

Appendix-C LTE Band 12

Effective (Isotropic) Radiated Power Output Data

Test Result

Ant3:

Band	Bandwidth	Modulation	Channel	RB Configuration	Result (dBm)	ERP (dBm)	Limit (dBm)	Verdict
Band12	1.4MHz	QPSK	23017	1RB#0	23.98	16.53	34.77	PASS
Band12	1.4MHz	QPSK	23017	1RB#2	24.11	16.66	34.77	PASS
Band12	1.4MHz	QPSK	23017	1RB#5	24.03	16.58	34.77	PASS
Band12	1.4MHz	QPSK	23017	6RB#0	23.11	15.66	34.77	PASS
Band12	1.4MHz	16QAM	23017	1RB#0	22.97	15.52	34.77	PASS
Band12	1.4MHz	16QAM	23017	1RB#2	22.89	15.44	34.77	PASS
Band12	1.4MHz	16QAM	23017	1RB#5	23.03	15.58	34.77	PASS
Band12	1.4MHz	16QAM	23017	6RB#0	22.02	14.57	34.77	PASS
Band12	1.4MHz	64QAM	23017	1RB#0	22.1	14.65	34.77	PASS
Band12	1.4MHz	64QAM	23017	1RB#2	22.15	14.7	34.77	PASS
Band12	1.4MHz	64QAM	23017	1RB#5	22	14.55	34.77	PASS
Band12	1.4MHz	64QAM	23017	6RB#0	21.09	13.64	34.77	PASS
Band12	1.4MHz	QPSK	23095	1RB#0	23.86	16.41	34.77	PASS
Band12	1.4MHz	QPSK	23095	1RB#2	23.92	16.47	34.77	PASS
Band12	1.4MHz	QPSK	23095	1RB#5	23.9	16.45	34.77	PASS
Band12	1.4MHz	QPSK	23095	6RB#0	22.97	15.52	34.77	PASS
Band12	1.4MHz	16QAM	23095	1RB#0	23.09	15.64	34.77	PASS
Band12	1.4MHz	16QAM	23095	1RB#2	22.97	15.52	34.77	PASS
Band12	1.4MHz	16QAM	23095	1RB#5	23.23	15.78	34.77	PASS
Band12	1.4MHz	16QAM	23095	6RB#0	21.92	14.47	34.77	PASS
Band12	1.4MHz	64QAM	23095	1RB#0	21.92	14.47	34.77	PASS
Band12	1.4MHz	64QAM	23095	1RB#2	22.26	14.81	34.77	PASS
Band12	1.4MHz	64QAM	23095	1RB#5	22.49	15.04	34.77	PASS
Band12	1.4MHz	64QAM	23095	6RB#0	21.12	13.67	34.77	PASS
Band12	1.4MHz	QPSK	23173	1RB#0	23.54	16.09	34.77	PASS
Band12	1.4MHz	QPSK	23173	1RB#2	23.41	15.96	34.77	PASS
Band12	1.4MHz	QPSK	23173	1RB#5	23.22	15.77	34.77	PASS
Band12	1.4MHz	QPSK	23173	6RB#0	23.09	15.64	34.77	PASS
Band12	1.4MHz	16QAM	23173	1RB#0	23.09	15.64	34.77	PASS
Band12	1.4MHz	16QAM	23173	1RB#2	22.28	14.83	34.77	PASS
Band12	1.4MHz	16QAM	23173	1RB#5	22.22	14.77	34.77	PASS
Band12	1.4MHz	16QAM	23173	6RB#0	21.99	14.54	34.77	PASS
Band12	1.4MHz	64QAM	23173	1RB#0	22.21	14.76	34.77	PASS
Band12	1.4MHz	64QAM	23173	1RB#2	22.75	15.3	34.77	PASS
Band12	1.4MHz	64QAM	23173	1RB#5	22.08	14.63	34.77	PASS

Band12	1.4MHz	64QAM	23173	6RB#0	21.15	13.7	34.77	PASS
Band12	3MHz	QPSK	23025	1RB#0	24.02	16.57	34.77	PASS
Band12	3MHz	QPSK	23025	1RB#8	24.28	16.83	34.77	PASS
Band12	3MHz	QPSK	23025	1RB#14	24.07	16.62	34.77	PASS
Band12	3MHz	QPSK	23025	15RB#0	23.3	15.85	34.77	PASS
Band12	3MHz	16QAM	23025	1RB#0	23.14	15.69	34.77	PASS
Band12	3MHz	16QAM	23025	1RB#8	23.46	16.01	34.77	PASS
Band12	3MHz	16QAM	23025	1RB#14	23.27	15.82	34.77	PASS
Band12	3MHz	16QAM	23025	15RB#0	22.27	14.82	34.77	PASS
Band12	3MHz	64QAM	23025	1RB#0	21.96	14.51	34.77	PASS
Band12	3MHz	64QAM	23025	1RB#8	22.46	15.01	34.77	PASS
Band12	3MHz	64QAM	23025	1RB#14	22.35	14.9	34.77	PASS
Band12	3MHz	64QAM	23025	15RB#0	21.18	13.73	34.77	PASS
Band12	3MHz	QPSK	23095	1RB#0	24.32	16.87	34.77	PASS
Band12	3MHz	QPSK	23095	1RB#8	24.45	17	34.77	PASS
Band12	3MHz	QPSK	23095	1RB#14	23.95	16.5	34.77	PASS
Band12	3MHz	QPSK	23095	15RB#0	23.27	15.82	34.77	PASS
Band12	3MHz	16QAM	23095	1RB#0	23.15	15.7	34.77	PASS
Band12	3MHz	16QAM	23095	1RB#8	23.27	15.82	34.77	PASS
Band12	3MHz	16QAM	23095	1RB#14	23.22	15.77	34.77	PASS
Band12	3MHz	16QAM	23095	15RB#0	22.22	14.77	34.77	PASS
Band12	3MHz	64QAM	23095	1RB#0	22.19	14.74	34.77	PASS
Band12	3MHz	64QAM	23095	1RB#8	22.21	14.76	34.77	PASS
Band12	3MHz	64QAM	23095	1RB#14	22.23	14.78	34.77	PASS
Band12	3MHz	64QAM	23095	15RB#0	21	13.55	34.77	PASS
Band12	3MHz	QPSK	23165	1RB#0	24.18	16.73	34.77	PASS
Band12	3MHz	QPSK	23165	1RB#8	24.24	16.79	34.77	PASS
Band12	3MHz	QPSK	23165	1RB#14	23.82	16.37	34.77	PASS
Band12	3MHz	QPSK	23165	15RB#0	23.12	15.67	34.77	PASS
Band12	3MHz	16QAM	23165	1RB#0	23.35	15.9	34.77	PASS
Band12	3MHz	16QAM	23165	1RB#8	23.1	15.65	34.77	PASS
Band12	3MHz	16QAM	23165	1RB#14	23.07	15.62	34.77	PASS
Band12	3MHz	16QAM	23165	15RB#0	22.13	14.68	34.77	PASS
Band12	3MHz	64QAM	23165	1RB#0	22.46	15.01	34.77	PASS
Band12	3MHz	64QAM	23165	1RB#8	22.3	14.85	34.77	PASS
Band12	3MHz	64QAM	23165	1RB#14	22.3	14.85	34.77	PASS
Band12	3MHz	64QAM	23165	15RB#0	21.1	13.65	34.77	PASS
Band12	5MHz	QPSK	23035	1RB#0	24.41	16.96	34.77	PASS
Band12	5MHz	QPSK	23035	1RB#12	24.44	16.99	34.77	PASS
Band12	5MHz	QPSK	23035	1RB#24	24.13	16.68	34.77	PASS
Band12	5MHz	QPSK	23035	25RB#0	23.34	15.89	34.77	PASS
Band12	5MHz	16QAM	23035	1RB#0	23.47	16.02	34.77	PASS
Band12	5MHz	16QAM	23035	1RB#12	23.26	15.81	34.77	PASS
Band12	5MHz	16QAM	23035	1RB#24	23.17	15.72	34.77	PASS

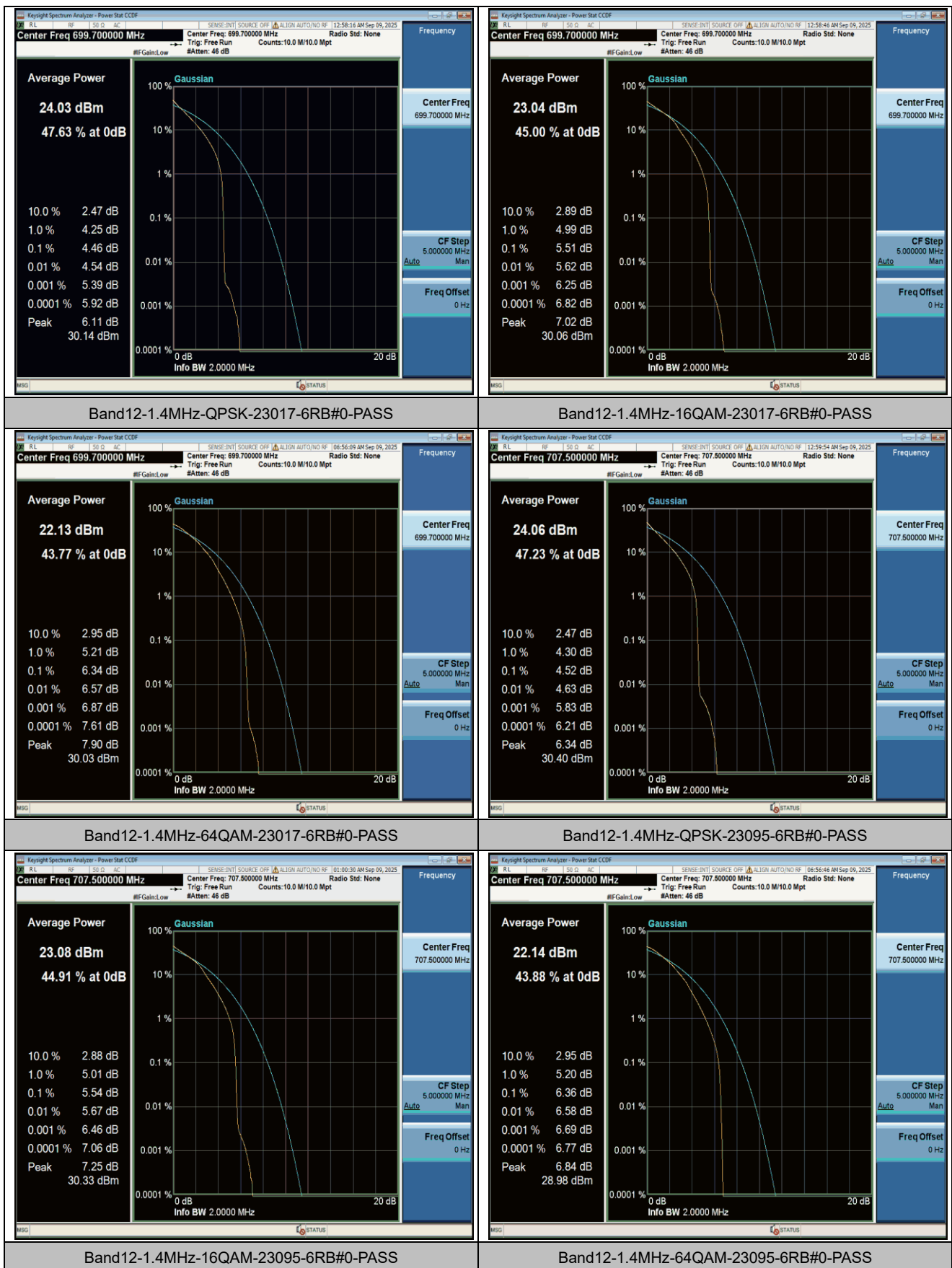
Band12	5MHz	16QAM	23035	25RB#0	22.33	14.88	34.77	PASS
Band12	5MHz	64QAM	23035	1RB#0	22.27	14.82	34.77	PASS
Band12	5MHz	64QAM	23035	1RB#12	22.46	15.01	34.77	PASS
Band12	5MHz	64QAM	23035	1RB#24	22.31	14.86	34.77	PASS
Band12	5MHz	64QAM	23035	25RB#0	21.17	13.72	34.77	PASS
Band12	5MHz	QPSK	23095	1RB#0	24.11	16.66	34.77	PASS
Band12	5MHz	QPSK	23095	1RB#12	24.2	16.75	34.77	PASS
Band12	5MHz	QPSK	23095	1RB#24	24.11	16.66	34.77	PASS
Band12	5MHz	QPSK	23095	25RB#0	23.21	15.76	34.77	PASS
Band12	5MHz	16QAM	23095	1RB#0	23.35	15.9	34.77	PASS
Band12	5MHz	16QAM	23095	1RB#12	23.32	15.87	34.77	PASS
Band12	5MHz	16QAM	23095	1RB#24	23.01	15.56	34.77	PASS
Band12	5MHz	16QAM	23095	25RB#0	22.26	14.81	34.77	PASS
Band12	5MHz	64QAM	23095	1RB#0	22.78	15.33	34.77	PASS
Band12	5MHz	64QAM	23095	1RB#12	22.32	14.87	34.77	PASS
Band12	5MHz	64QAM	23095	1RB#24	22.14	14.69	34.77	PASS
Band12	5MHz	64QAM	23095	25RB#0	21.02	13.57	34.77	PASS
Band12	5MHz	QPSK	23155	1RB#0	23.96	16.51	34.77	PASS
Band12	5MHz	QPSK	23155	1RB#12	24.08	16.63	34.77	PASS
Band12	5MHz	QPSK	23155	1RB#24	24.22	16.77	34.77	PASS
Band12	5MHz	QPSK	23155	25RB#0	23.26	15.81	34.77	PASS
Band12	5MHz	16QAM	23155	1RB#0	23.18	15.73	34.77	PASS
Band12	5MHz	16QAM	23155	1RB#12	23.26	15.81	34.77	PASS
Band12	5MHz	16QAM	23155	1RB#24	23.18	15.73	34.77	PASS
Band12	5MHz	16QAM	23155	25RB#0	22.19	14.74	34.77	PASS
Band12	5MHz	64QAM	23155	1RB#0	22.96	15.51	34.77	PASS
Band12	5MHz	64QAM	23155	1RB#12	22.31	14.86	34.77	PASS
Band12	5MHz	64QAM	23155	1RB#24	22.2	14.75	34.77	PASS
Band12	5MHz	64QAM	23155	25RB#0	21.04	13.59	34.77	PASS
Band12	10MHz	QPSK	23060	1RB#0	24.5	17.05	34.77	PASS
Band12	10MHz	QPSK	23060	1RB#24	24.12	16.67	34.77	PASS
Band12	10MHz	QPSK	23060	1RB#49	24.12	16.67	34.77	PASS
Band12	10MHz	QPSK	23060	50RB#0	23.33	15.88	34.77	PASS
Band12	10MHz	16QAM	23060	1RB#0	23.29	15.84	34.77	PASS
Band12	10MHz	16QAM	23060	1RB#24	23.25	15.8	34.77	PASS
Band12	10MHz	16QAM	23060	1RB#49	23.16	15.71	34.77	PASS
Band12	10MHz	16QAM	23060	50RB#0	22.35	14.9	34.77	PASS
Band12	10MHz	64QAM	23060	1RB#0	22.35	14.9	34.77	PASS
Band12	10MHz	64QAM	23060	1RB#24	22.52	15.07	34.77	PASS
Band12	10MHz	64QAM	23060	1RB#49	22.12	14.67	34.77	PASS
Band12	10MHz	64QAM	23060	50RB#0	21.13	13.68	34.77	PASS
Band12	10MHz	QPSK	23095	1RB#0	24.37	16.92	34.77	PASS
Band12	10MHz	QPSK	23095	1RB#24	24.23	16.78	34.77	PASS
Band12	10MHz	QPSK	23095	1RB#49	24.1	16.65	34.77	PASS

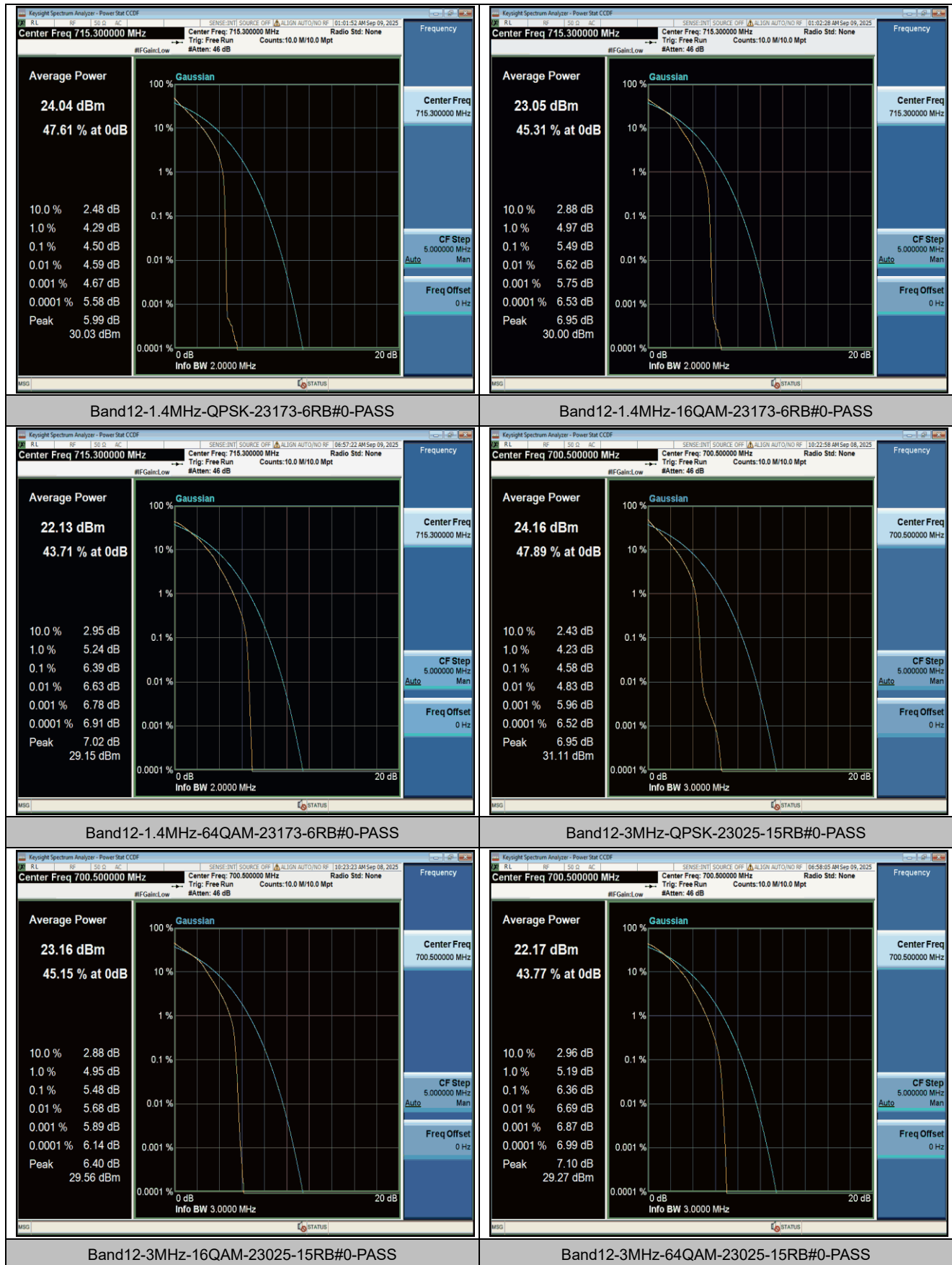
Band12	10MHz	QPSK	23095	50RB#0	23.21	15.76	34.77	PASS
Band12	10MHz	16QAM	23095	1RB#0	23.37	15.92	34.77	PASS
Band12	10MHz	16QAM	23095	1RB#24	23.27	15.82	34.77	PASS
Band12	10MHz	16QAM	23095	1RB#49	23.15	15.7	34.77	PASS
Band12	10MHz	16QAM	23095	50RB#0	22.35	14.9	34.77	PASS
Band12	10MHz	64QAM	23095	1RB#0	22.23	14.78	34.77	PASS
Band12	10MHz	64QAM	23095	1RB#24	22.16	14.71	34.77	PASS
Band12	10MHz	64QAM	23095	1RB#49	22.34	14.89	34.77	PASS
Band12	10MHz	64QAM	23095	50RB#0	21.09	13.64	34.77	PASS
Band12	10MHz	QPSK	23130	1RB#0	24.23	16.78	34.77	PASS
Band12	10MHz	QPSK	23130	1RB#24	24.17	16.72	34.77	PASS
Band12	10MHz	QPSK	23130	1RB#49	24.01	16.56	34.77	PASS
Band12	10MHz	QPSK	23130	50RB#0	23.25	15.8	34.77	PASS
Band12	10MHz	16QAM	23130	1RB#0	23.21	15.76	34.77	PASS
Band12	10MHz	16QAM	23130	1RB#24	23.08	15.63	34.77	PASS
Band12	10MHz	16QAM	23130	1RB#49	23.25	15.8	34.77	PASS
Band12	10MHz	16QAM	23130	50RB#0	22.28	14.83	34.77	PASS
Band12	10MHz	64QAM	23130	1RB#0	22.11	14.66	34.77	PASS
Band12	10MHz	64QAM	23130	1RB#24	22.55	15.1	34.77	PASS
Band12	10MHz	64QAM	23130	1RB#49	22.22	14.77	34.77	PASS
Band12	10MHz	64QAM	23130	50RB#0	21.1	13.65	34.77	PASS

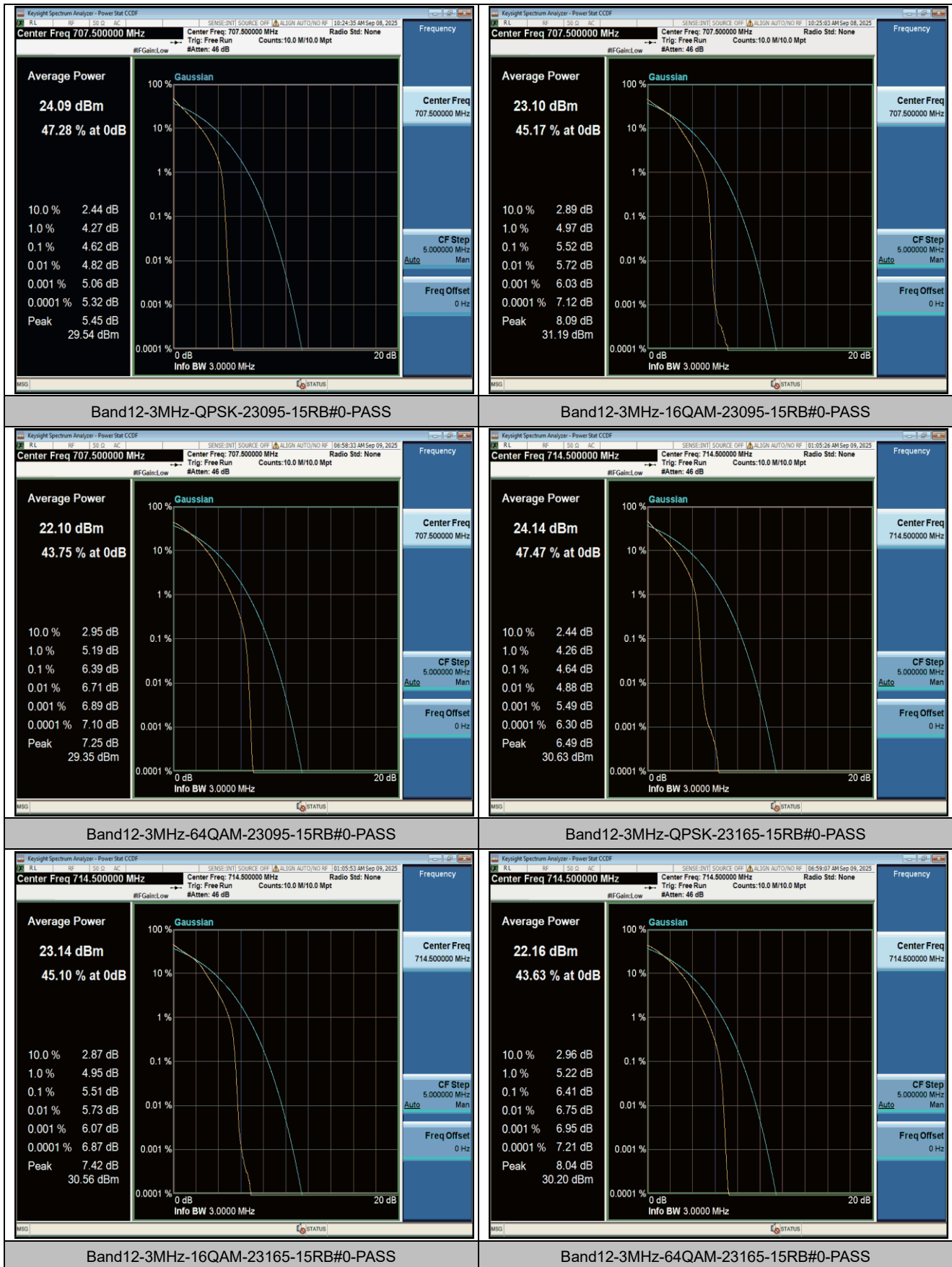
Peak-to-Average Ratio(CCDF)**Test Result**

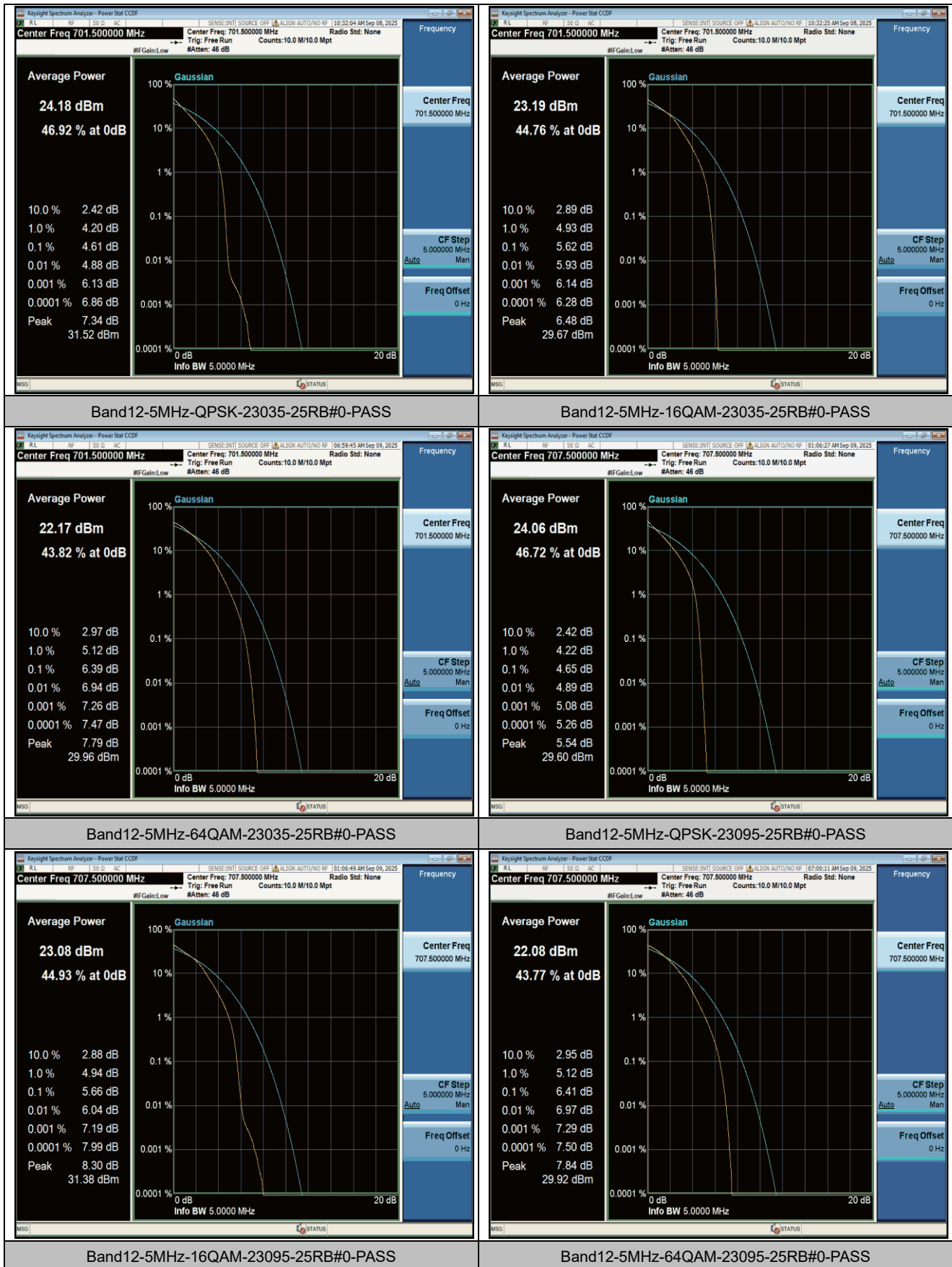
Band	Bandwidth	Modulation	Channel	RB Configuration	Result (dB)	Limit (dB)	Verdict
Band12	1.4MHz	QPSK	23017	6RB#0	4.46	13	PASS
Band12	1.4MHz	16QAM	23017	6RB#0	5.51	13	PASS
Band12	1.4MHz	64QAM	23017	6RB#0	6.34	13	PASS
Band12	1.4MHz	QPSK	23095	6RB#0	4.52	13	PASS
Band12	1.4MHz	16QAM	23095	6RB#0	5.54	13	PASS
Band12	1.4MHz	64QAM	23095	6RB#0	6.36	13	PASS
Band12	1.4MHz	QPSK	23173	6RB#0	4.50	13	PASS
Band12	1.4MHz	16QAM	23173	6RB#0	5.49	13	PASS
Band12	1.4MHz	64QAM	23173	6RB#0	6.39	13	PASS
Band12	3MHz	QPSK	23025	15RB#0	4.58	13	PASS
Band12	3MHz	16QAM	23025	15RB#0	5.48	13	PASS
Band12	3MHz	64QAM	23025	15RB#0	6.36	13	PASS
Band12	3MHz	QPSK	23095	15RB#0	4.62	13	PASS
Band12	3MHz	16QAM	23095	15RB#0	5.52	13	PASS
Band12	3MHz	64QAM	23095	15RB#0	6.39	13	PASS
Band12	3MHz	QPSK	23165	15RB#0	4.64	13	PASS
Band12	3MHz	16QAM	23165	15RB#0	5.51	13	PASS
Band12	3MHz	64QAM	23165	15RB#0	6.41	13	PASS
Band12	5MHz	QPSK	23035	25RB#0	4.61	13	PASS
Band12	5MHz	16QAM	23035	25RB#0	5.62	13	PASS
Band12	5MHz	64QAM	23035	25RB#0	6.39	13	PASS
Band12	5MHz	QPSK	23095	25RB#0	4.65	13	PASS
Band12	5MHz	16QAM	23095	25RB#0	5.66	13	PASS
Band12	5MHz	64QAM	23095	25RB#0	6.41	13	PASS
Band12	5MHz	QPSK	23155	25RB#0	4.71	13	PASS
Band12	5MHz	16QAM	23155	25RB#0	5.67	13	PASS
Band12	5MHz	64QAM	23155	25RB#0	6.44	13	PASS
Band12	10MHz	QPSK	23060	50RB#0	4.68	13	PASS
Band12	10MHz	16QAM	23060	50RB#0	5.47	13	PASS
Band12	10MHz	64QAM	23060	50RB#0	6.45	13	PASS
Band12	10MHz	QPSK	23095	50RB#0	4.47	13	PASS
Band12	10MHz	16QAM	23095	50RB#0	5.39	13	PASS
Band12	10MHz	64QAM	23095	50RB#0	6.29	13	PASS
Band12	10MHz	QPSK	23130	50RB#0	4.39	13	PASS
Band12	10MHz	16QAM	23130	50RB#0	5.34	13	PASS
Band12	10MHz	64QAM	23130	50RB#0	6.22	13	PASS

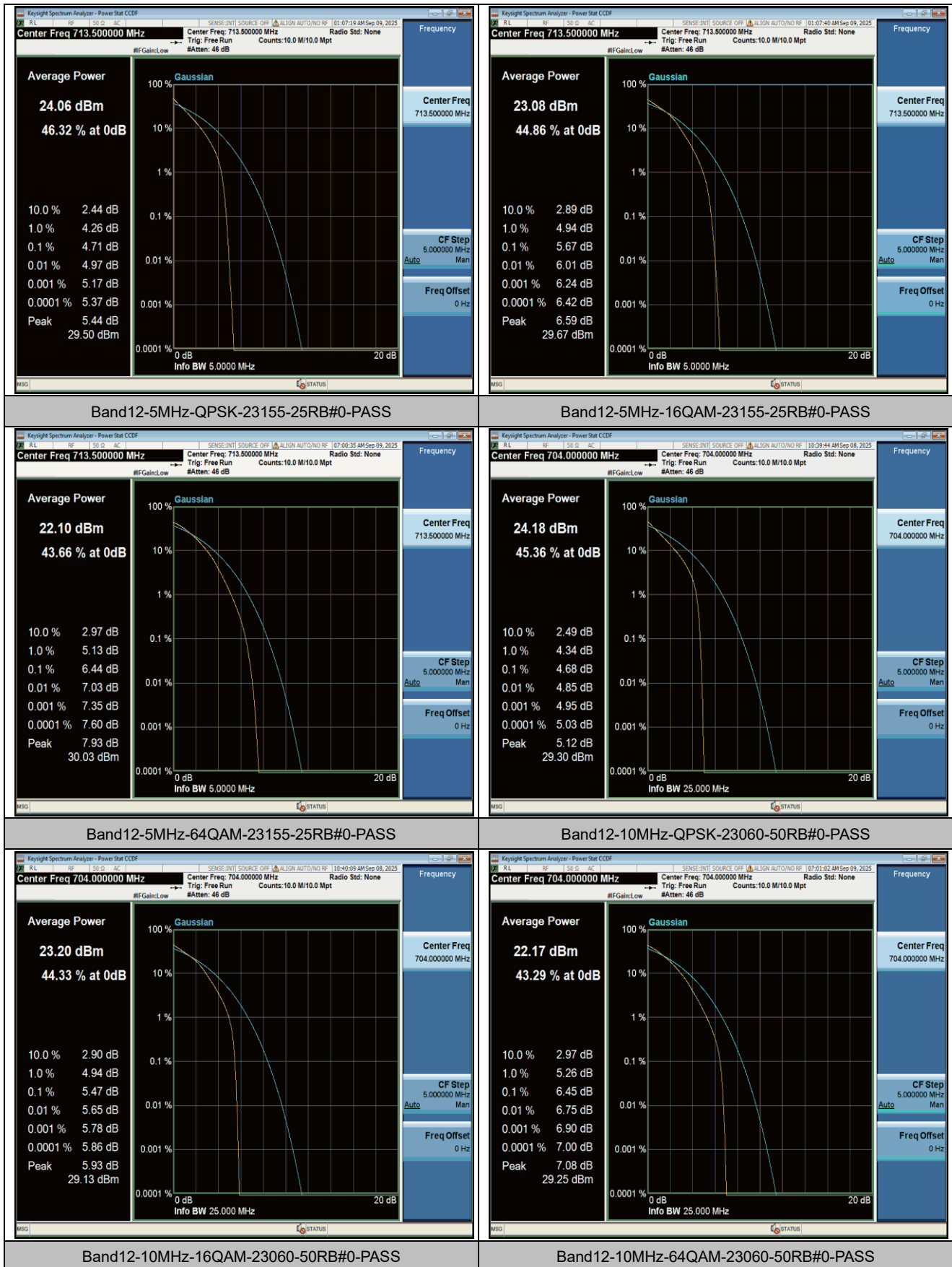
Test Graphs

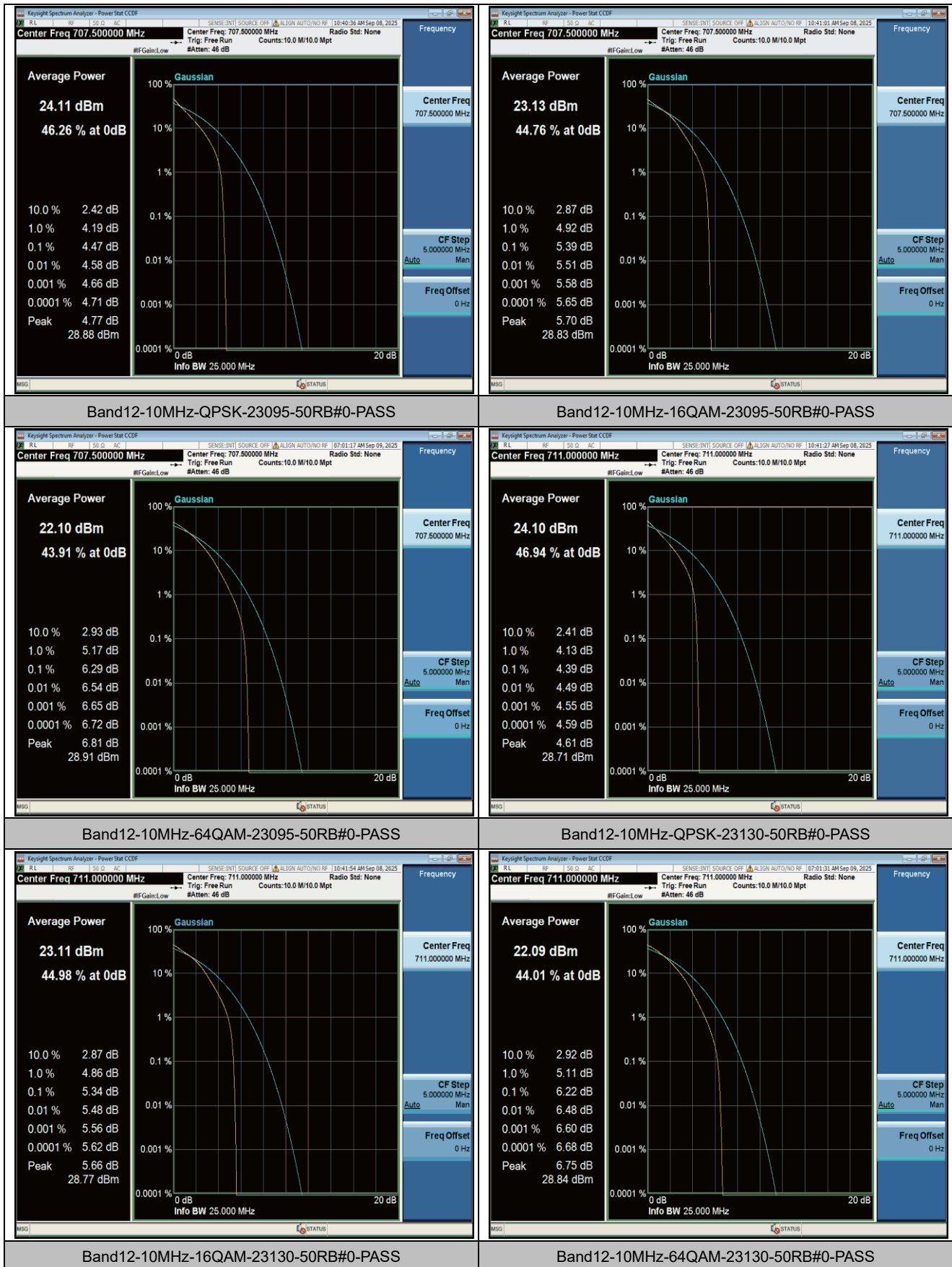










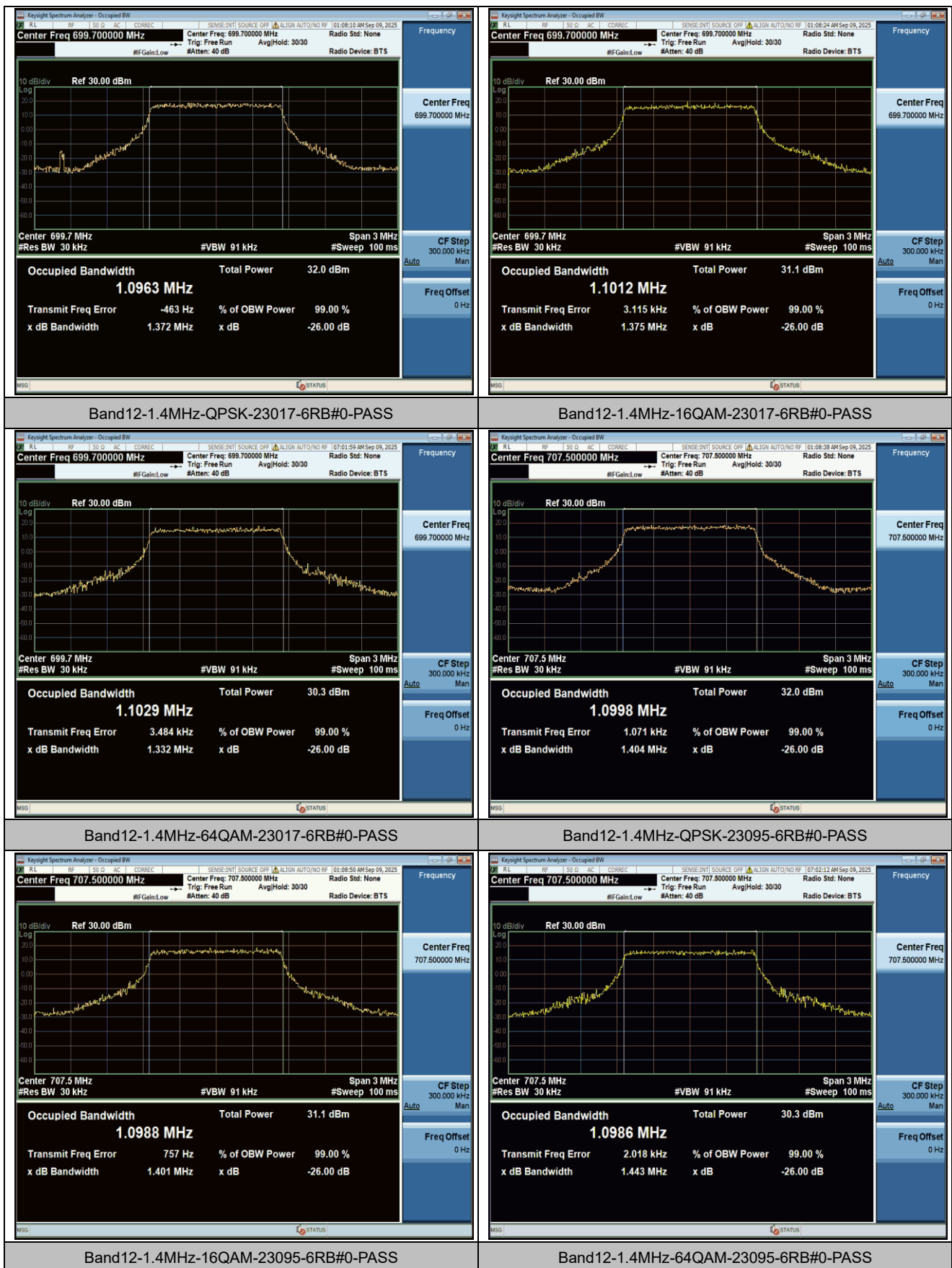


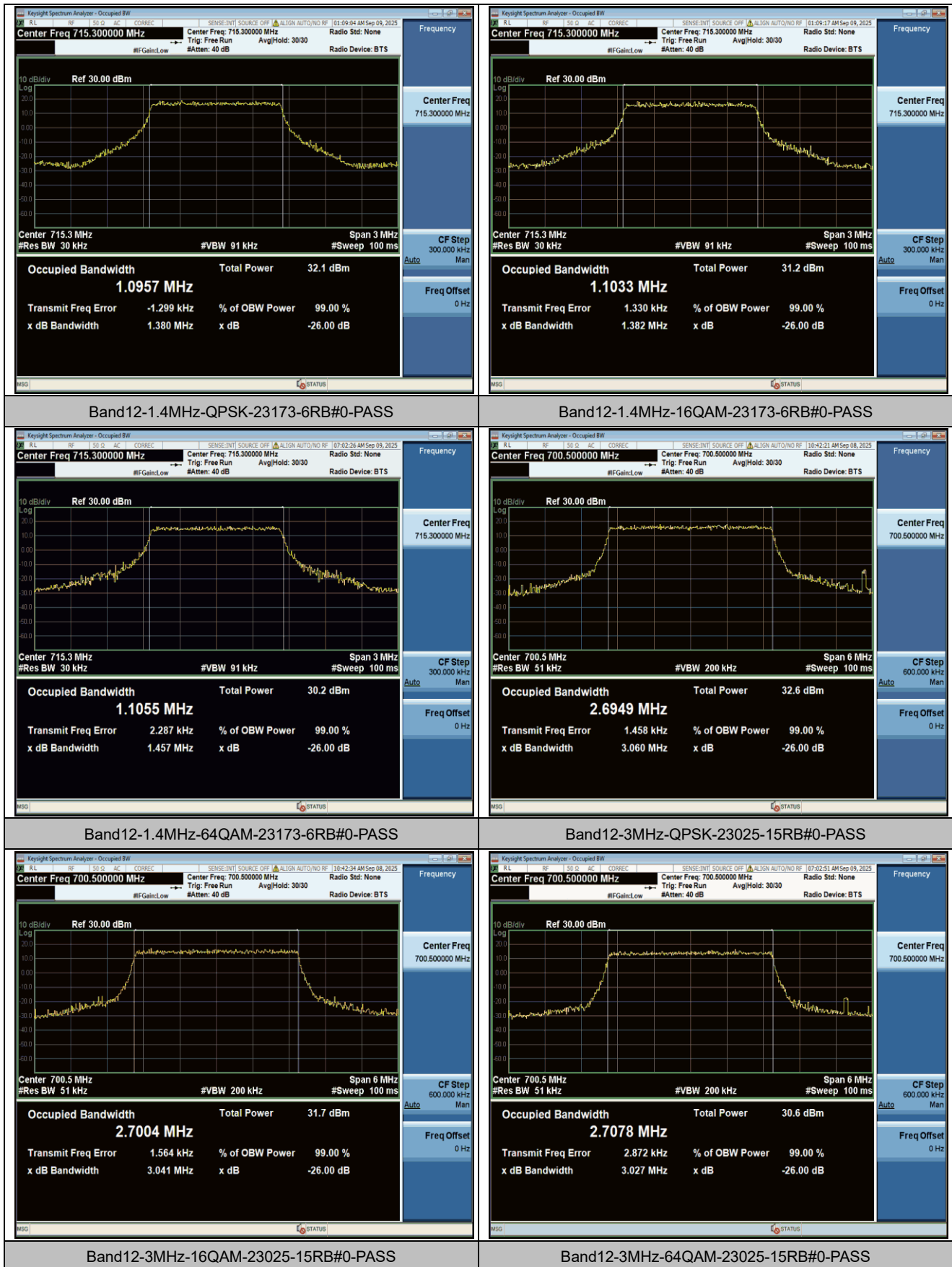
26dB Bandwidth and Occupied Bandwidth

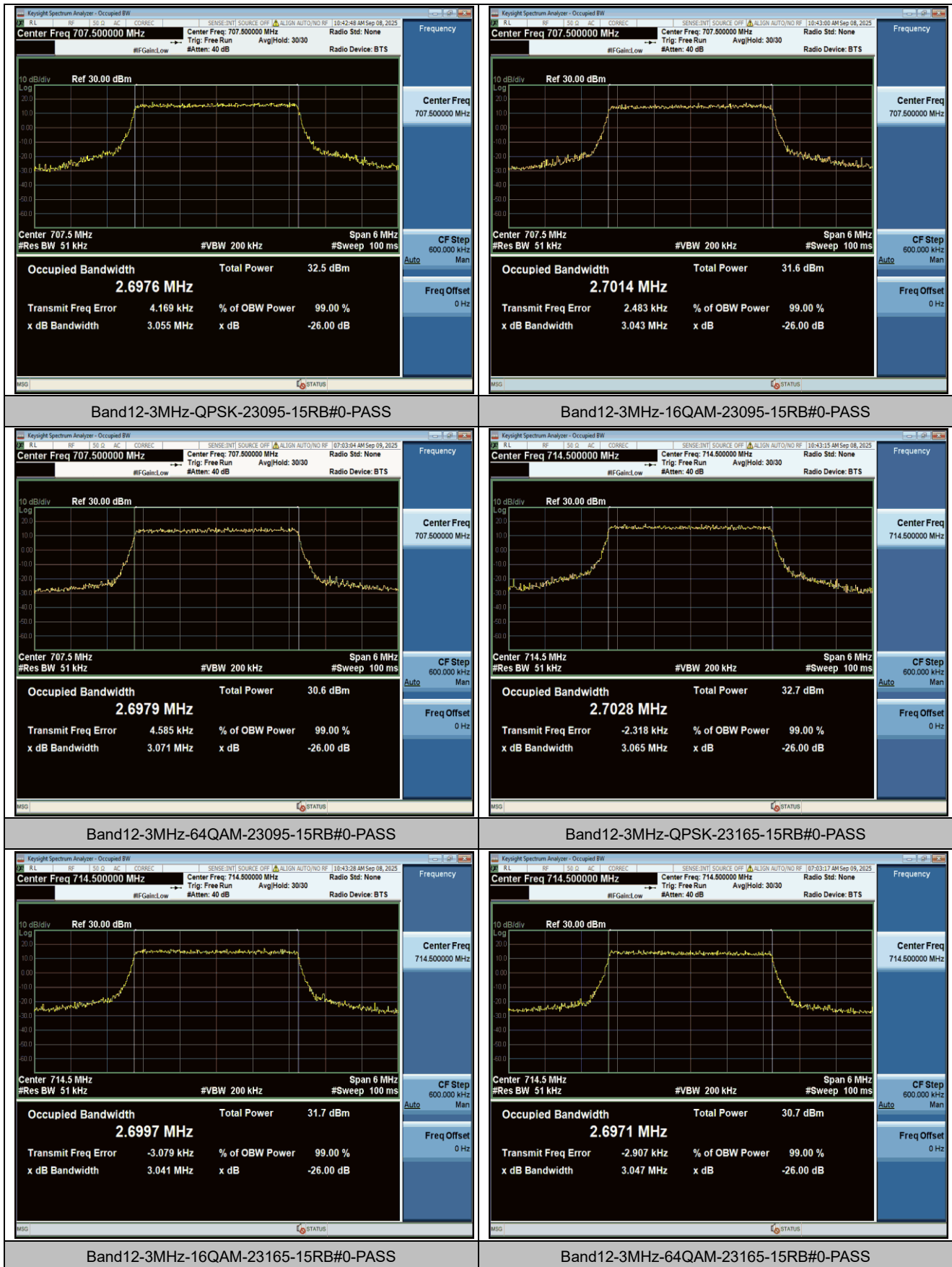
Test Result

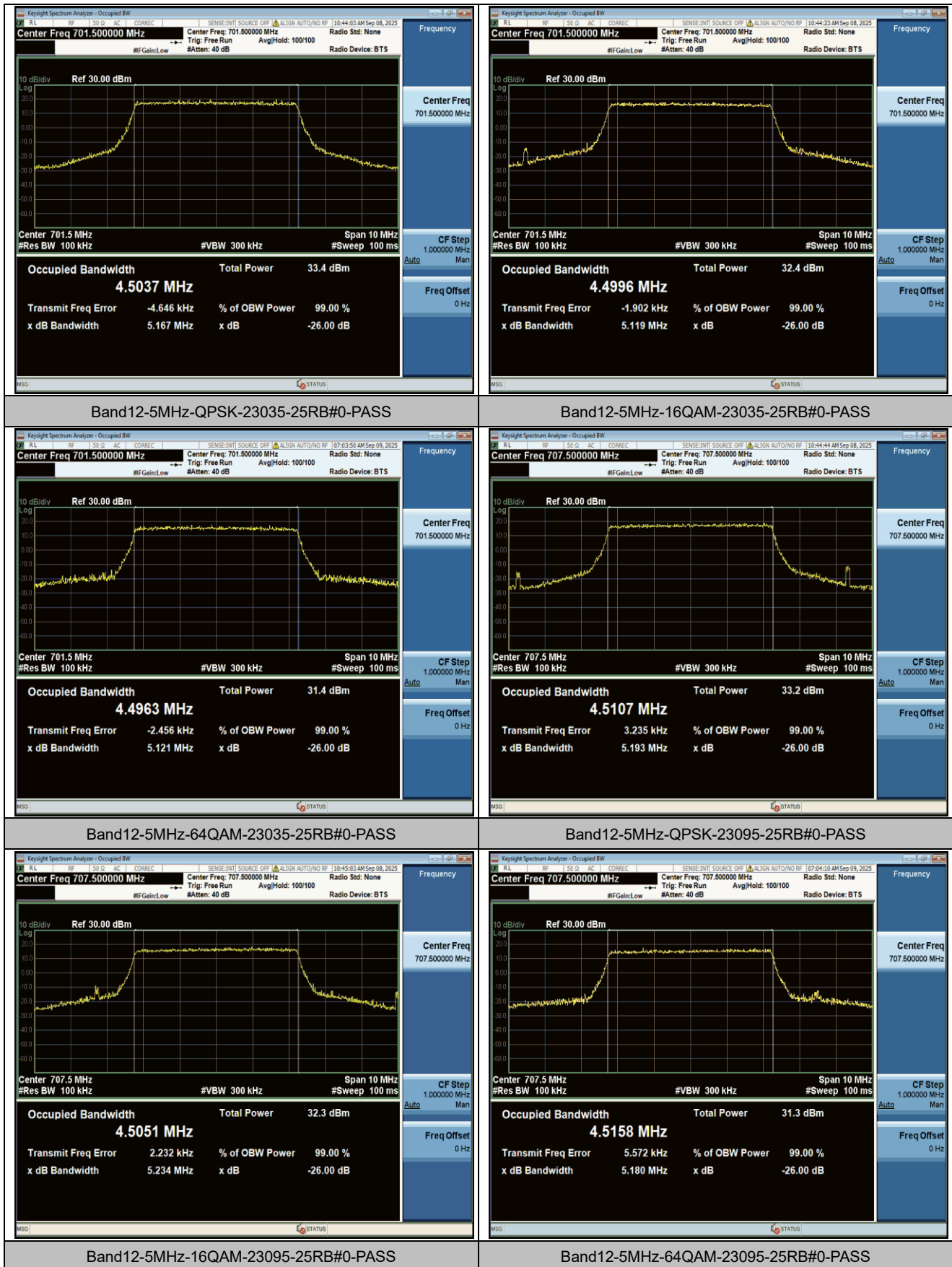
Band	Bandwidth	Modulation	Channel	RB Configuration	OBW (MHz)	26dB EBW (MHz)	Verdict
Band12	1.4MHz	QPSK	23017	6RB#0	1.0963	1.372	PASS
Band12	1.4MHz	16QAM	23017	6RB#0	1.1012	1.375	PASS
Band12	1.4MHz	64QAM	23017	6RB#0	1.1029	1.332	PASS
Band12	1.4MHz	QPSK	23095	6RB#0	1.0998	1.404	PASS
Band12	1.4MHz	16QAM	23095	6RB#0	1.0988	1.401	PASS
Band12	1.4MHz	64QAM	23095	6RB#0	1.0986	1.443	PASS
Band12	1.4MHz	QPSK	23173	6RB#0	1.0957	1.380	PASS
Band12	1.4MHz	16QAM	23173	6RB#0	1.1033	1.382	PASS
Band12	1.4MHz	64QAM	23173	6RB#0	1.1055	1.457	PASS
Band12	3MHz	QPSK	23025	15RB#0	2.6949	3.060	PASS
Band12	3MHz	16QAM	23025	15RB#0	2.7004	3.041	PASS
Band12	3MHz	64QAM	23025	15RB#0	2.7078	3.027	PASS
Band12	3MHz	QPSK	23095	15RB#0	2.6976	3.055	PASS
Band12	3MHz	16QAM	23095	15RB#0	2.7014	3.043	PASS
Band12	3MHz	64QAM	23095	15RB#0	2.6979	3.071	PASS
Band12	3MHz	QPSK	23165	15RB#0	2.7028	3.065	PASS
Band12	3MHz	16QAM	23165	15RB#0	2.6997	3.041	PASS
Band12	3MHz	64QAM	23165	15RB#0	2.6971	3.047	PASS
Band12	5MHz	QPSK	23035	25RB#0	4.5037	5.167	PASS
Band12	5MHz	16QAM	23035	25RB#0	4.4996	5.119	PASS
Band12	5MHz	64QAM	23035	25RB#0	4.4963	5.121	PASS
Band12	5MHz	QPSK	23095	25RB#0	4.5107	5.193	PASS
Band12	5MHz	16QAM	23095	25RB#0	4.5051	5.234	PASS
Band12	5MHz	64QAM	23095	25RB#0	4.5158	5.180	PASS
Band12	5MHz	QPSK	23155	25RB#0	4.5103	5.149	PASS
Band12	5MHz	16QAM	23155	25RB#0	4.5116	5.175	PASS
Band12	5MHz	64QAM	23155	25RB#0	4.5148	5.163	PASS
Band12	10MHz	QPSK	23060	50RB#0	9.0105	10.14	PASS
Band12	10MHz	16QAM	23060	50RB#0	9.0188	10.18	PASS
Band12	10MHz	64QAM	23060	50RB#0	9.0249	10.05	PASS
Band12	10MHz	QPSK	23095	50RB#0	9.0014	10.12	PASS
Band12	10MHz	16QAM	23095	50RB#0	9.0028	10.01	PASS
Band12	10MHz	64QAM	23095	50RB#0	9.0235	10.09	PASS
Band12	10MHz	QPSK	23130	50RB#0	8.9643	10.07	PASS
Band12	10MHz	16QAM	23130	50RB#0	8.9661	9.859	PASS
Band12	10MHz	64QAM	23130	50RB#0	8.9793	10.04	PASS

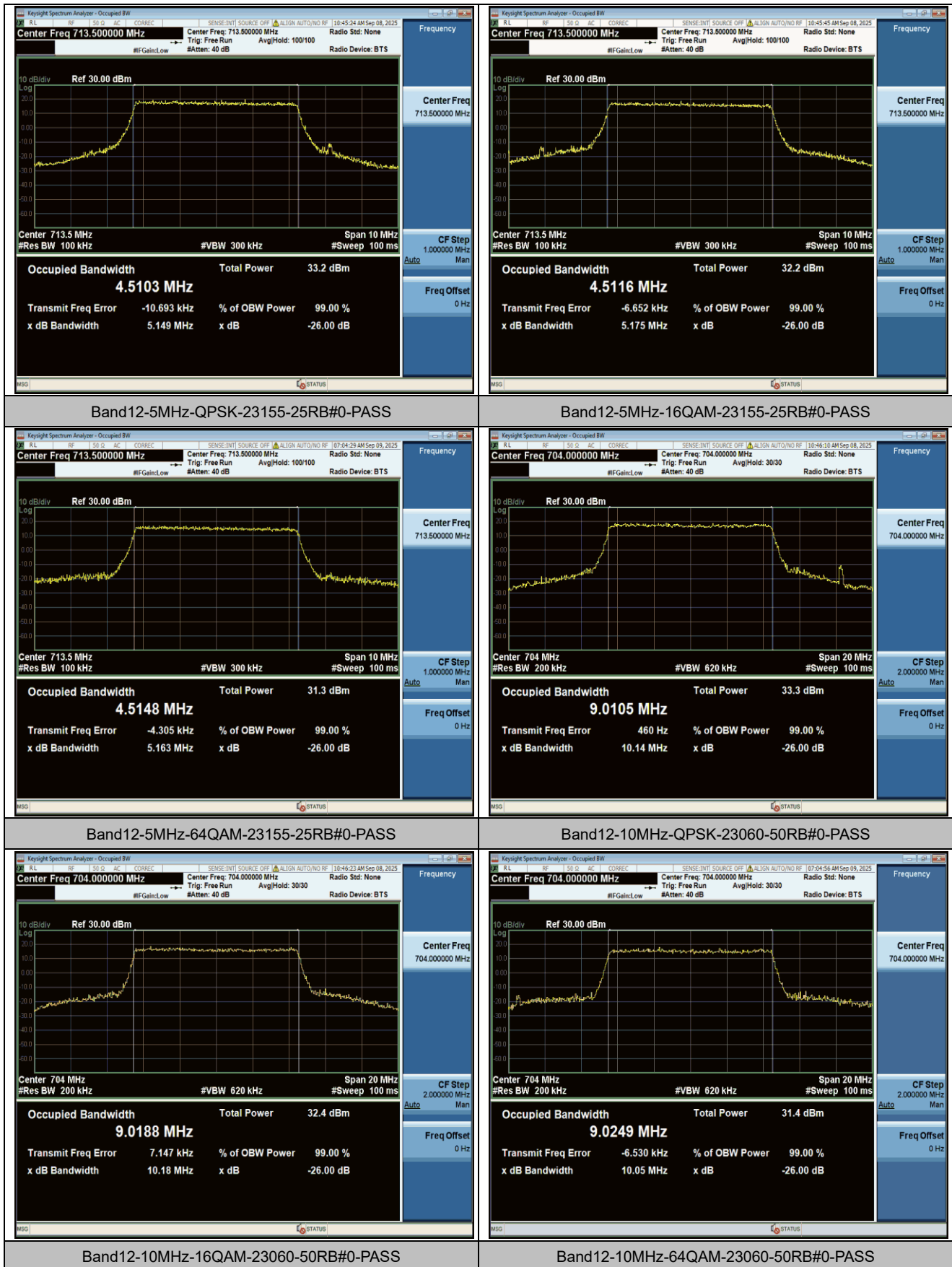
Test Graphs

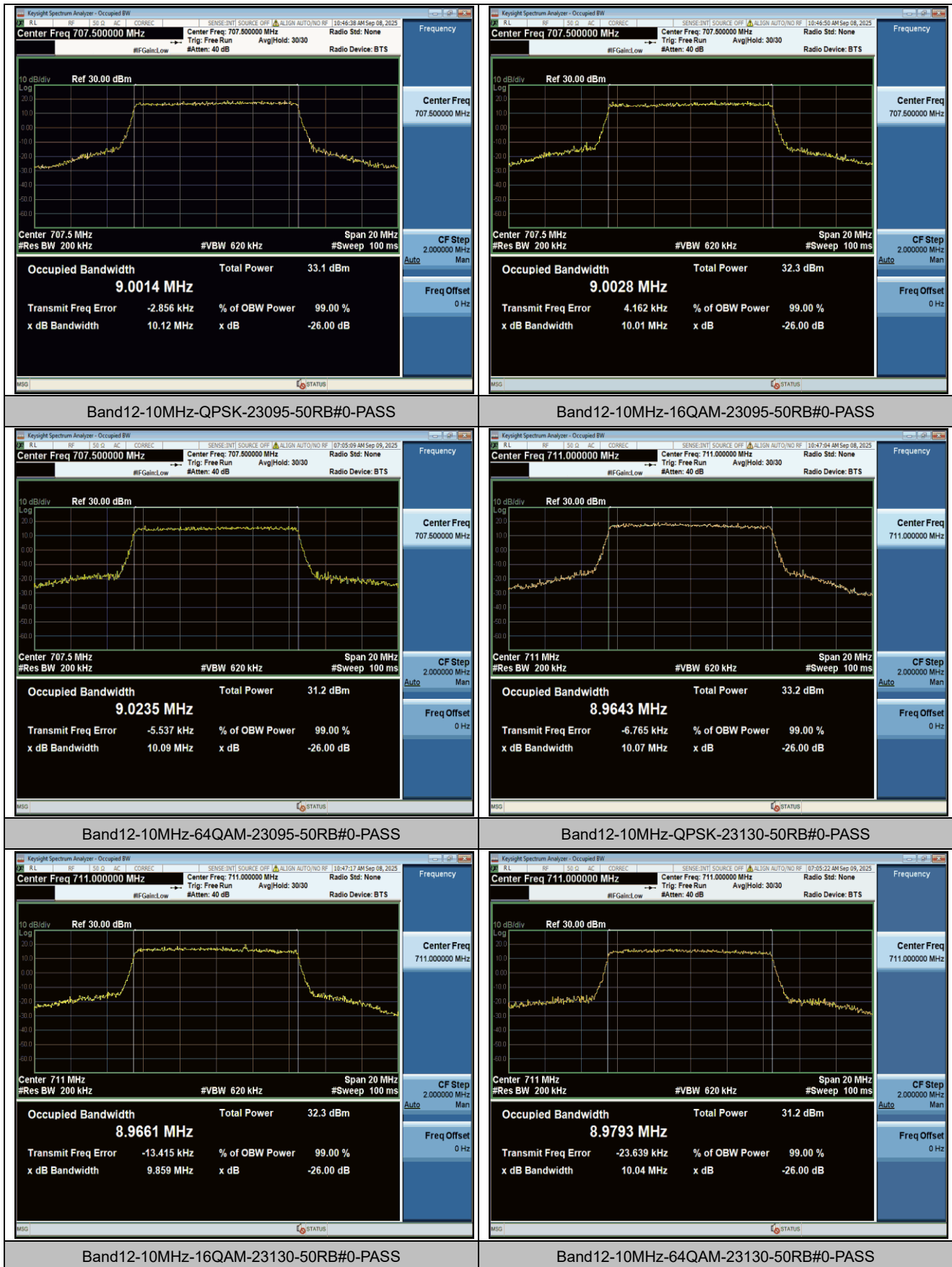






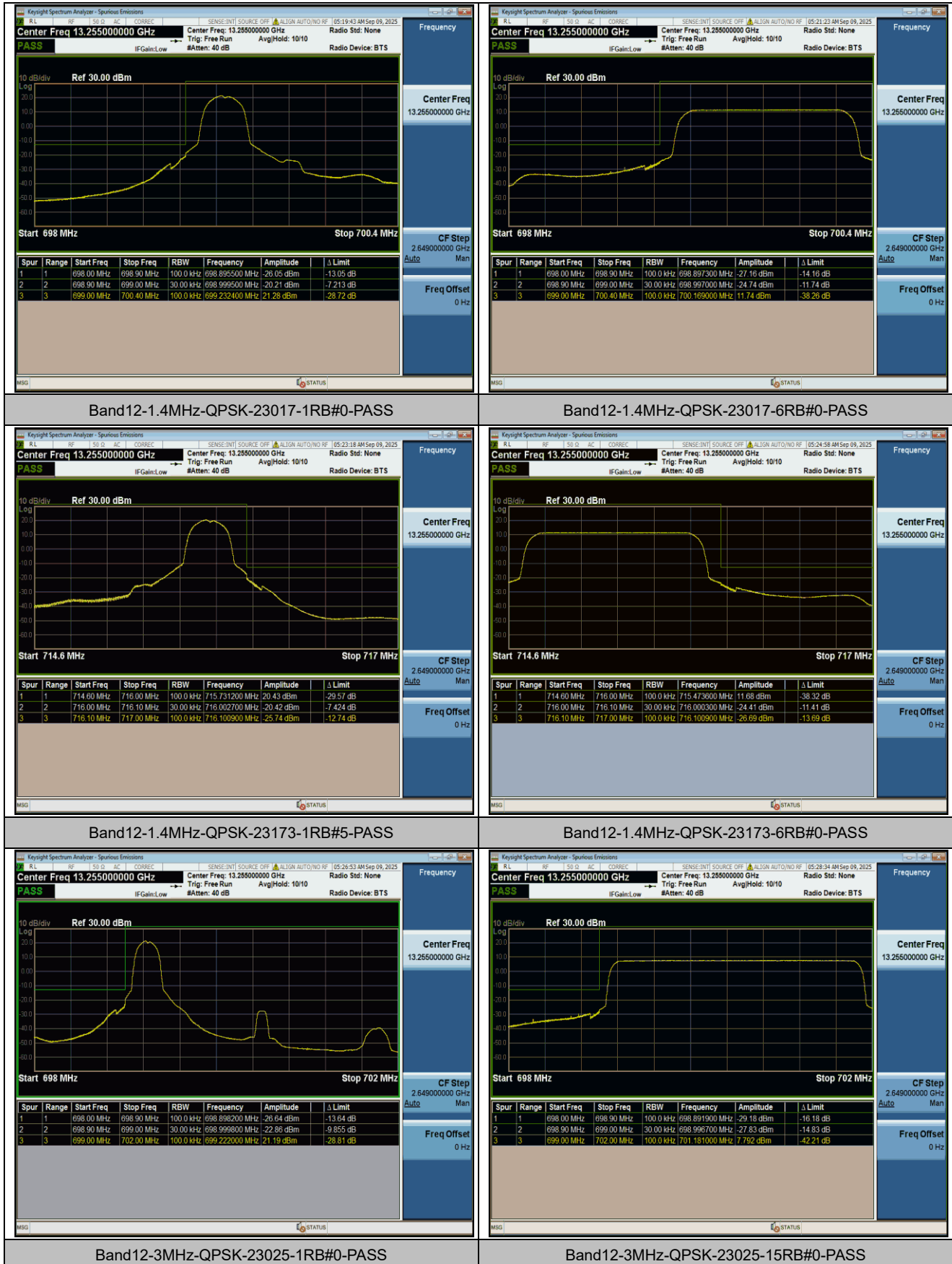


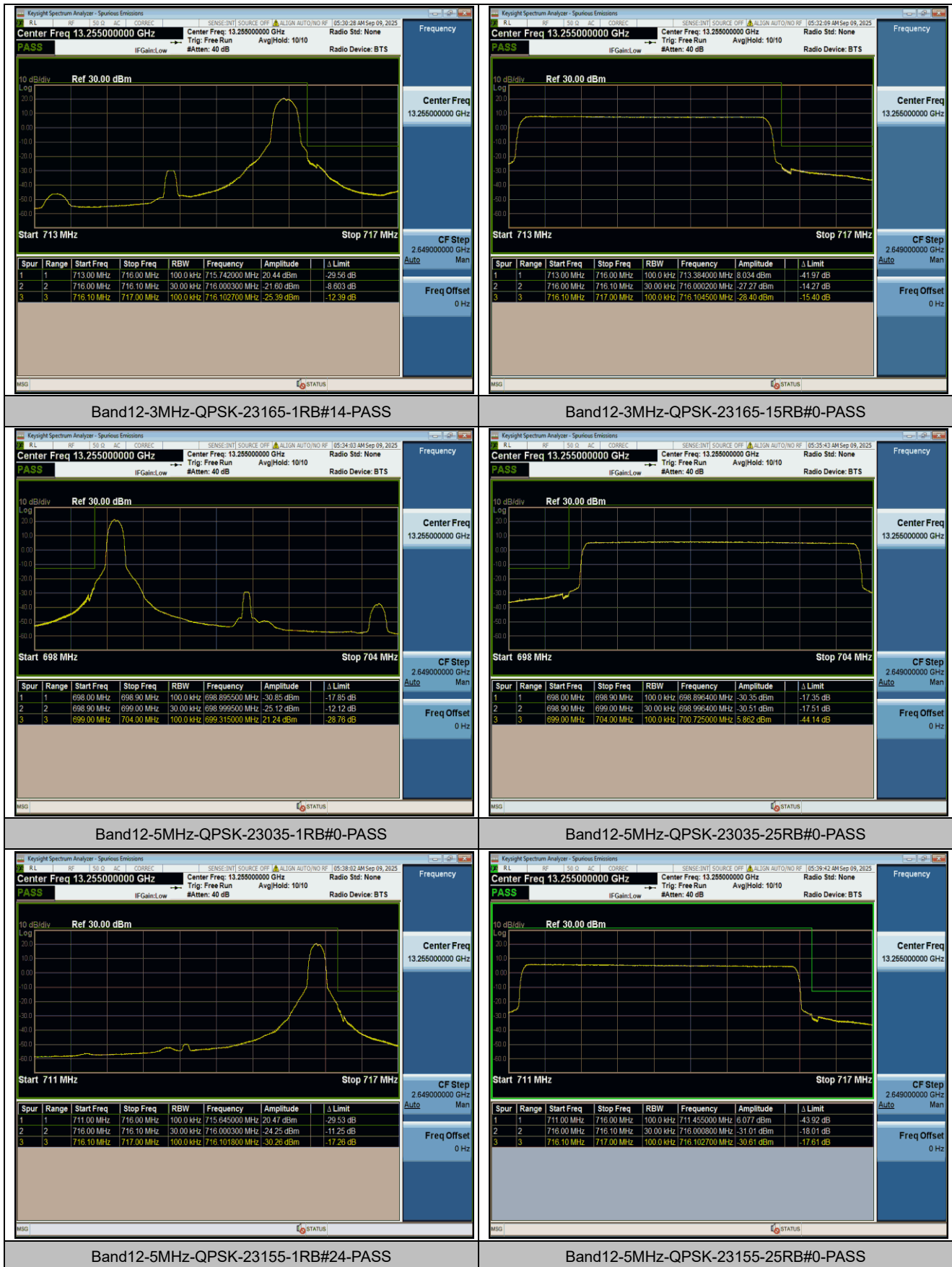


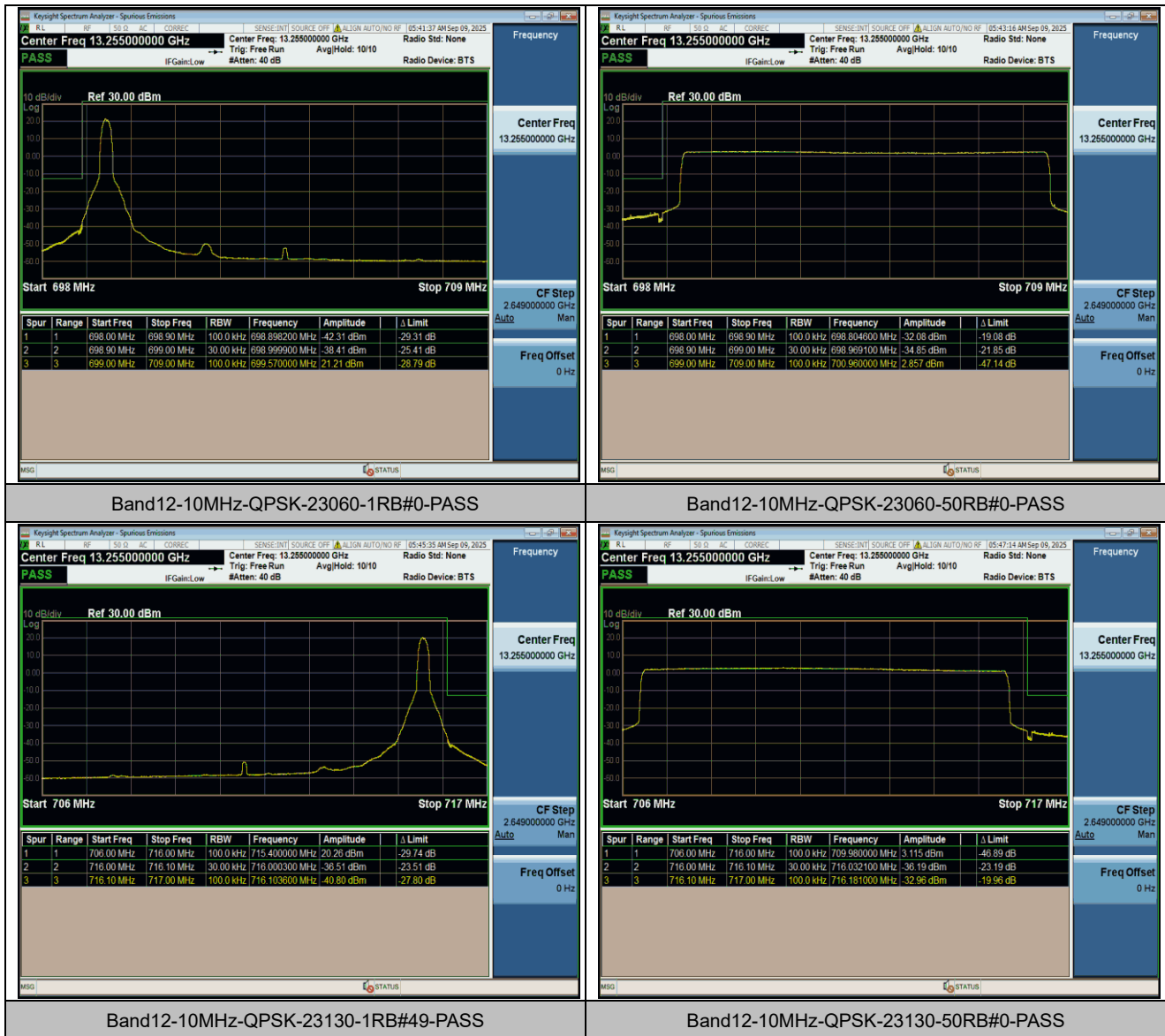


Band Edge

Test Graphs

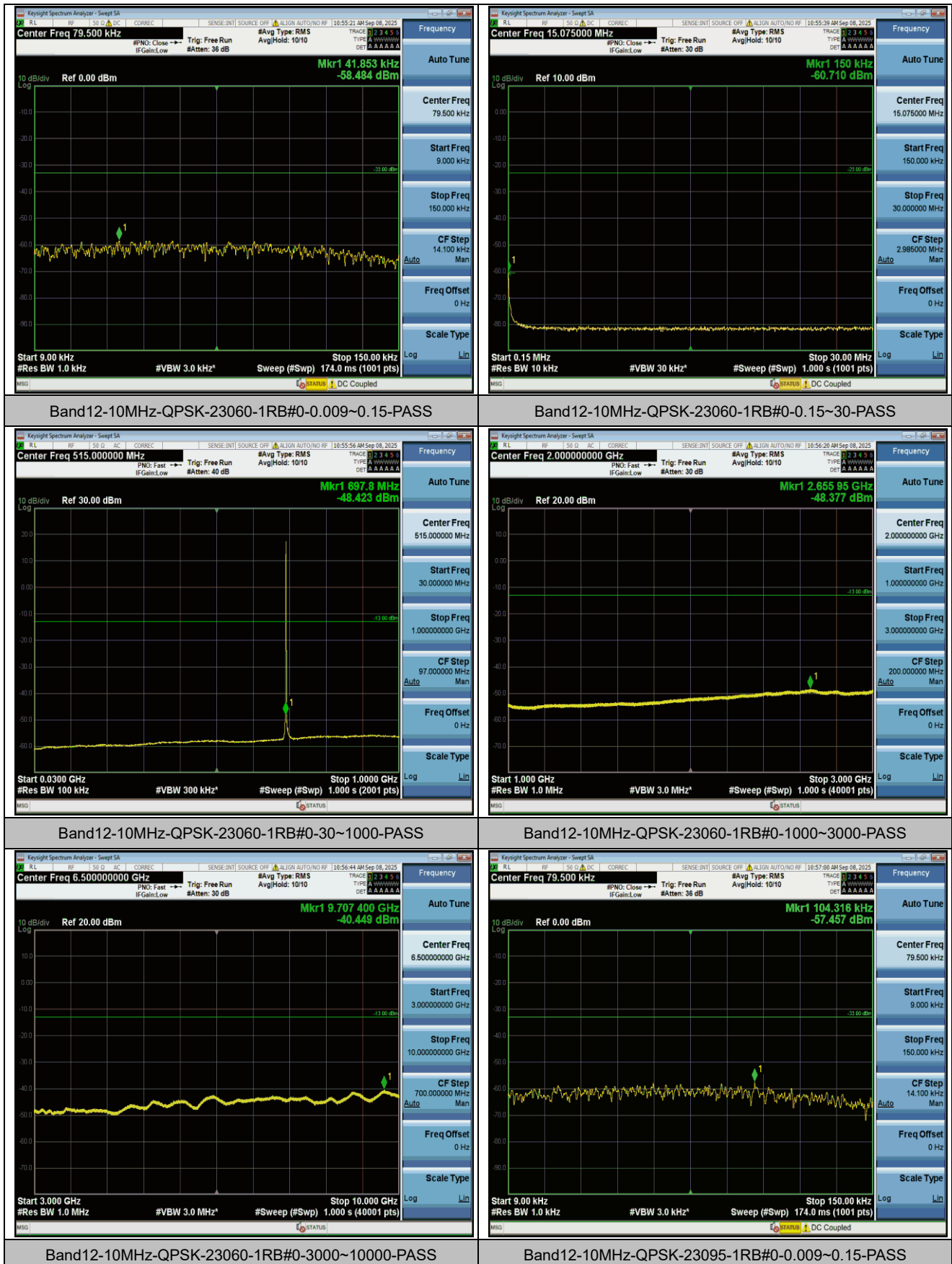


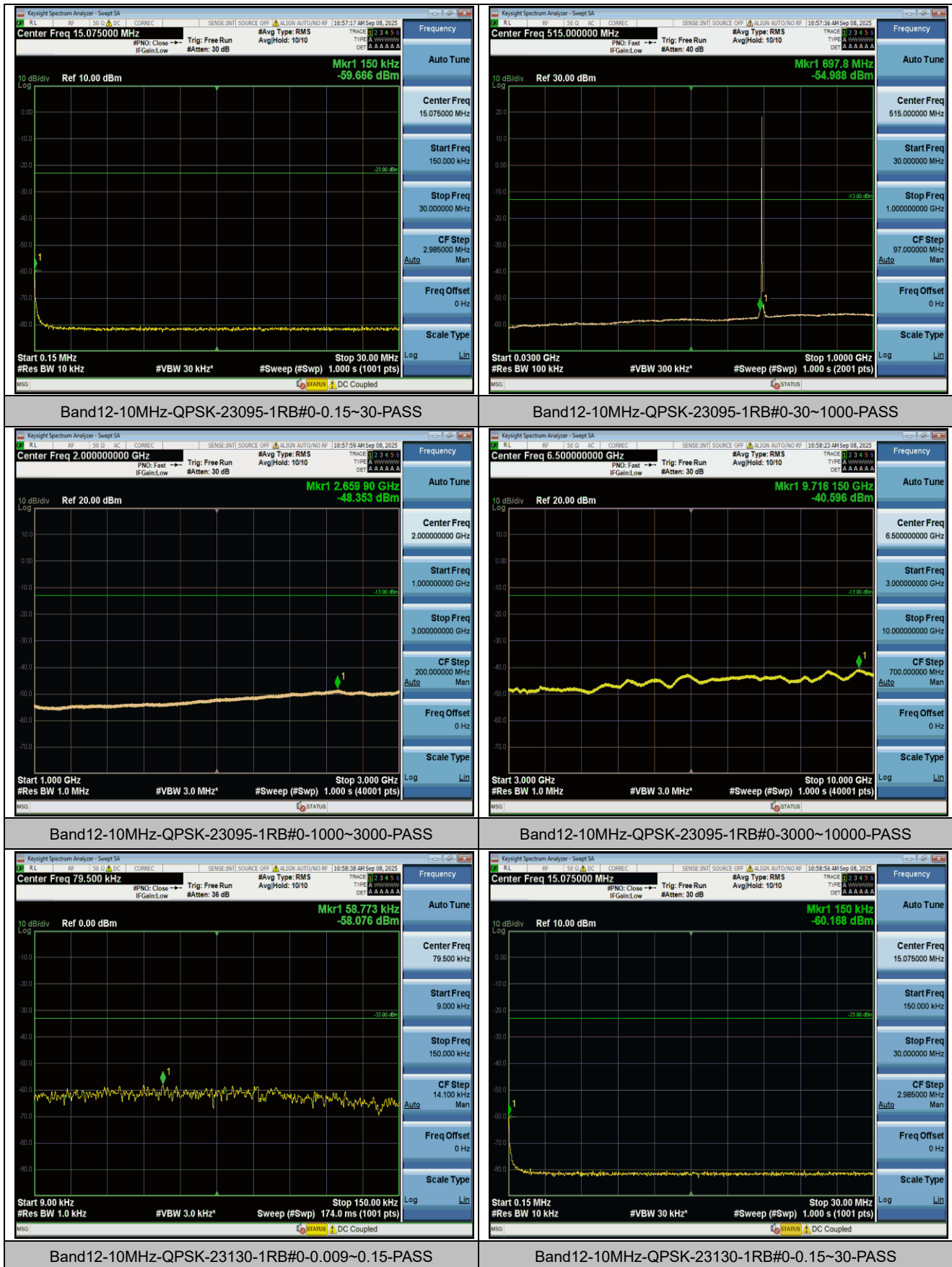


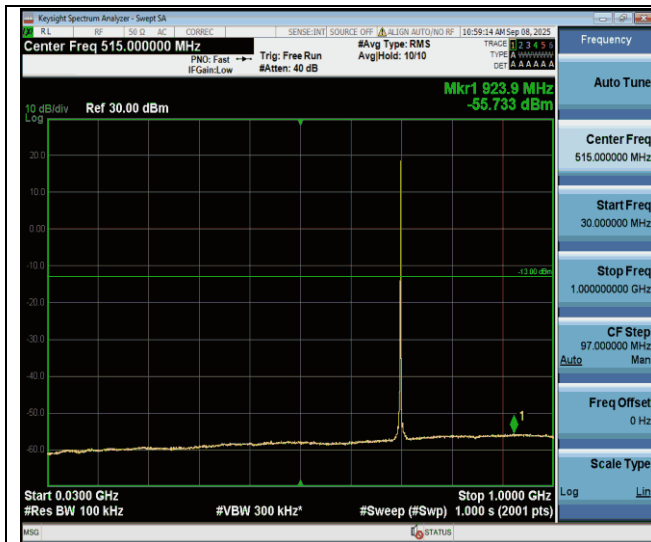


Conducted Spurious Emission

Test Graphs







Band12-10MHz-QPSK-23130-1RB#0-30~1000-PASS



Band12-10MHz-QPSK-23130-1RB#0-1000~3000-PASS



Band12-10MHz-QPSK-23130-1RB#0-3000~10000-PASS

Frequency Stability

Test Result

Voltage									
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band12	10MHz	QPSK	23095	50RB#0	VN	NT	-0.50	-0.000707	PASS
Band12	10MHz	QPSK	23095	50RB#0	VL	NT	1.40	0.001979	PASS
Band12	10MHz	QPSK	23095	50RB#0	VH	NT	0.40	0.000565	PASS

Temperature									
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band12	10MHz	QPSK	23095	50RB#0	NV	-30	1.20	0.001696	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	-20	0.80	0.001131	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	-10	1.40	0.001979	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	0	1.20	0.001696	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	10	1.20	0.001696	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	20	-0.70	-0.000989	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	30	0.80	0.001131	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	40	1.10	0.001555	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	50	-0.20	-0.000283	PASS

~The End~