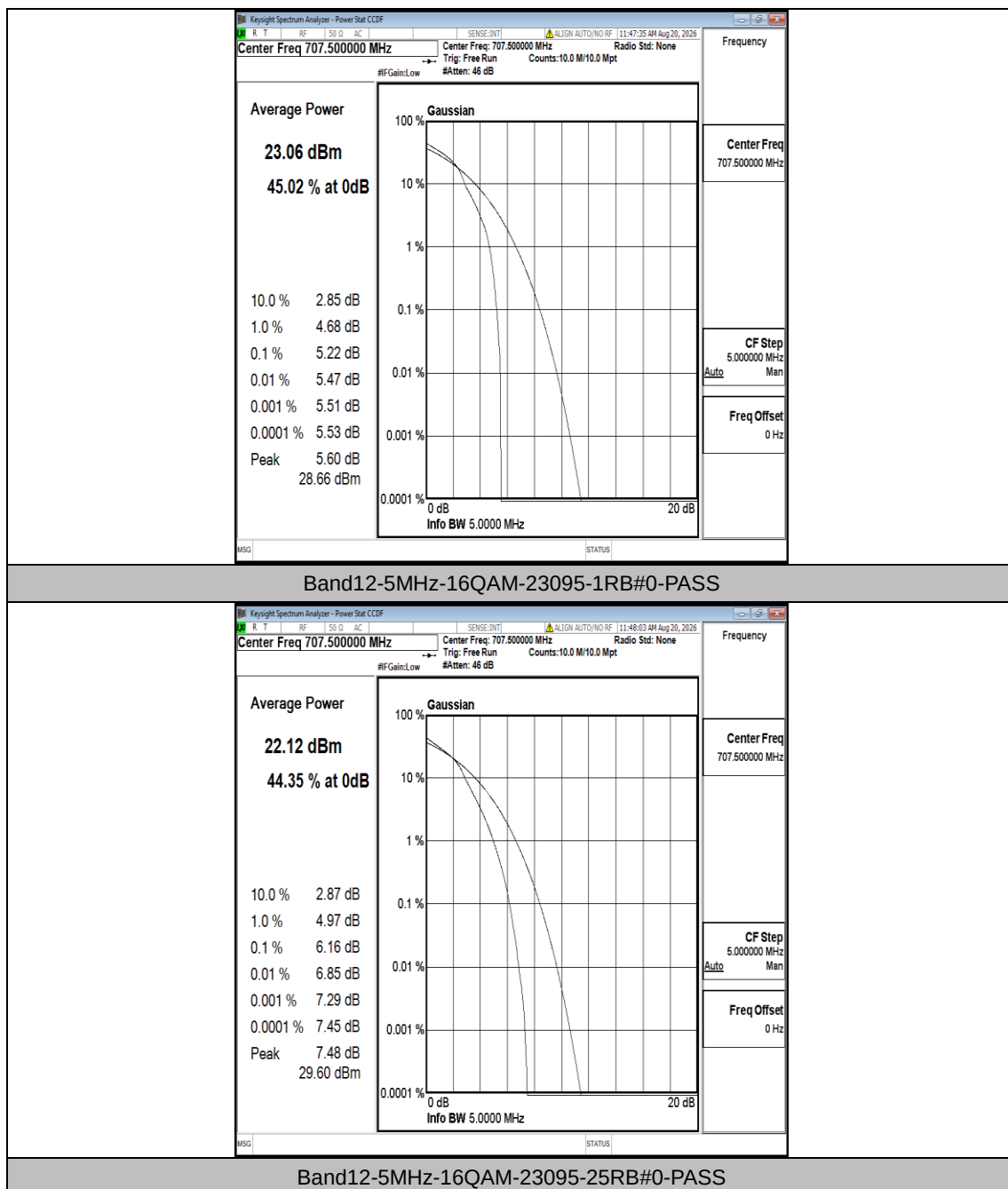
Band12-3MHz-QPSK-23165-15RB#0-PASS

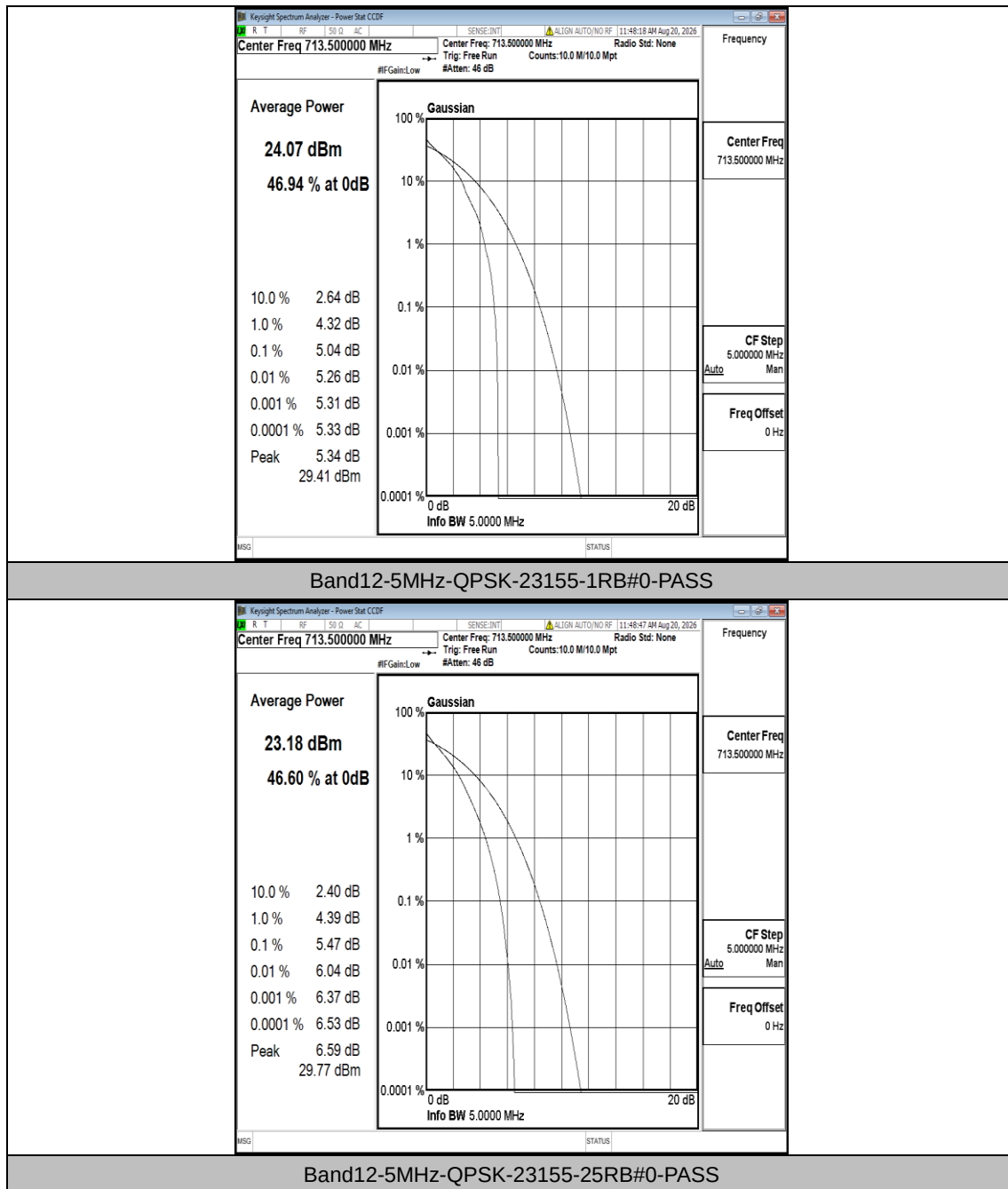


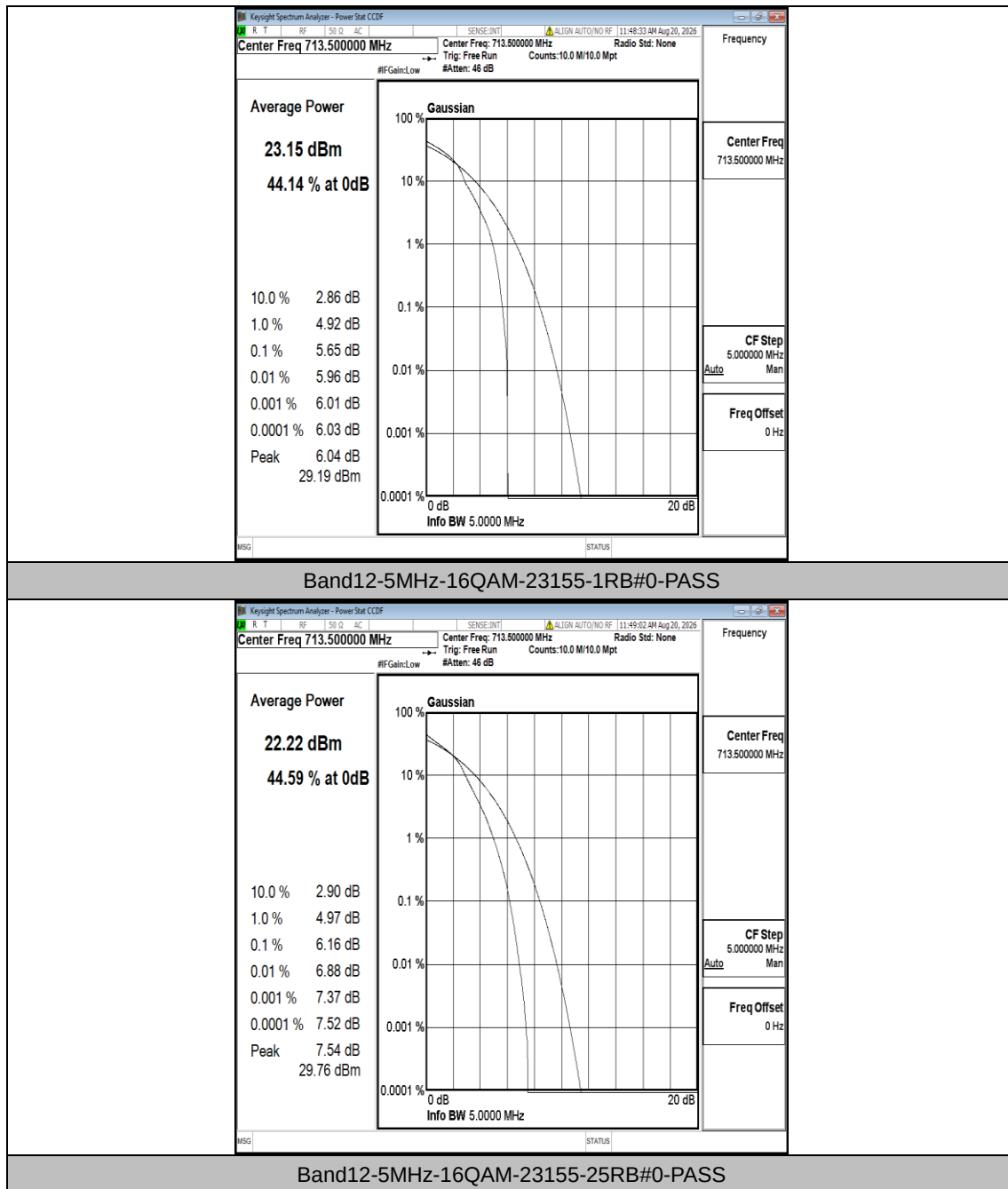


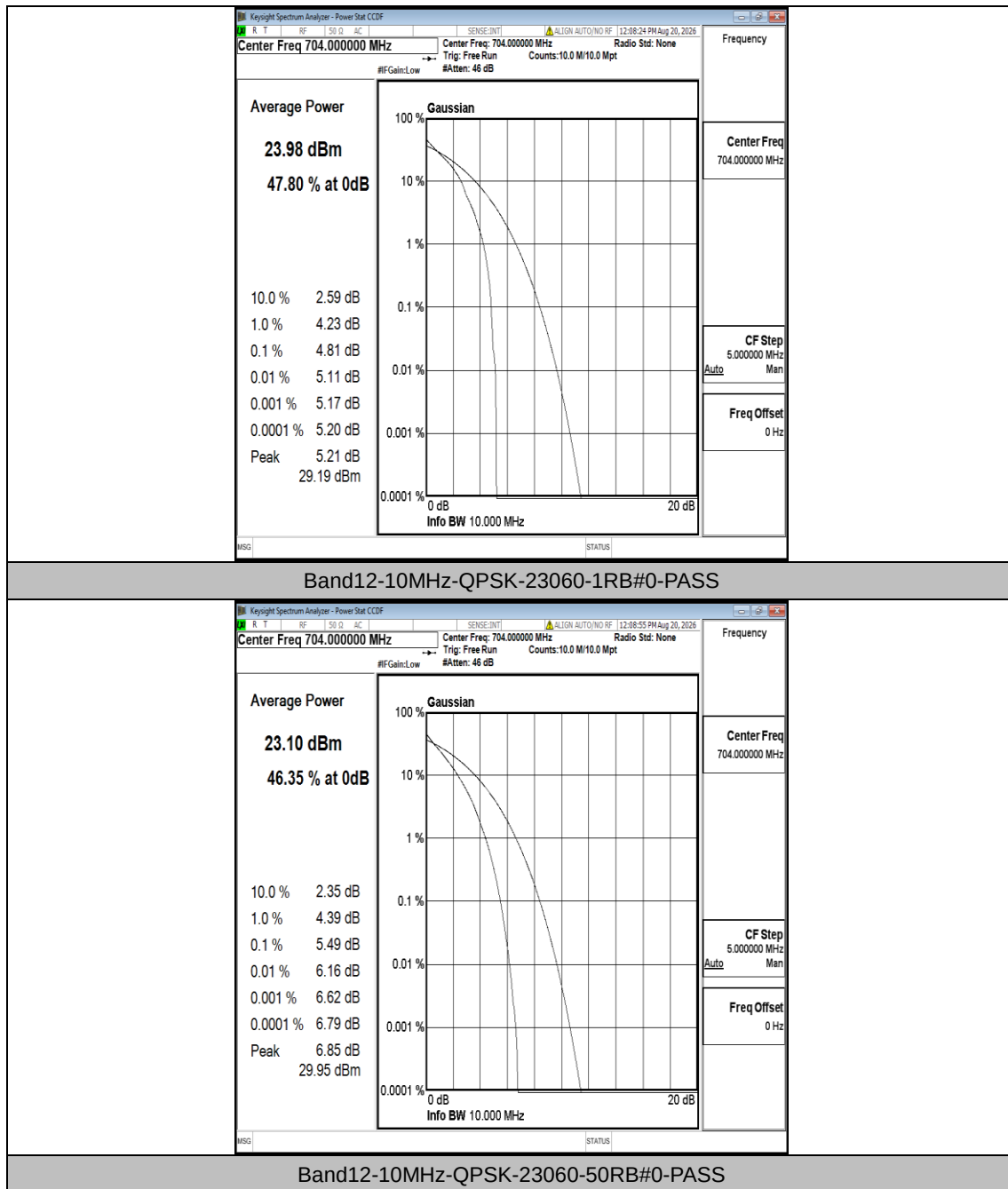


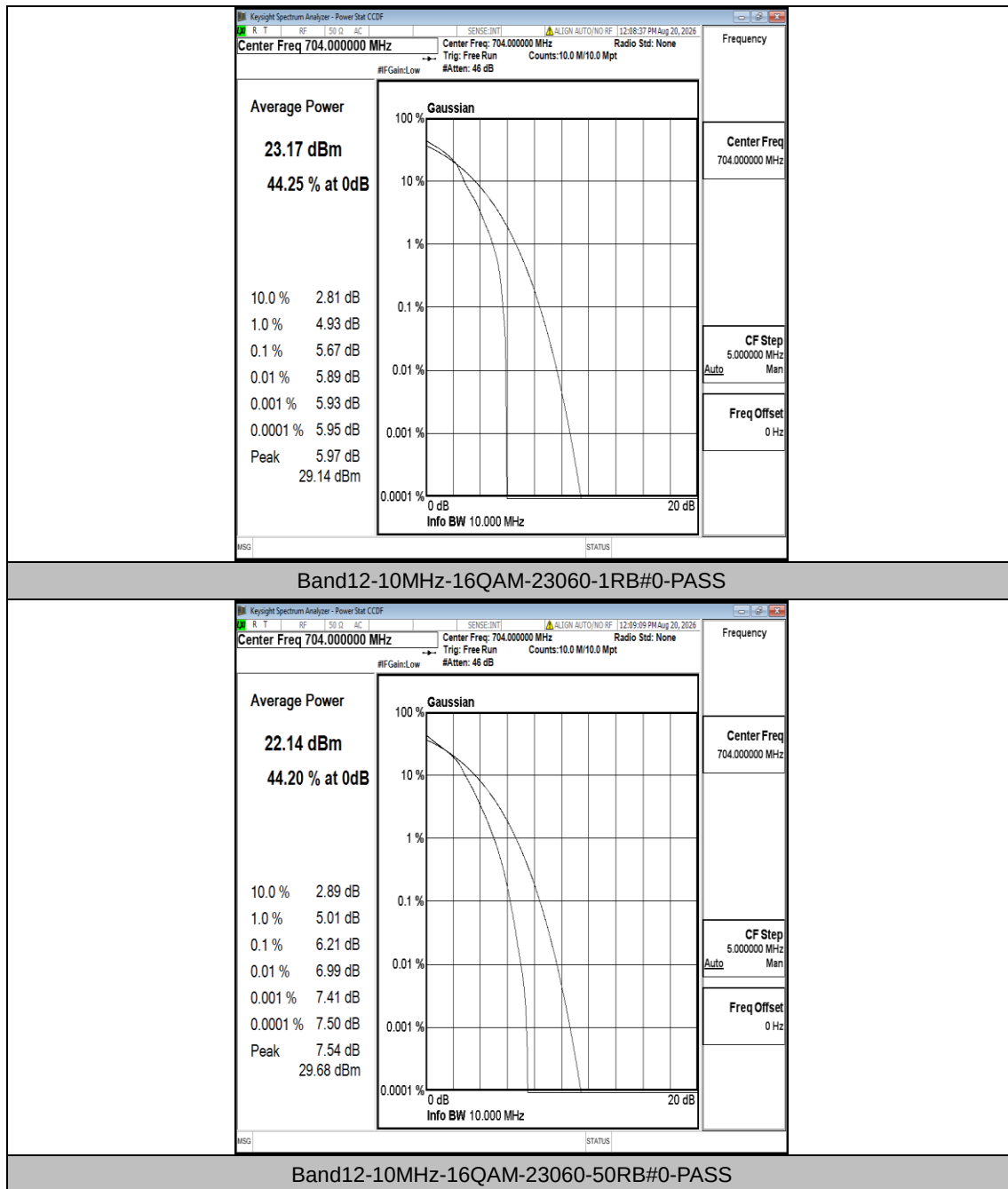


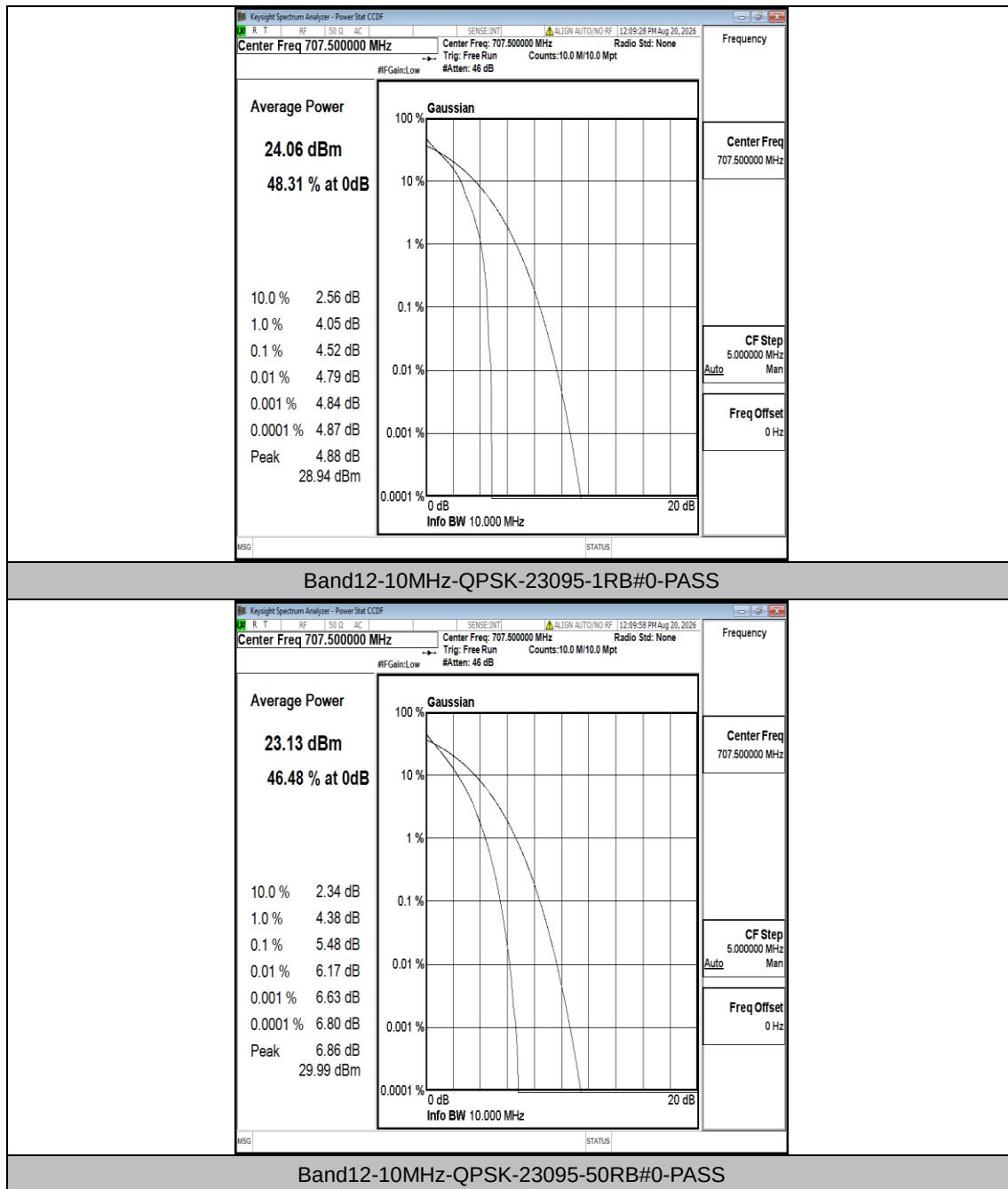


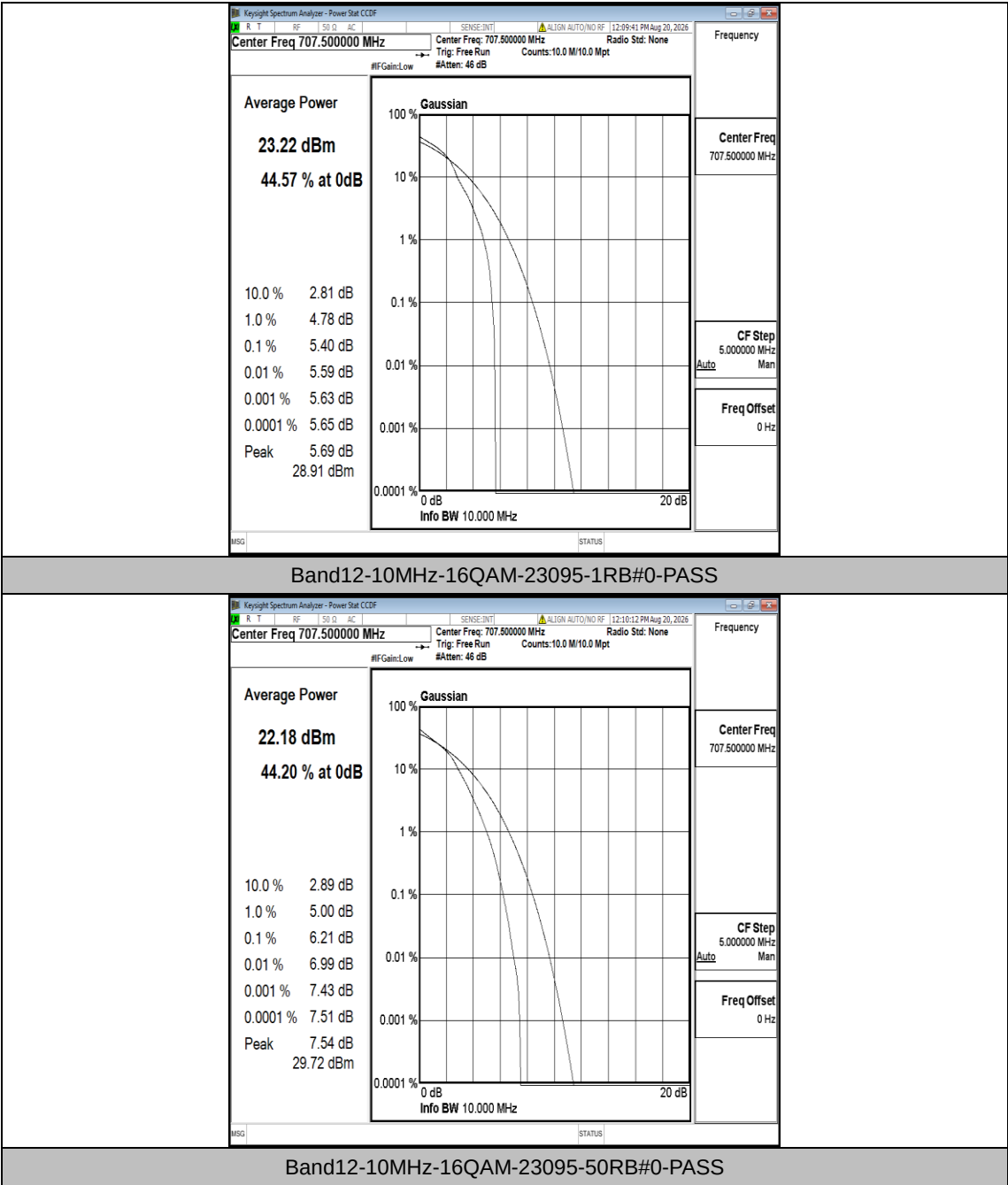


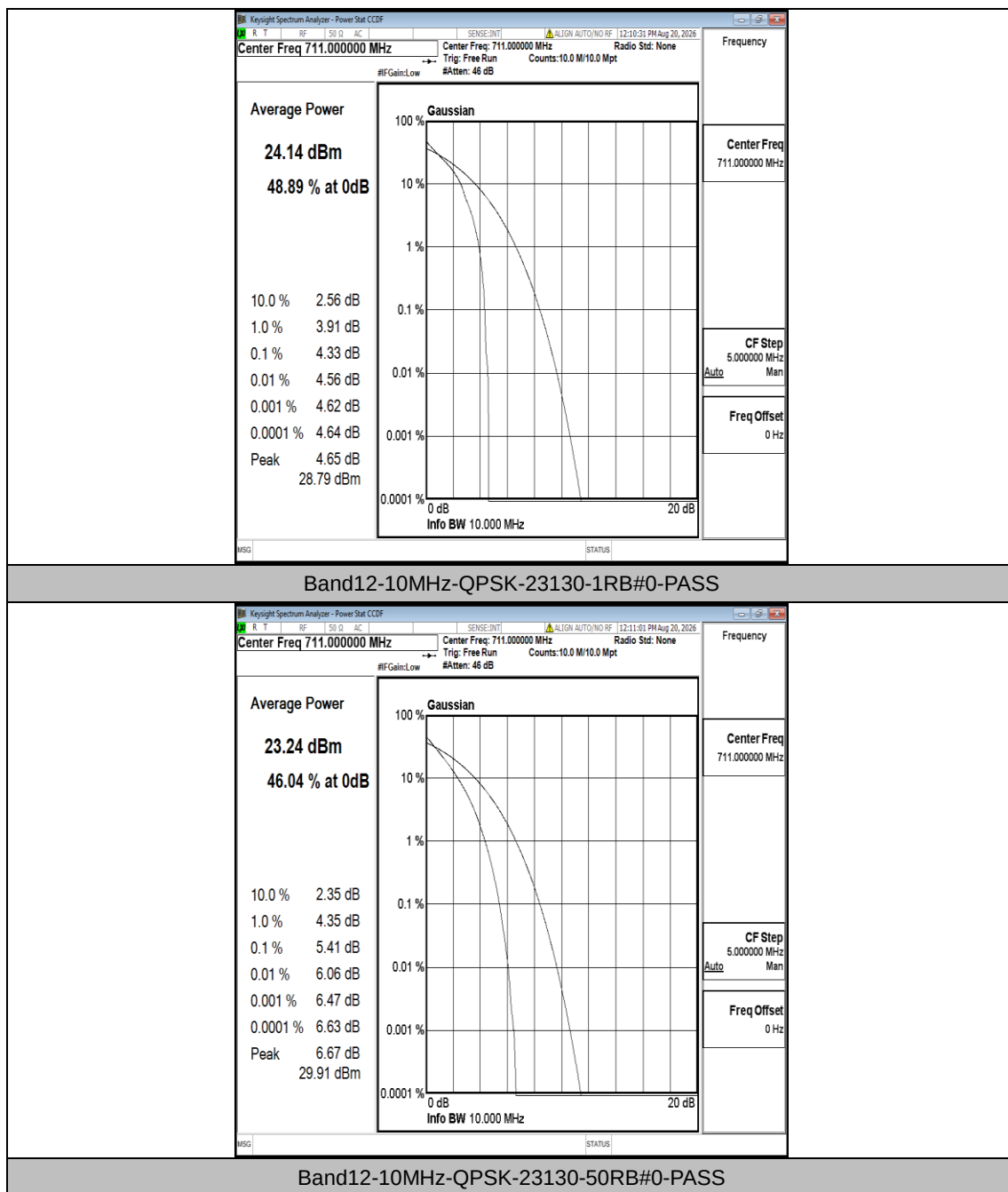


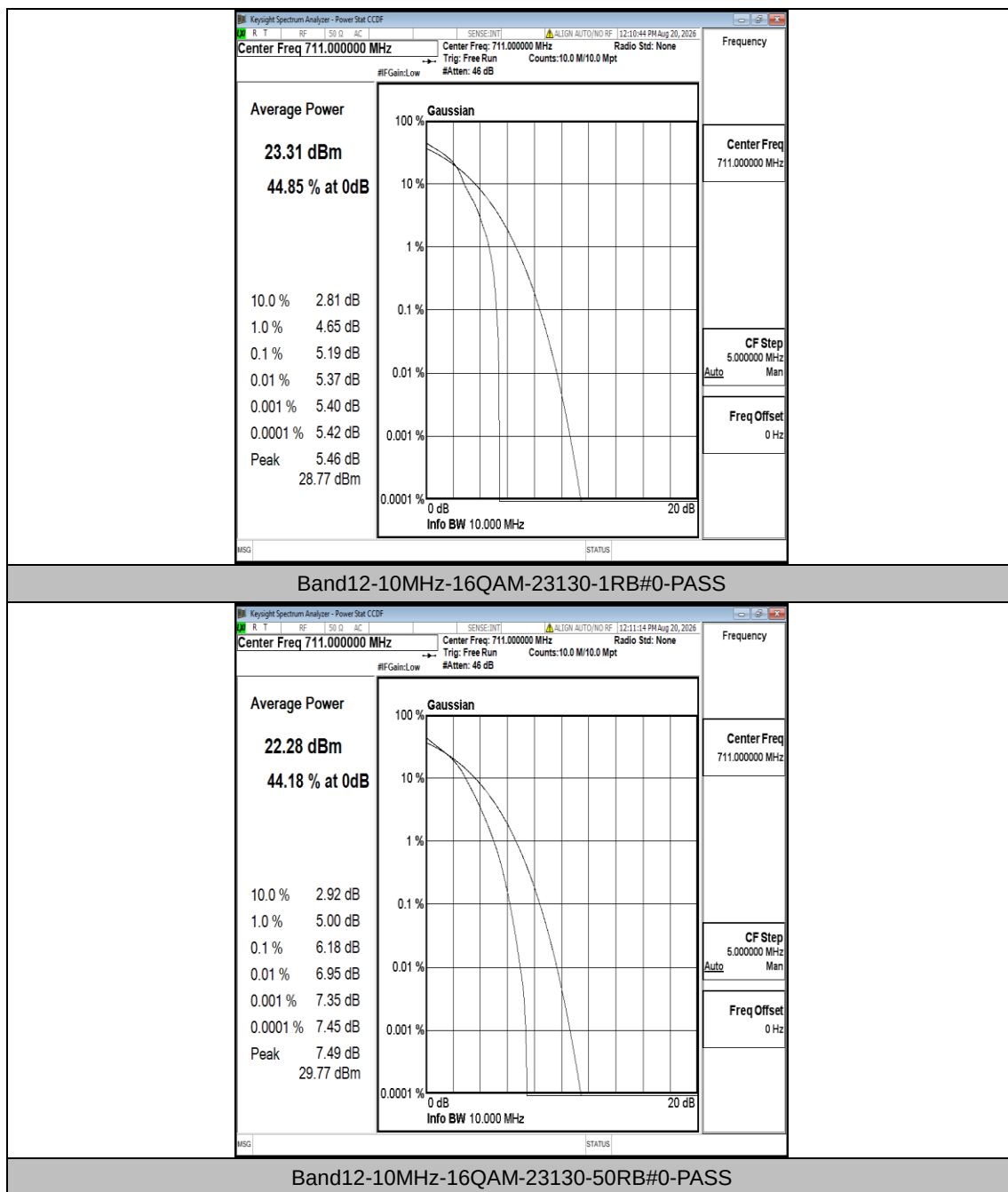










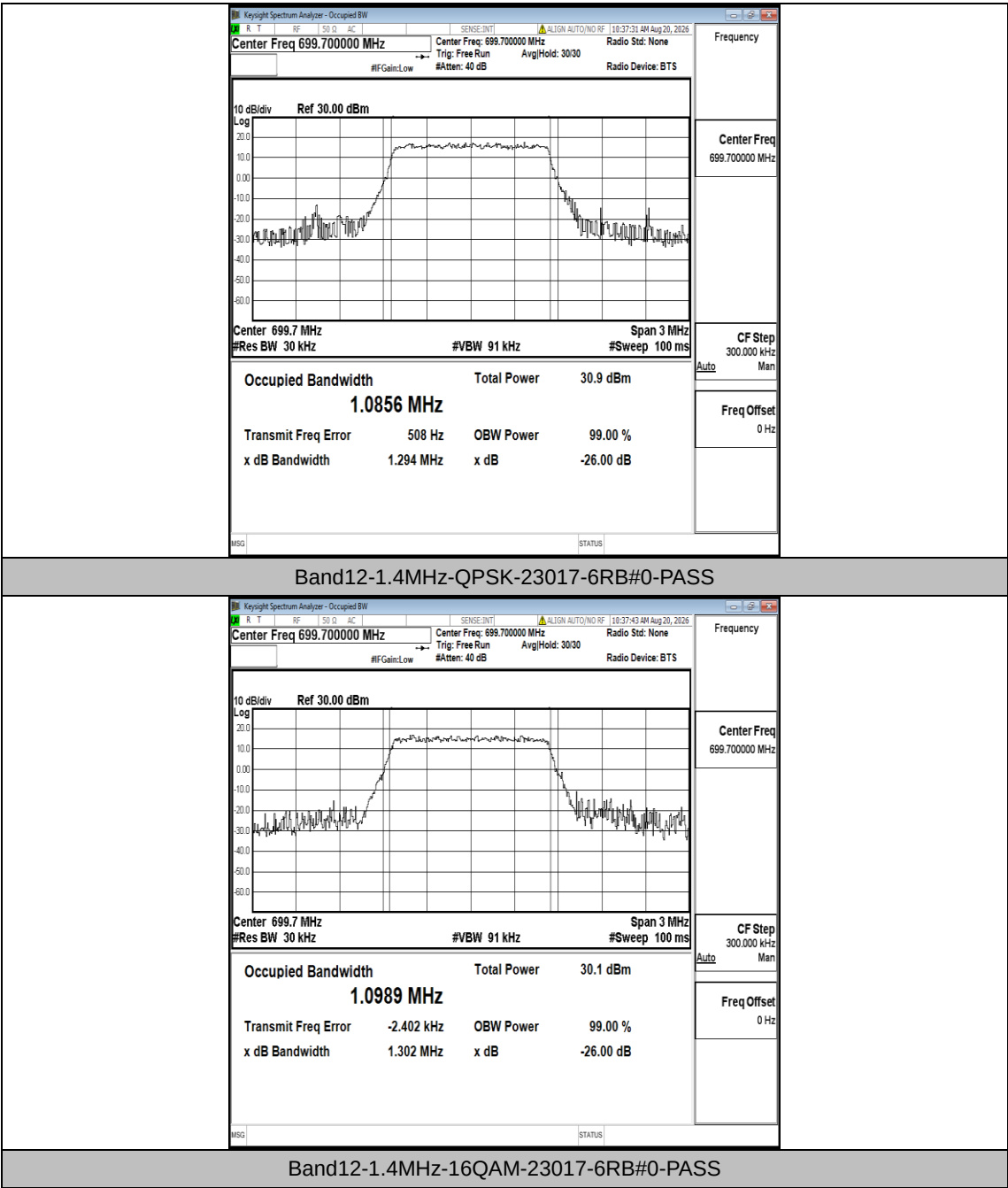


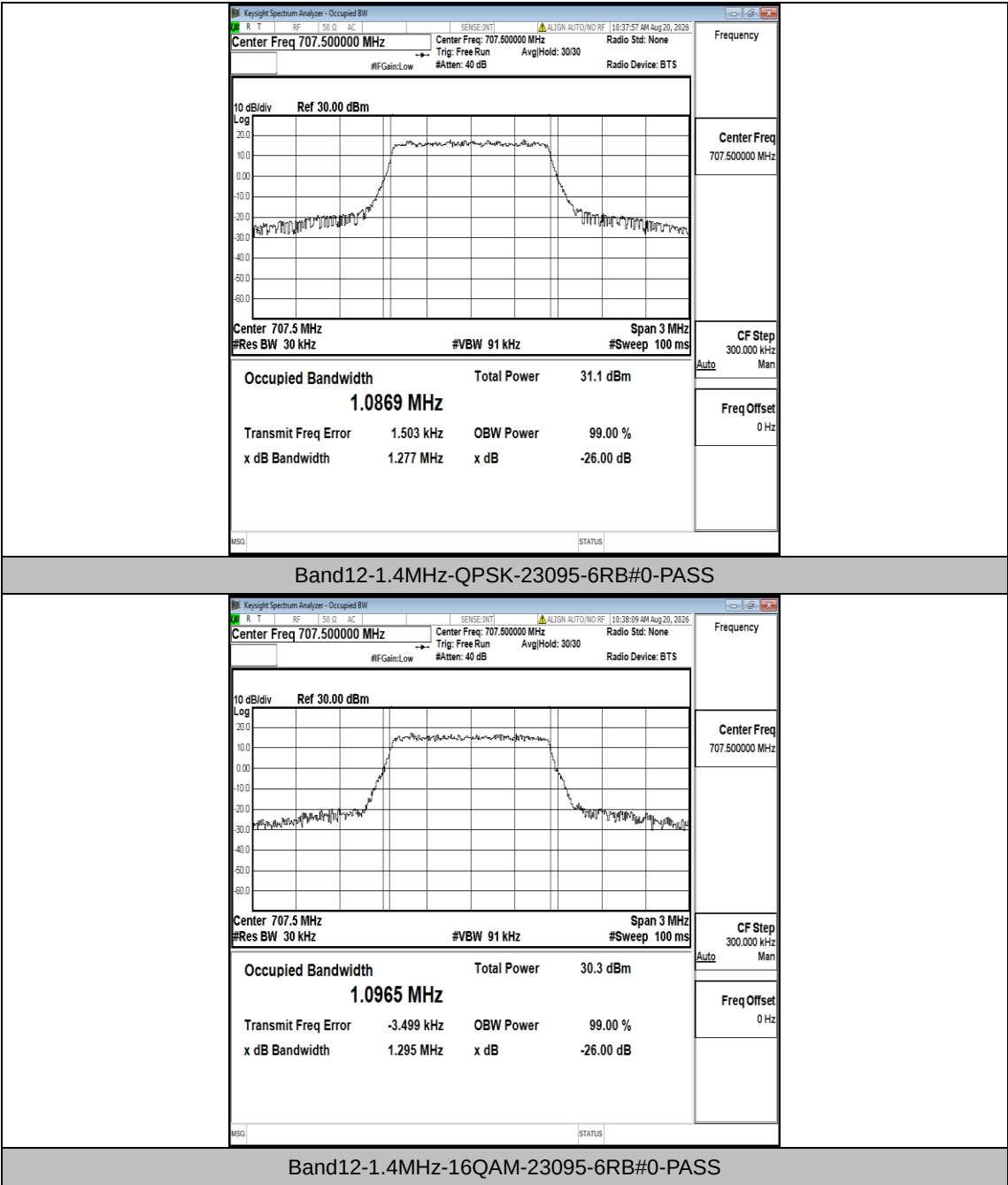
F.3 26dB Bandwidth and Occupied Bandwidth

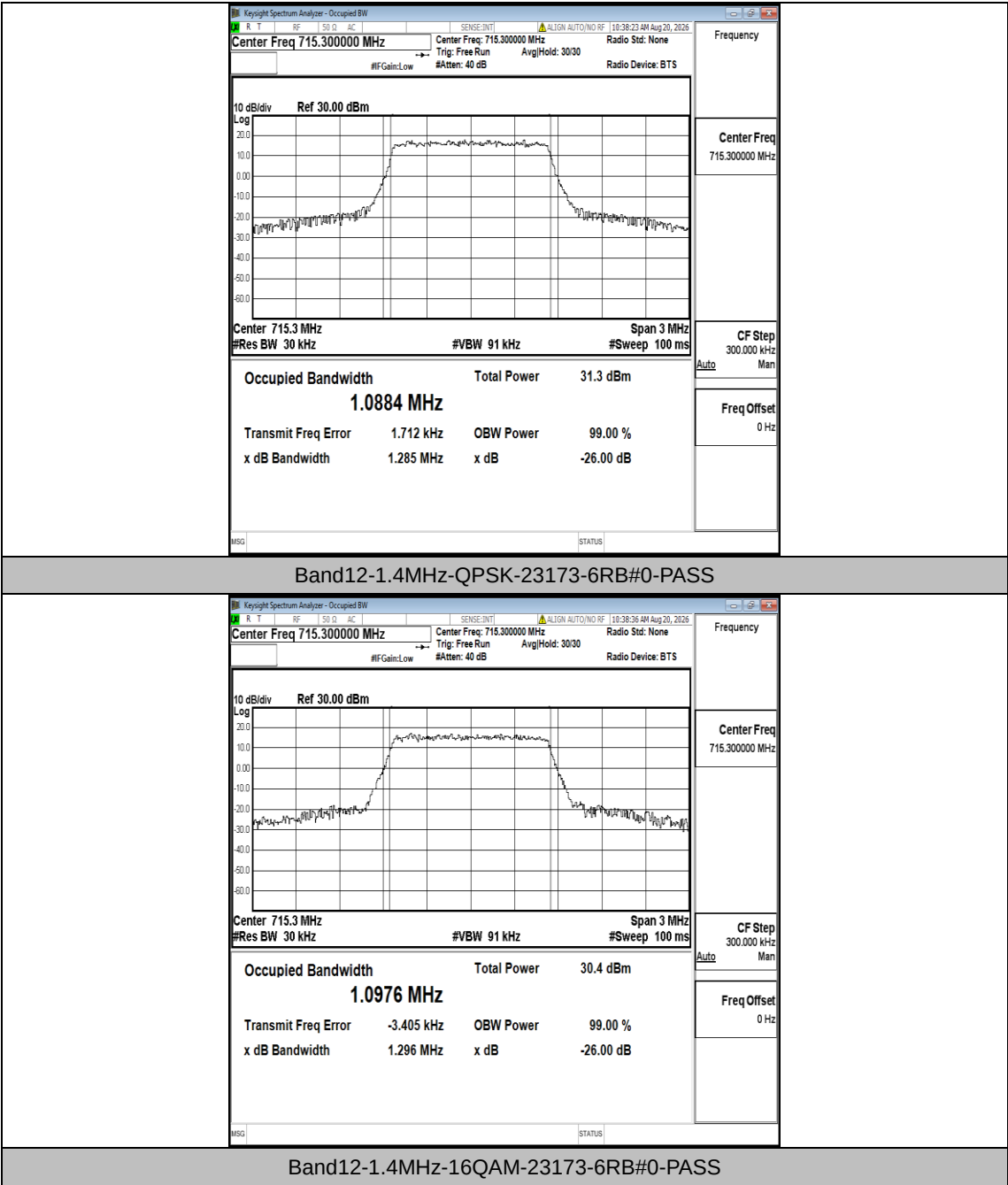
Test Result

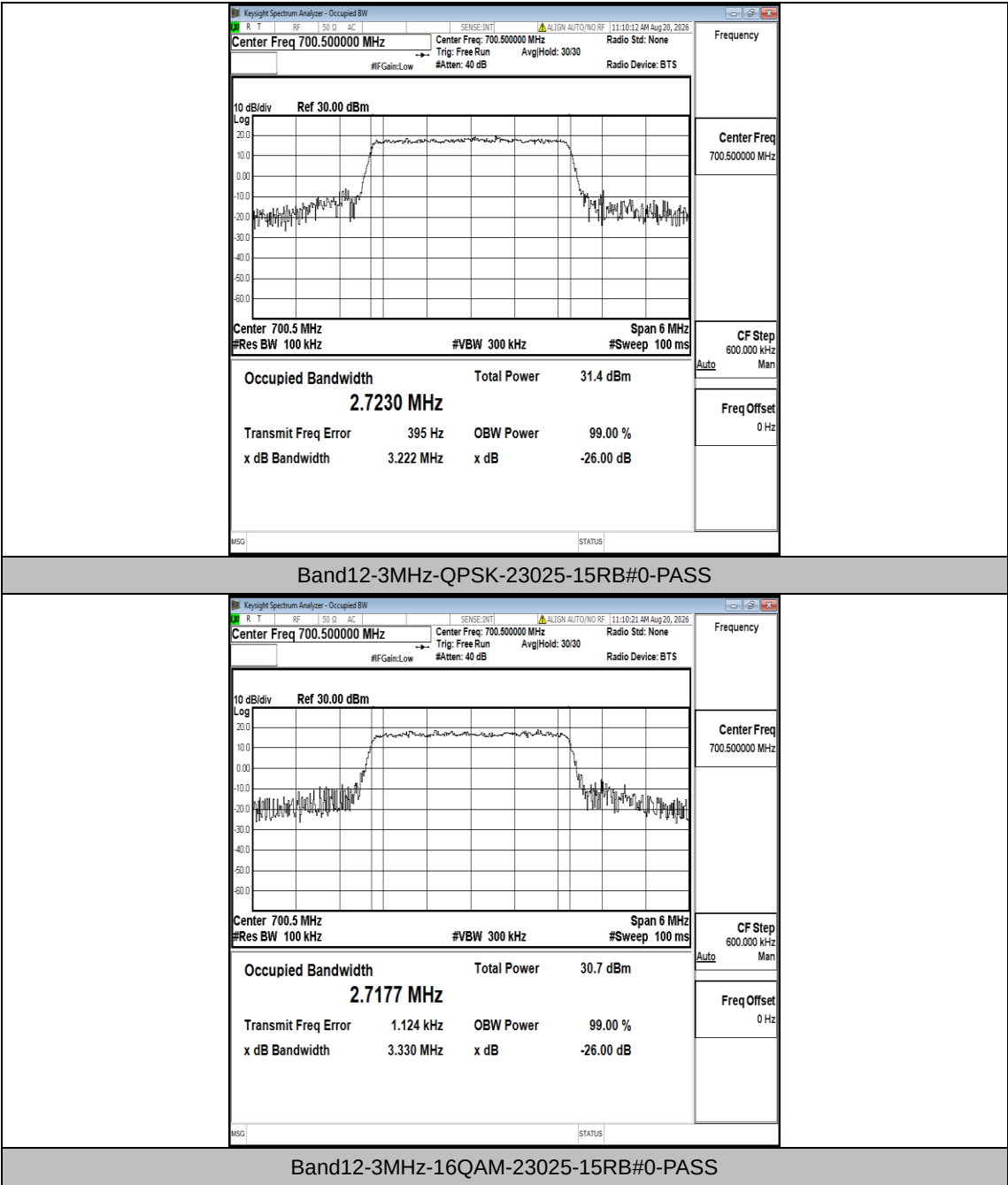
Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band12	1.4MHz	QPSK	23017	6RB#0	1.0856	1.294	PASS
Band12	1.4MHz	16QAM	23017	6RB#0	1.0989	1.302	PASS
Band12	1.4MHz	QPSK	23095	6RB#0	1.0869	1.277	PASS
Band12	1.4MHz	16QAM	23095	6RB#0	1.0965	1.295	PASS
Band12	1.4MHz	QPSK	23173	6RB#0	1.0884	1.285	PASS
Band12	1.4MHz	16QAM	23173	6RB#0	1.0976	1.296	PASS
Band12	3MHz	QPSK	23025	15RB#0	2.7230	3.222	PASS
Band12	3MHz	16QAM	23025	15RB#0	2.7177	3.330	PASS
Band12	3MHz	QPSK	23095	15RB#0	2.7224	2.990	PASS
Band12	3MHz	16QAM	23095	15RB#0	2.7151	3.001	PASS
Band12	3MHz	QPSK	23165	15RB#0	2.7172	2.993	PASS
Band12	3MHz	16QAM	23165	15RB#0	2.7149	2.974	PASS
Band12	5MHz	QPSK	23035	25RB#0	4.5331	5.209	PASS
Band12	5MHz	16QAM	23035	25RB#0	4.5131	5.155	PASS
Band12	5MHz	QPSK	23095	25RB#0	4.5403	5.602	PASS
Band12	5MHz	16QAM	23095	25RB#0	4.5062	5.148	PASS
Band12	5MHz	QPSK	23155	25RB#0	4.5297	5.205	PASS
Band12	5MHz	16QAM	23155	25RB#0	4.5157	5.148	PASS
Band12	10MHz	QPSK	23060	50RB#0	9.0093	10.13	PASS
Band12	10MHz	16QAM	23060	50RB#0	9.0017	10.03	PASS
Band12	10MHz	QPSK	23095	50RB#0	9.0035	10.12	PASS
Band12	10MHz	16QAM	23095	50RB#0	9.0009	10.04	PASS
Band12	10MHz	QPSK	23130	50RB#0	9.0252	10.19	PASS
Band12	10MHz	16QAM	23130	50RB#0	8.9991	10.01	PASS

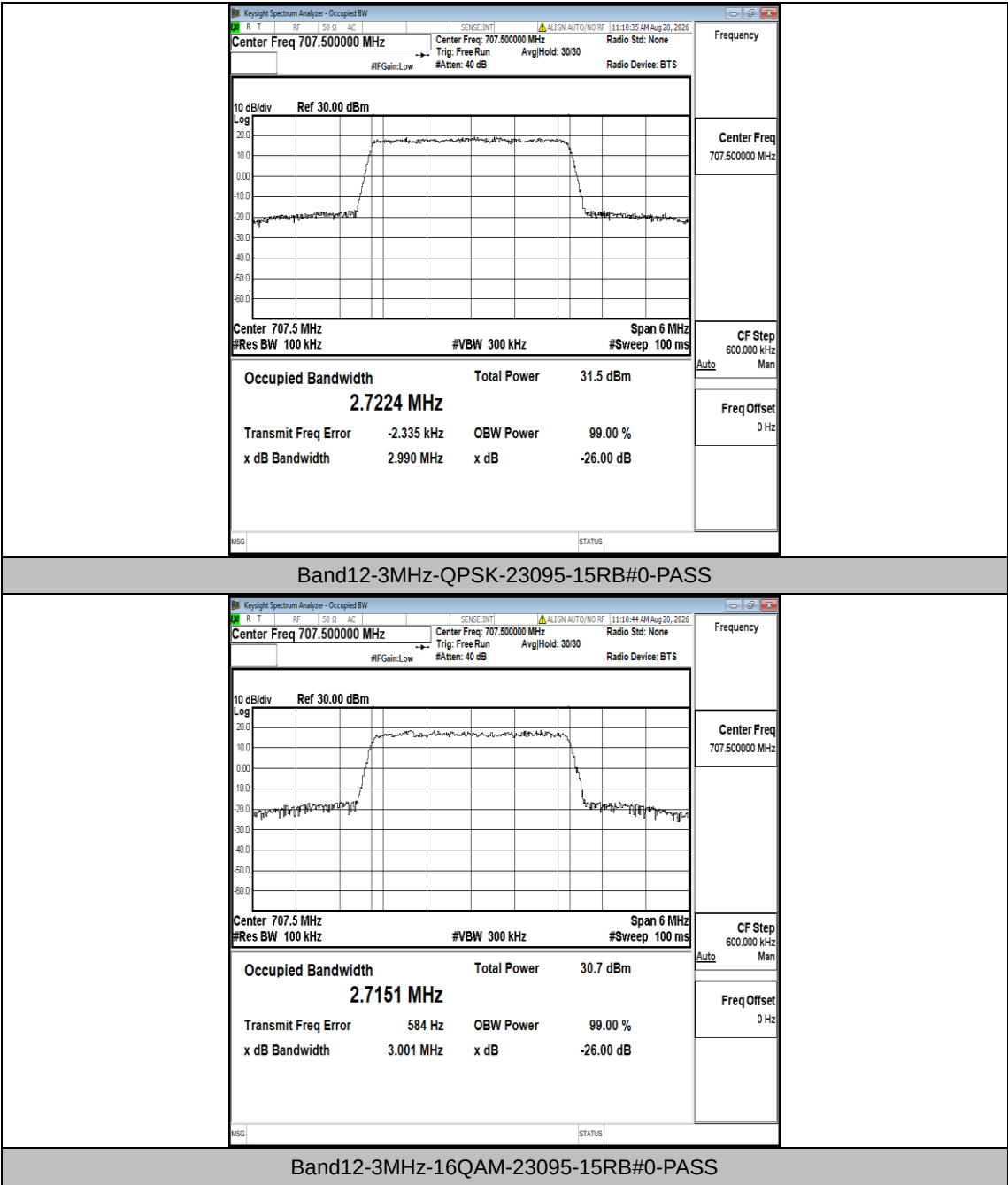
Test Graphs

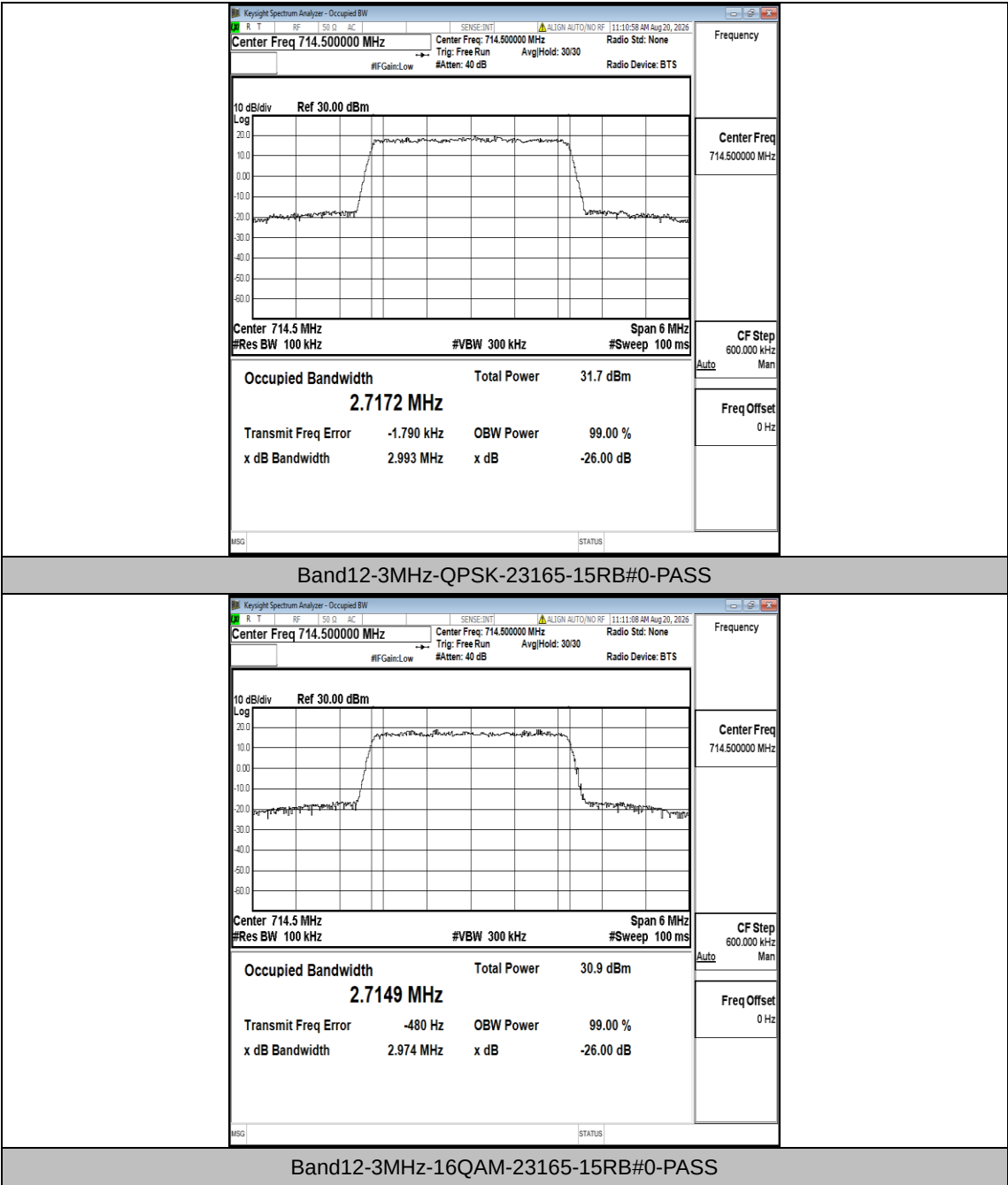


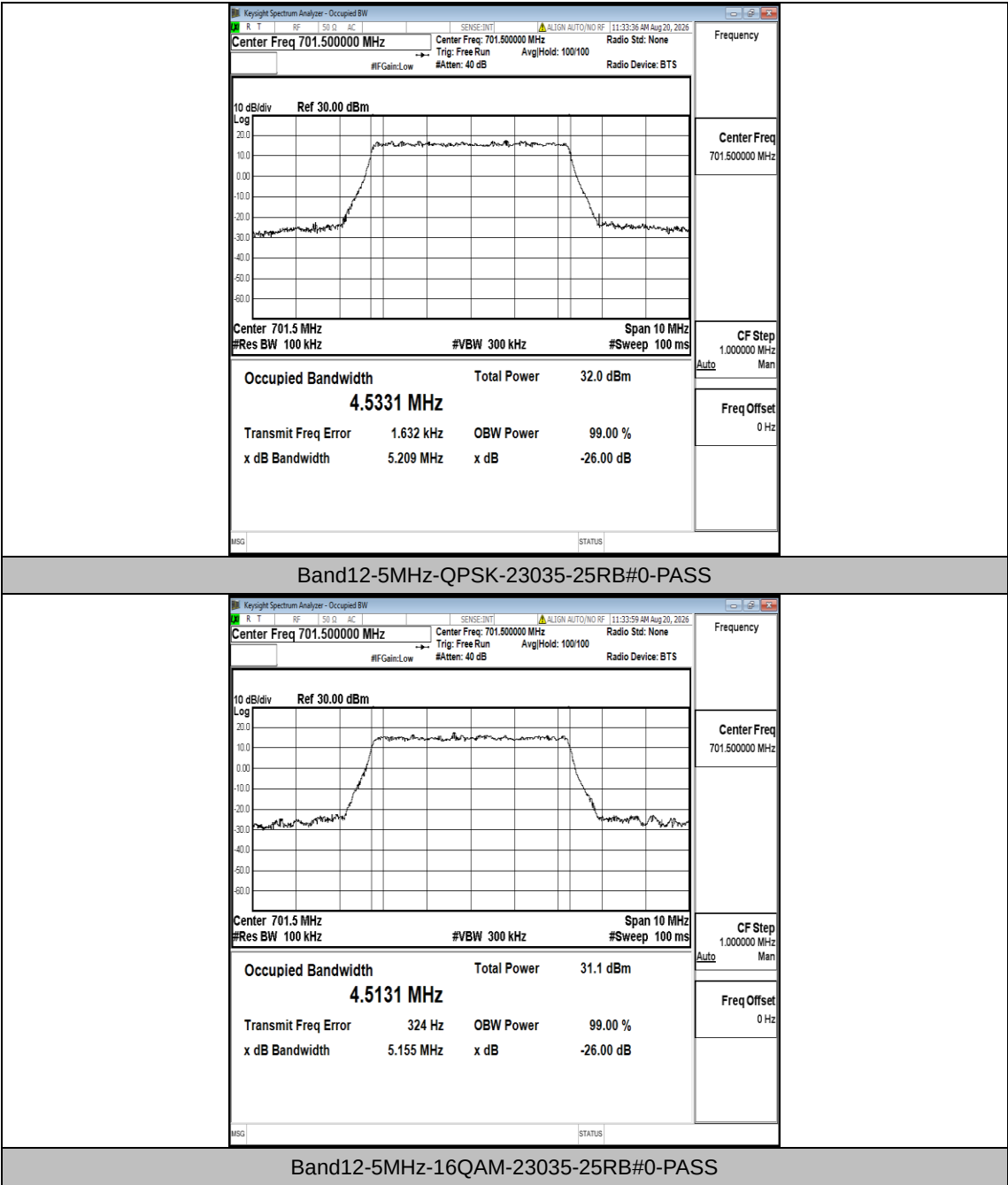


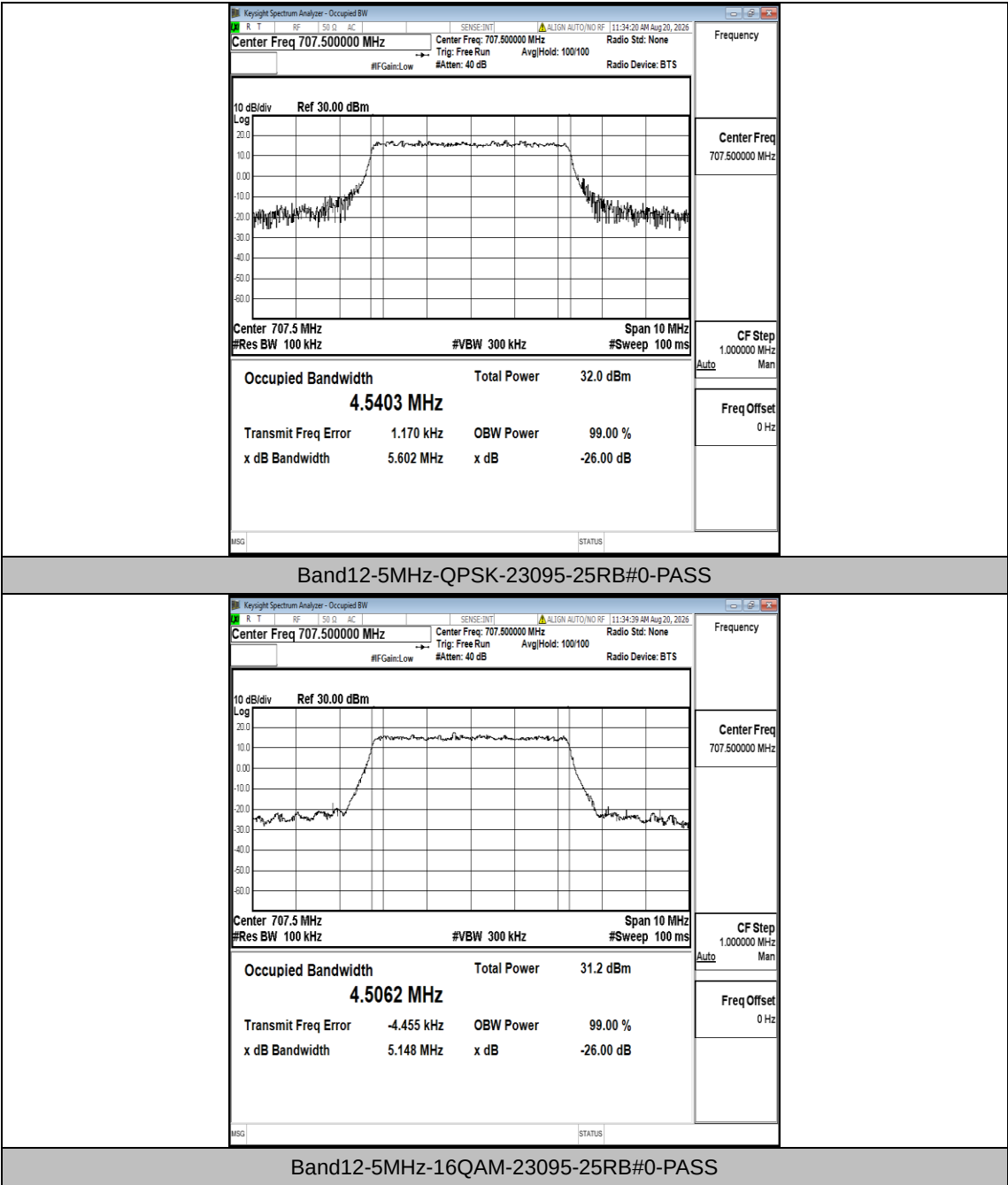


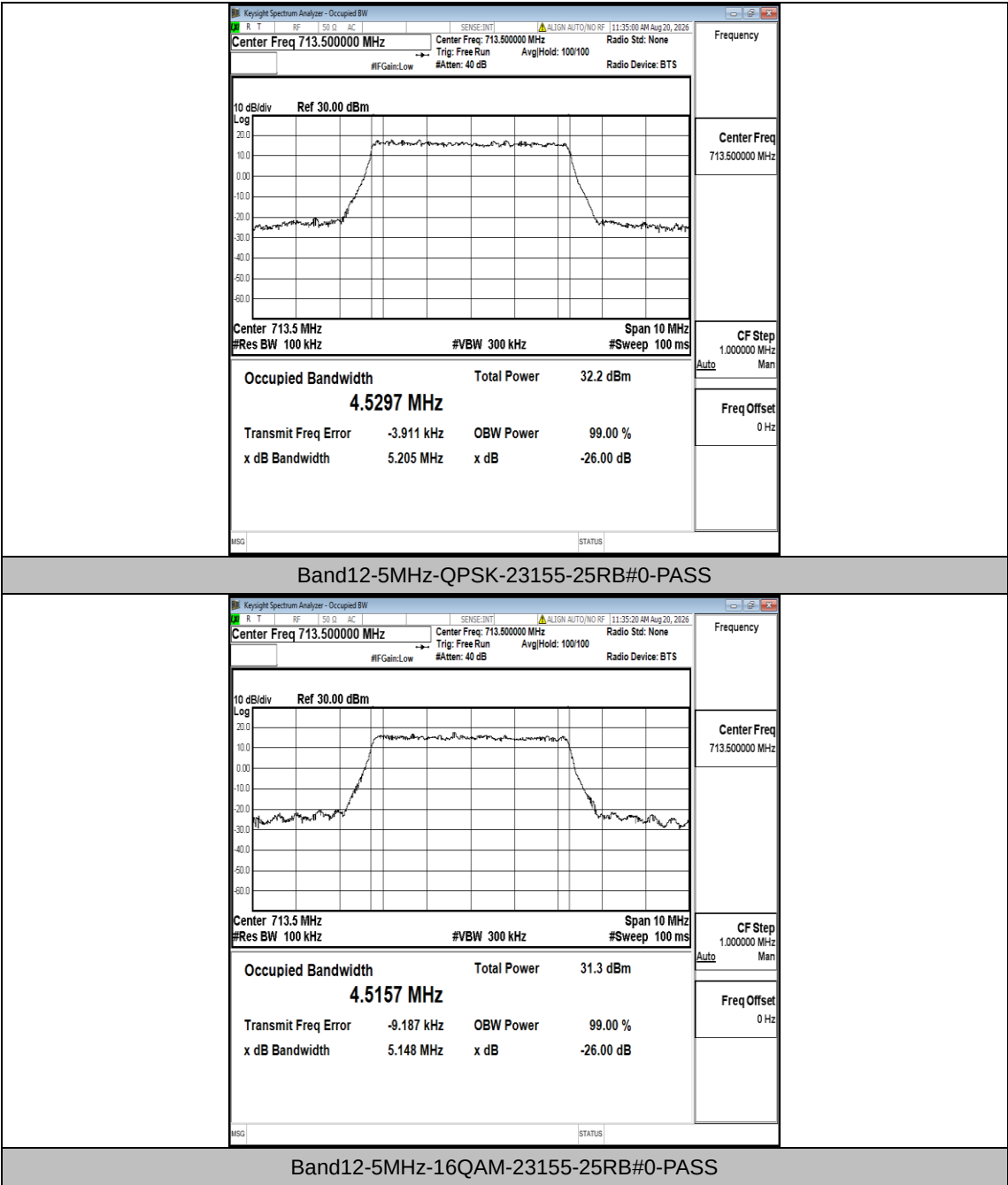


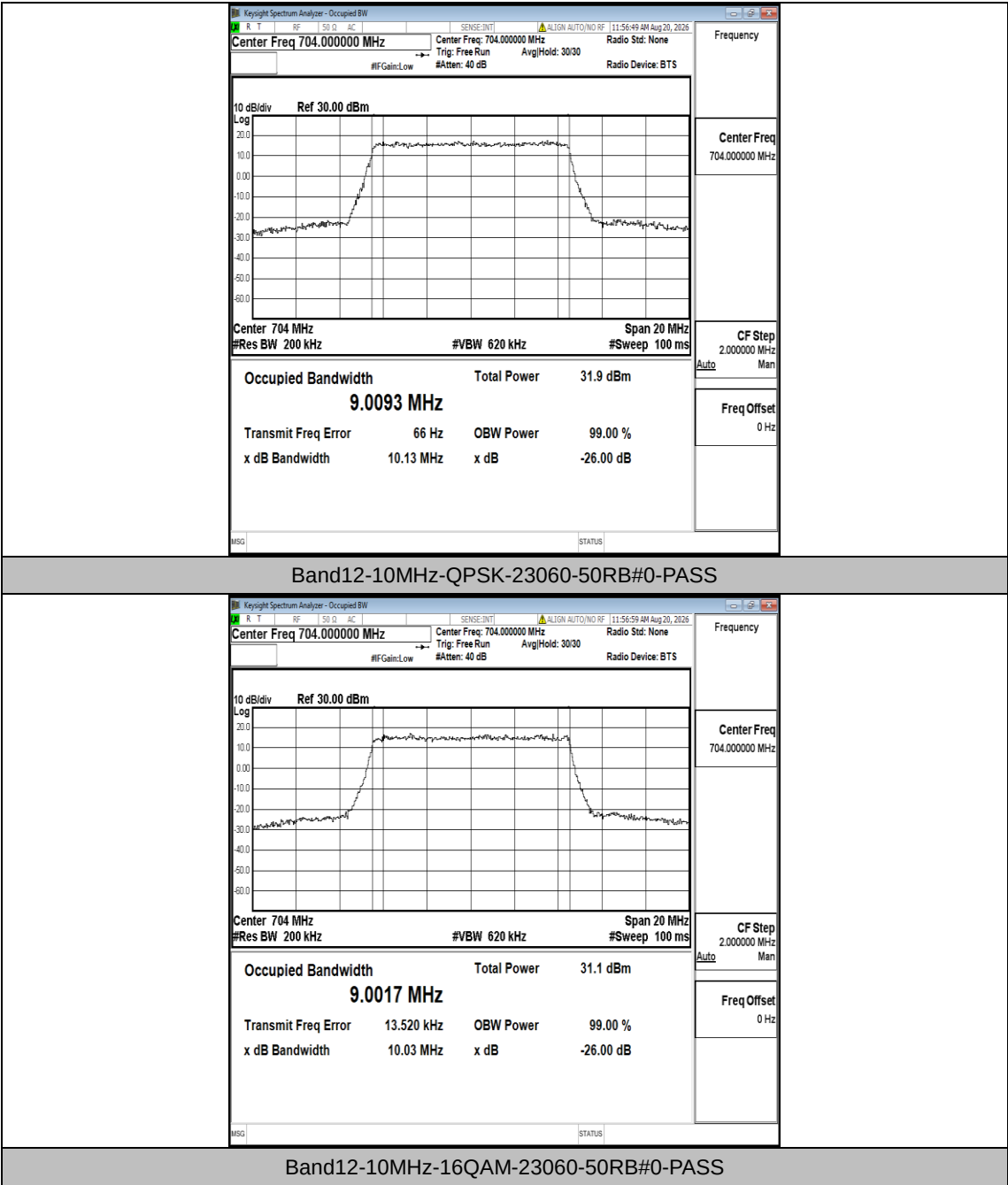


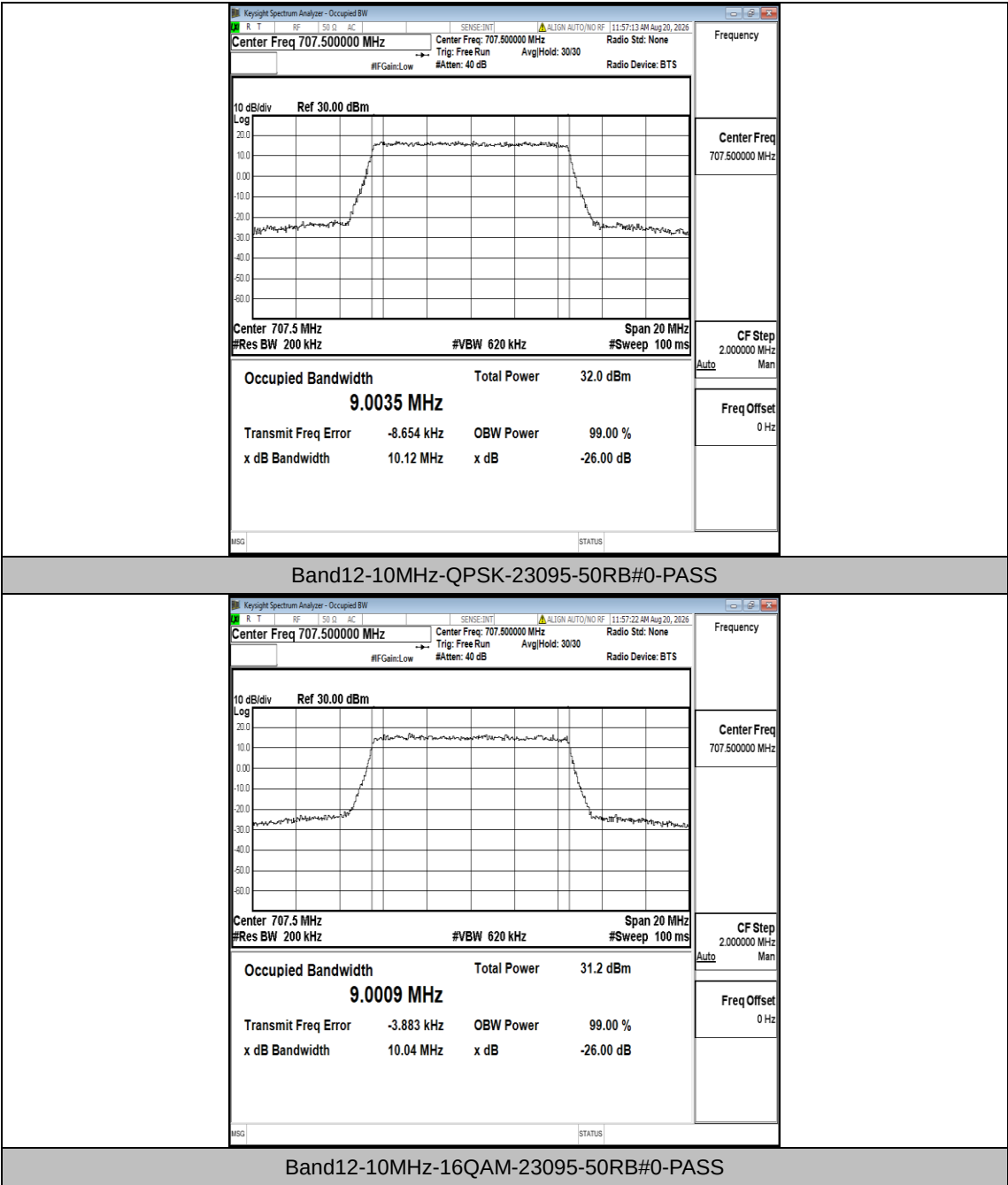


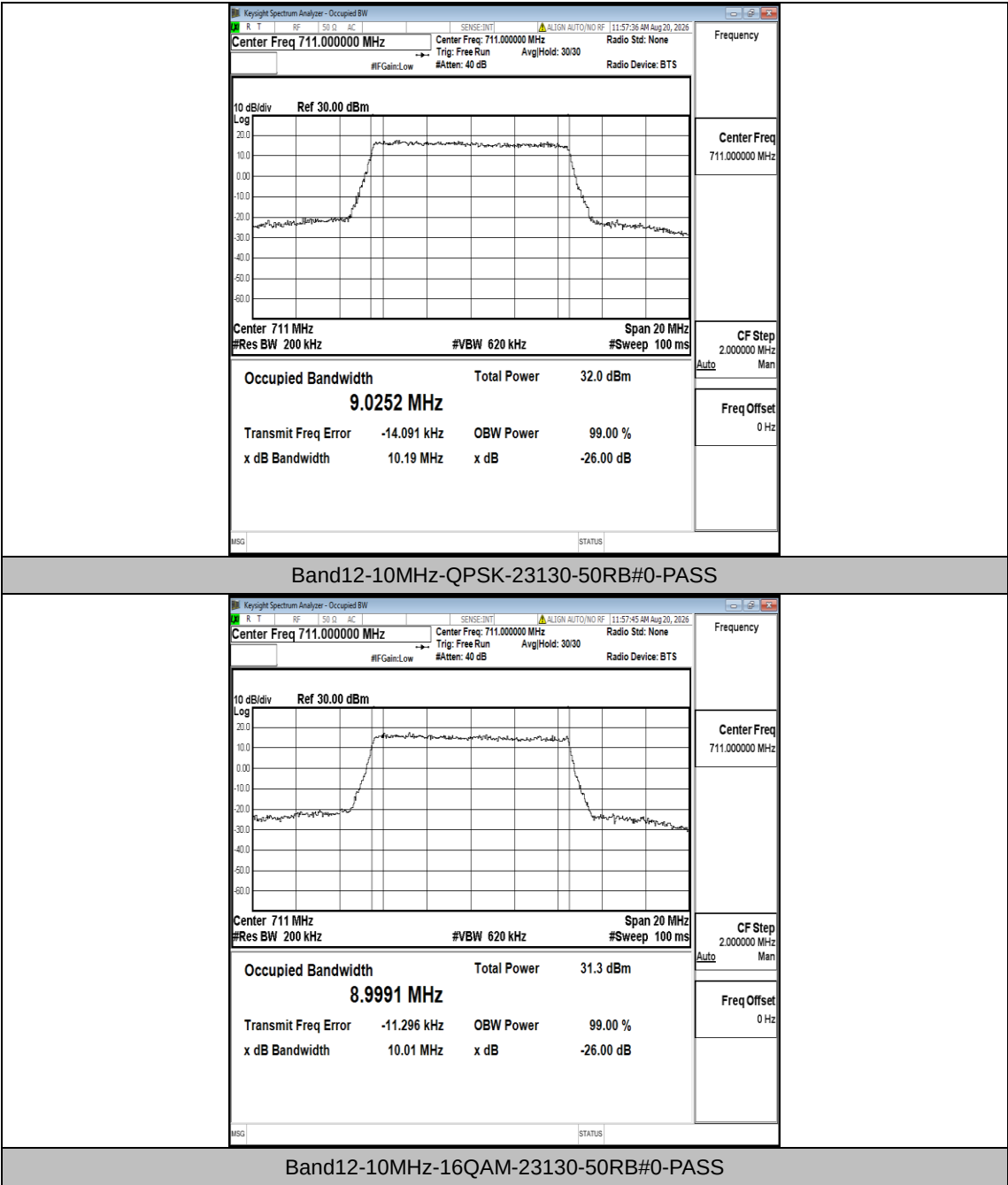












F.4 Band Edge

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Peak Frequency	Result(dBm)	Verdict
Band12	1.4MHz	QPSK	23017	6RB#0	699.00	-24.00	PASS
Band12	1.4MHz	16QAM	23017	6RB#0	699.00	-25.00	PASS
Band12	1.4MHz	QPSK	23173	6RB#0	716.00	-26.00	PASS
Band12	1.4MHz	16QAM	23173	6RB#0	716.00	-27.00	PASS
Band12	3MHz	QPSK	23025	15RB#0	699.00	-27.00	PASS
Band12	3MHz	16QAM	23025	15RB#0	699.00	-28.00	PASS
Band12	3MHz	QPSK	23165	15RB#0	716.00	-34.00	PASS
Band12	3MHz	16QAM	23165	15RB#0	716.00	-33.00	PASS
Band12	5MHz	QPSK	23035	25RB#0	699.00	-20.00	PASS
Band12	5MHz	16QAM	23035	25RB#0	699.00	-22.00	PASS
Band12	5MHz	QPSK	23155	25RB#0	716.00	-20.00	PASS
Band12	5MHz	16QAM	23155	25RB#0	716.00	-21.00	PASS
Band12	10MHz	QPSK	23060	50RB#0	699.00	-26.00	PASS
Band12	10MHz	16QAM	23060	50RB#0	699.00	-28.00	PASS
Band12	10MHz	QPSK	23130	50RB#0	716.00	-29.00	PASS
Band12	10MHz	16QAM	23130	50RB#0	716.00	-29.00	PASS

Test Graphs

