



FCC Appendix RF Test Data for Band 12

Product Name: Smart Phone

Test Model: Philips S8310

Environmental Conditions

Temperature:	23.6° C
Relative Humidity:	54.3%
ATM Pressure:	100.0 kPa
Test Engineer:	Zoey Cao
Supervised by:	Eric Wang

1 Peak-to-Average Ratio(CCDF)

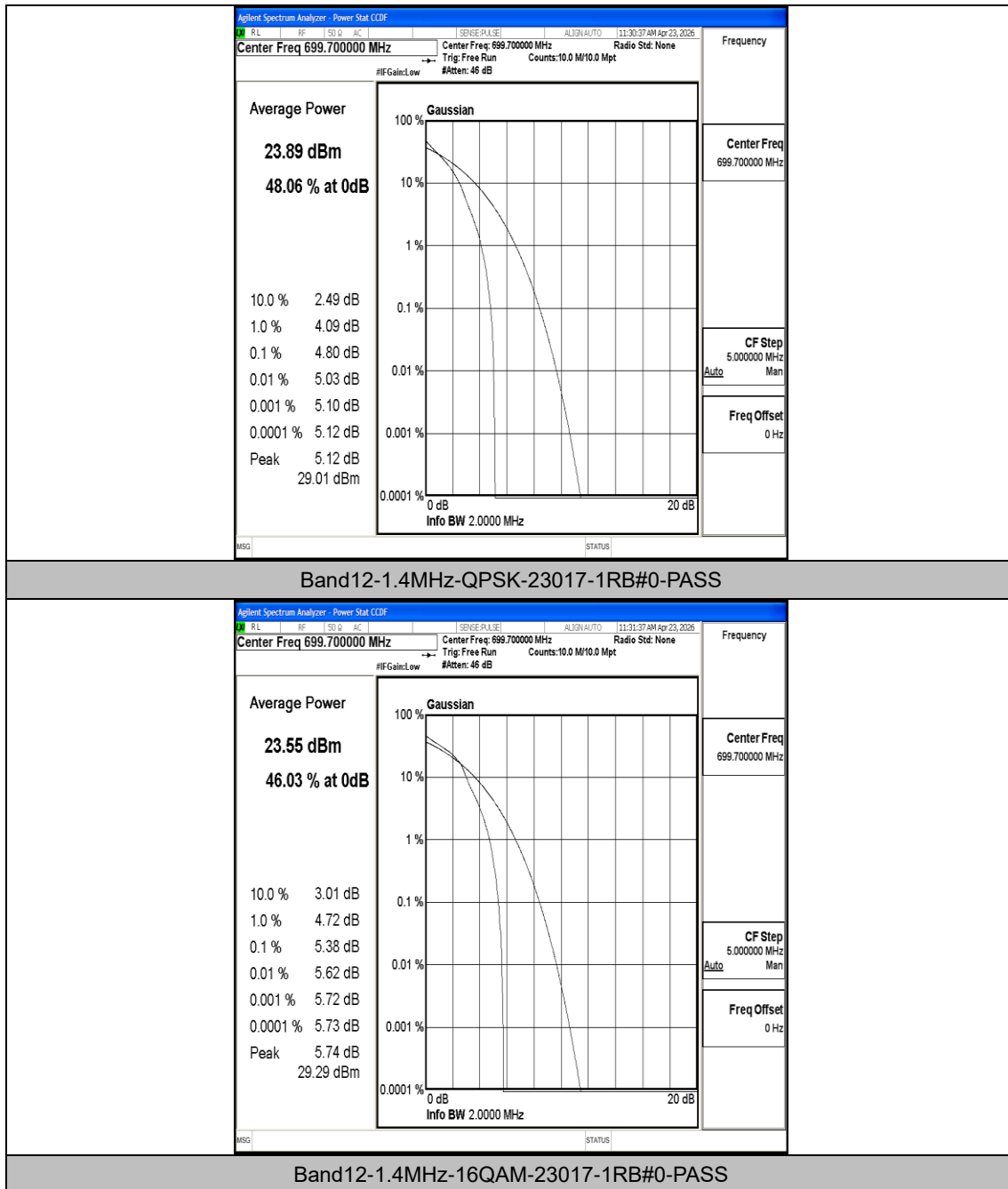
Test Result

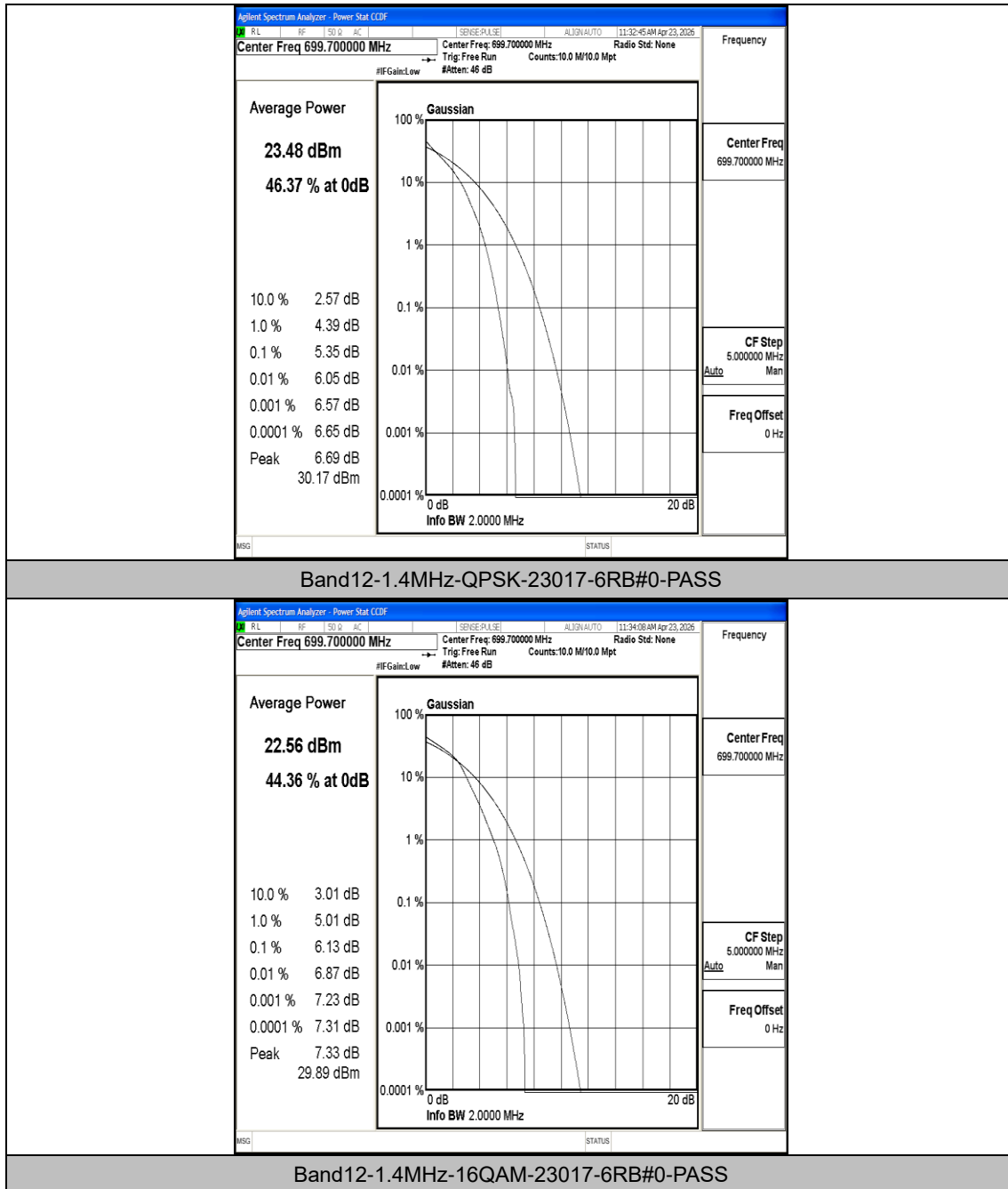
Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band12	1.4MHz	QPSK	23017	1RB#0	4.80	13	PASS
Band12	1.4MHz	16QAM	23017	1RB#0	5.38	13	PASS
Band12	1.4MHz	QPSK	23017	6RB#0	5.35	13	PASS
Band12	1.4MHz	16QAM	23017	6RB#0	6.13	13	PASS
Band12	1.4MHz	QPSK	23095	1RB#0	5.16	13	PASS
Band12	1.4MHz	16QAM	23095	1RB#0	5.58	13	PASS
Band12	1.4MHz	QPSK	23095	6RB#0	5.35	13	PASS
Band12	1.4MHz	16QAM	23095	6RB#0	6.18	13	PASS
Band12	1.4MHz	QPSK	23173	1RB#0	5.12	13	PASS
Band12	1.4MHz	16QAM	23173	1RB#0	5.84	13	PASS
Band12	1.4MHz	QPSK	23173	6RB#0	5.46	13	PASS
Band12	1.4MHz	16QAM	23173	6RB#0	6.13	13	PASS
Band12	3MHz	QPSK	23025	1RB#0	4.82	13	PASS
Band12	3MHz	16QAM	23025	1RB#0	5.56	13	PASS
Band12	3MHz	QPSK	23025	15RB#0	5.46	13	PASS
Band12	3MHz	16QAM	23025	15RB#0	6.27	13	PASS
Band12	3MHz	QPSK	23095	1RB#0	5.16	13	PASS
Band12	3MHz	16QAM	23095	1RB#0	5.81	13	PASS
Band12	3MHz	QPSK	23095	15RB#0	5.43	13	PASS
Band12	3MHz	16QAM	23095	15RB#0	6.25	13	PASS
Band12	3MHz	QPSK	23165	1RB#0	5.32	13	PASS
Band12	3MHz	16QAM	23165	1RB#0	6.15	13	PASS
Band12	3MHz	QPSK	23165	15RB#0	5.56	13	PASS
Band12	3MHz	16QAM	23165	15RB#0	6.24	13	PASS
Band12	5MHz	QPSK	23035	1RB#0	4.92	13	PASS
Band12	5MHz	16QAM	23035	1RB#0	5.49	13	PASS
Band12	5MHz	QPSK	23035	25RB#0	5.53	13	PASS
Band12	5MHz	16QAM	23035	25RB#0	6.22	13	PASS
Band12	5MHz	QPSK	23095	1RB#0	5.25	13	PASS
Band12	5MHz	16QAM	23095	1RB#0	5.61	13	PASS
Band12	5MHz	QPSK	23095	25RB#0	5.48	13	PASS
Band12	5MHz	16QAM	23095	25RB#0	6.21	13	PASS
Band12	5MHz	QPSK	23155	1RB#0	5.43	13	PASS
Band12	5MHz	16QAM	23155	1RB#0	5.96	13	PASS
Band12	5MHz	QPSK	23155	25RB#0	5.62	13	PASS
Band12	5MHz	16QAM	23155	25RB#0	6.23	13	PASS
Band12	10MHz	QPSK	23060	1RB#0	4.91	13	PASS

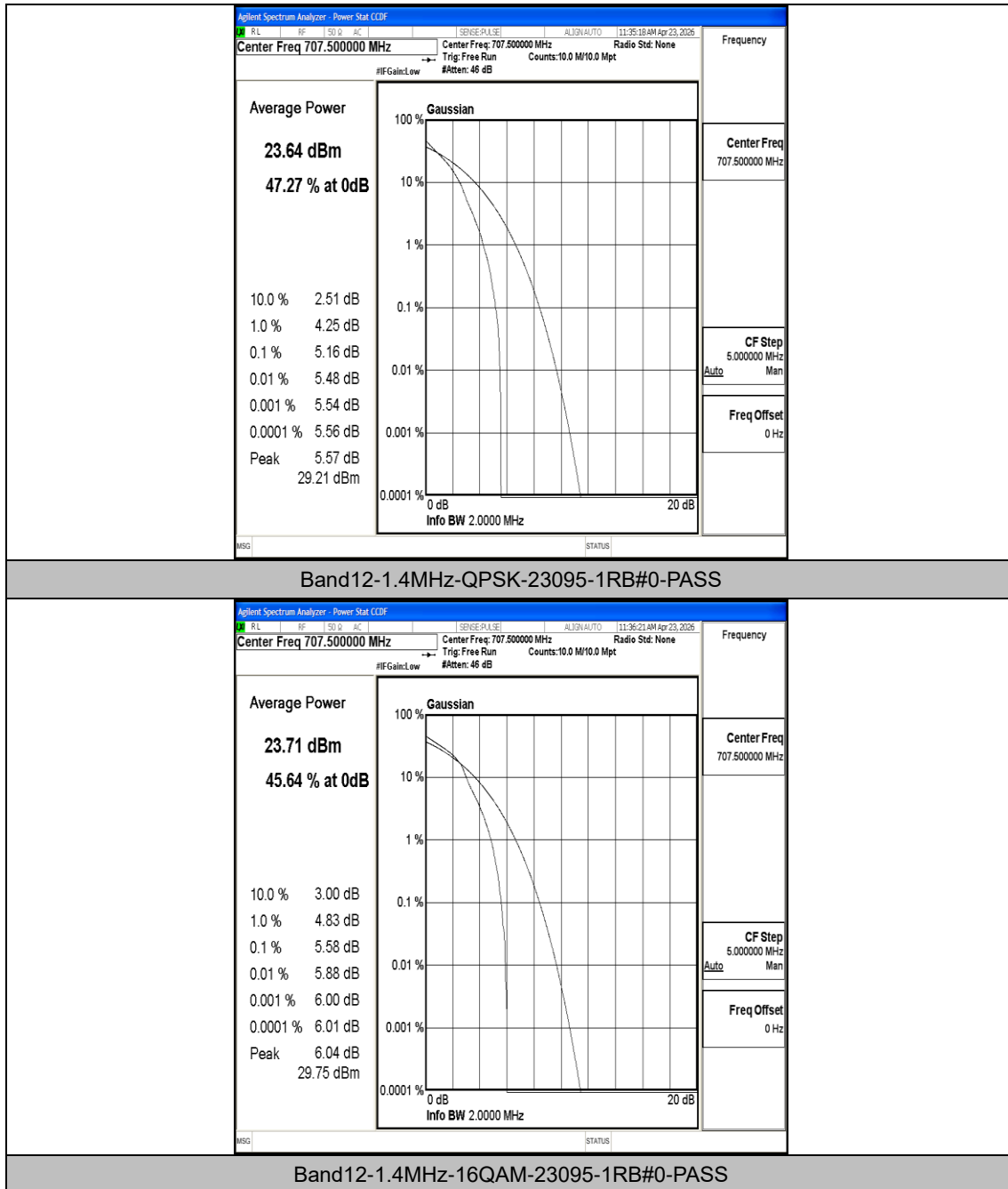


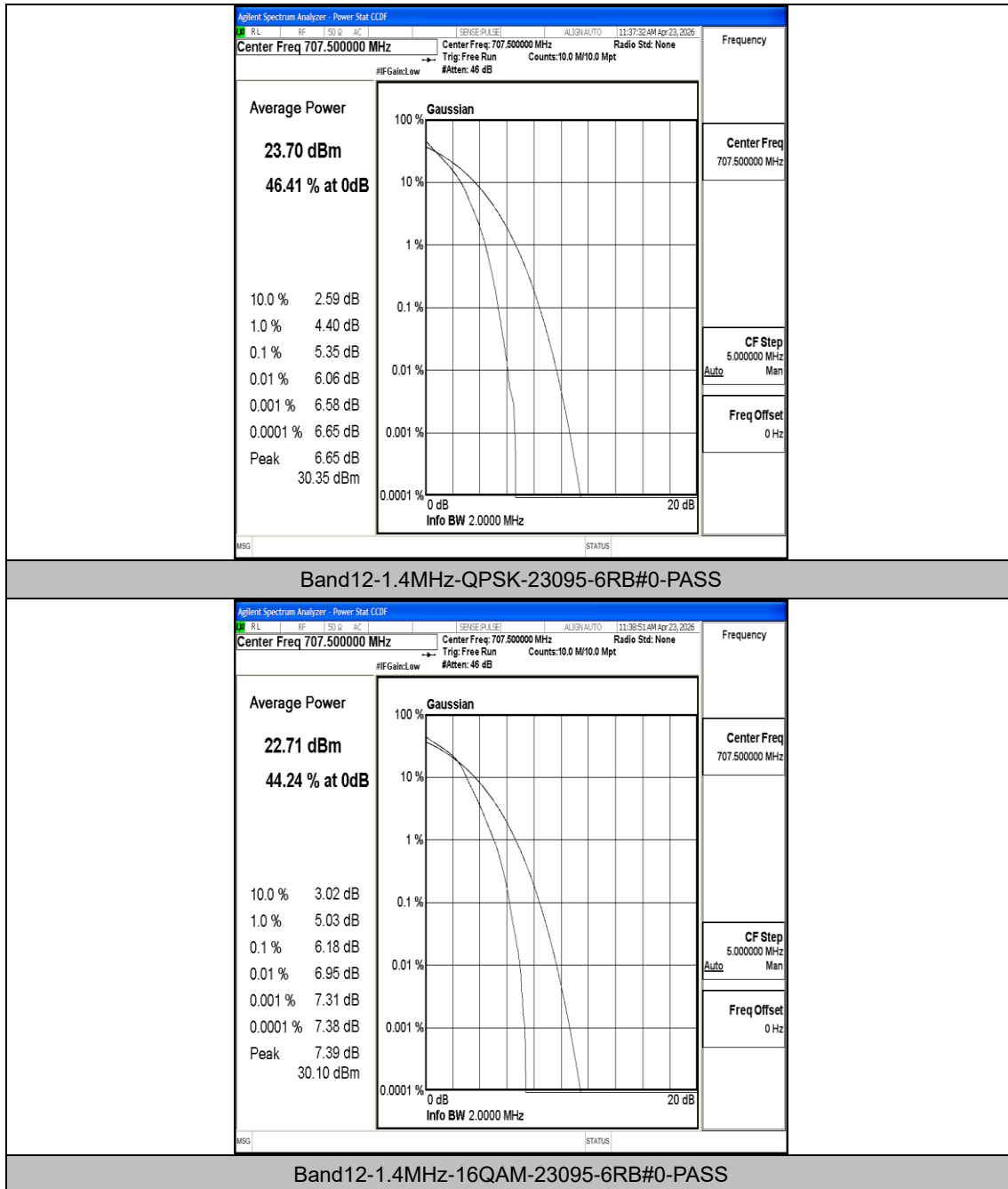
Band12	10MHz	16QAM	23060	1RB#0	5.48	13	PASS
Band12	10MHz	QPSK	23060	50RB#0	5.64	13	PASS
Band12	10MHz	16QAM	23060	50RB#0	6.29	13	PASS
Band12	10MHz	QPSK	23095	1RB#0	4.95	13	PASS
Band12	10MHz	16QAM	23095	1RB#0	5.51	13	PASS
Band12	10MHz	QPSK	23095	50RB#0	5.48	13	PASS
Band12	10MHz	16QAM	23095	50RB#0	6.25	13	PASS
Band12	10MHz	QPSK	23130	1RB#0	5.16	13	PASS
Band12	10MHz	16QAM	23130	1RB#0	5.55	13	PASS
Band12	10MHz	QPSK	23130	50RB#0	5.64	13	PASS
Band12	10MHz	16QAM	23130	50RB#0	6.36	13	PASS

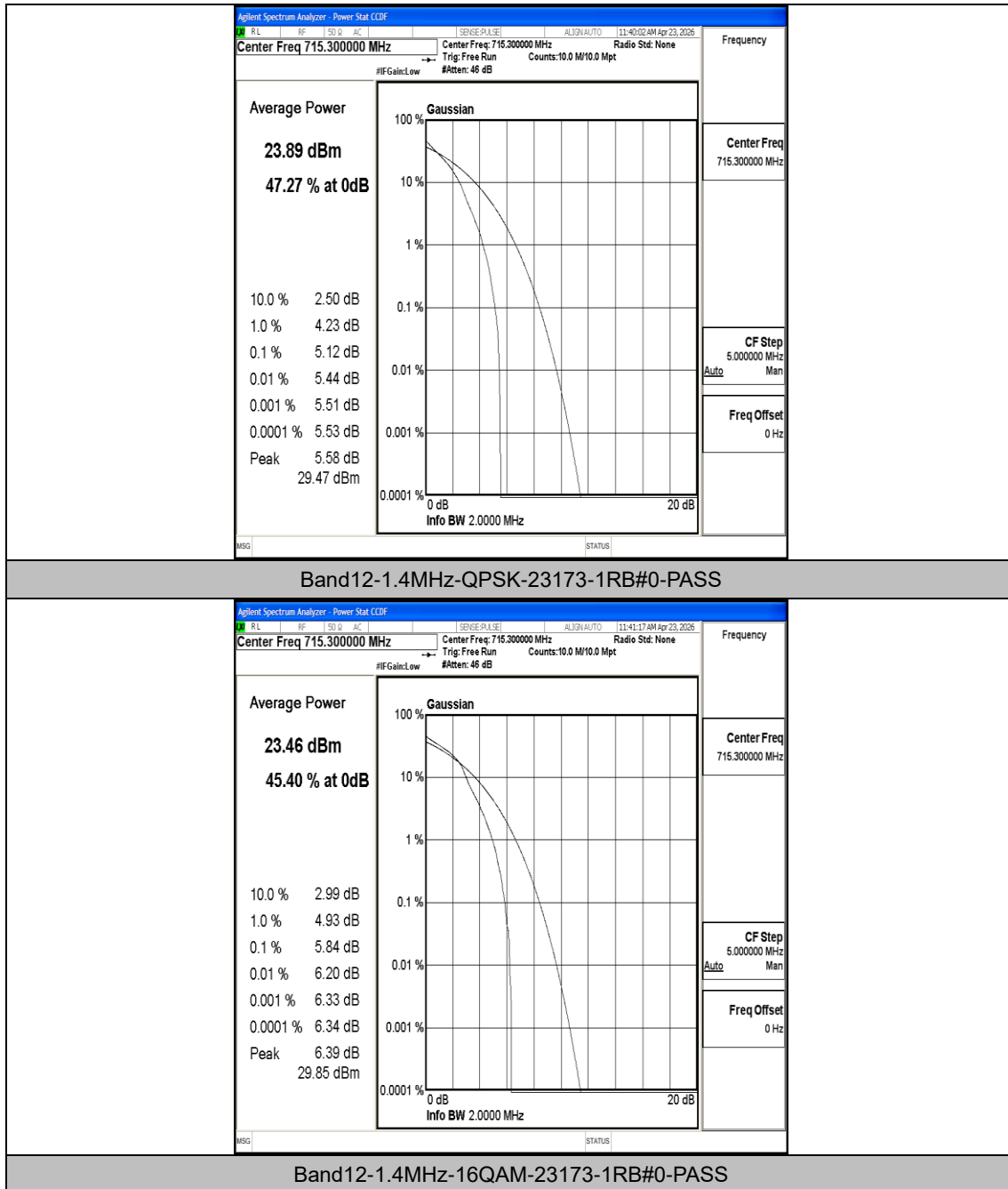
Test Graphs

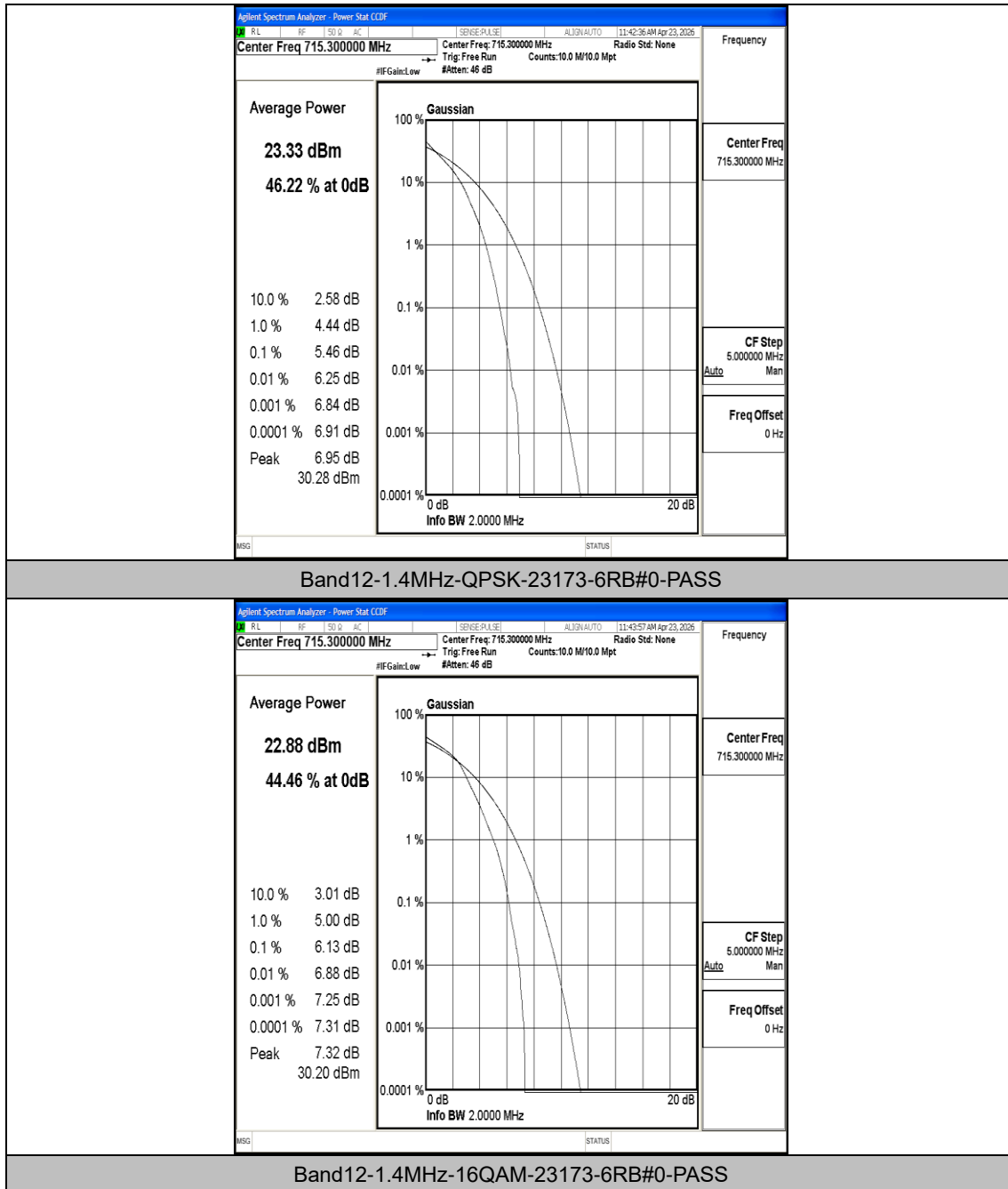


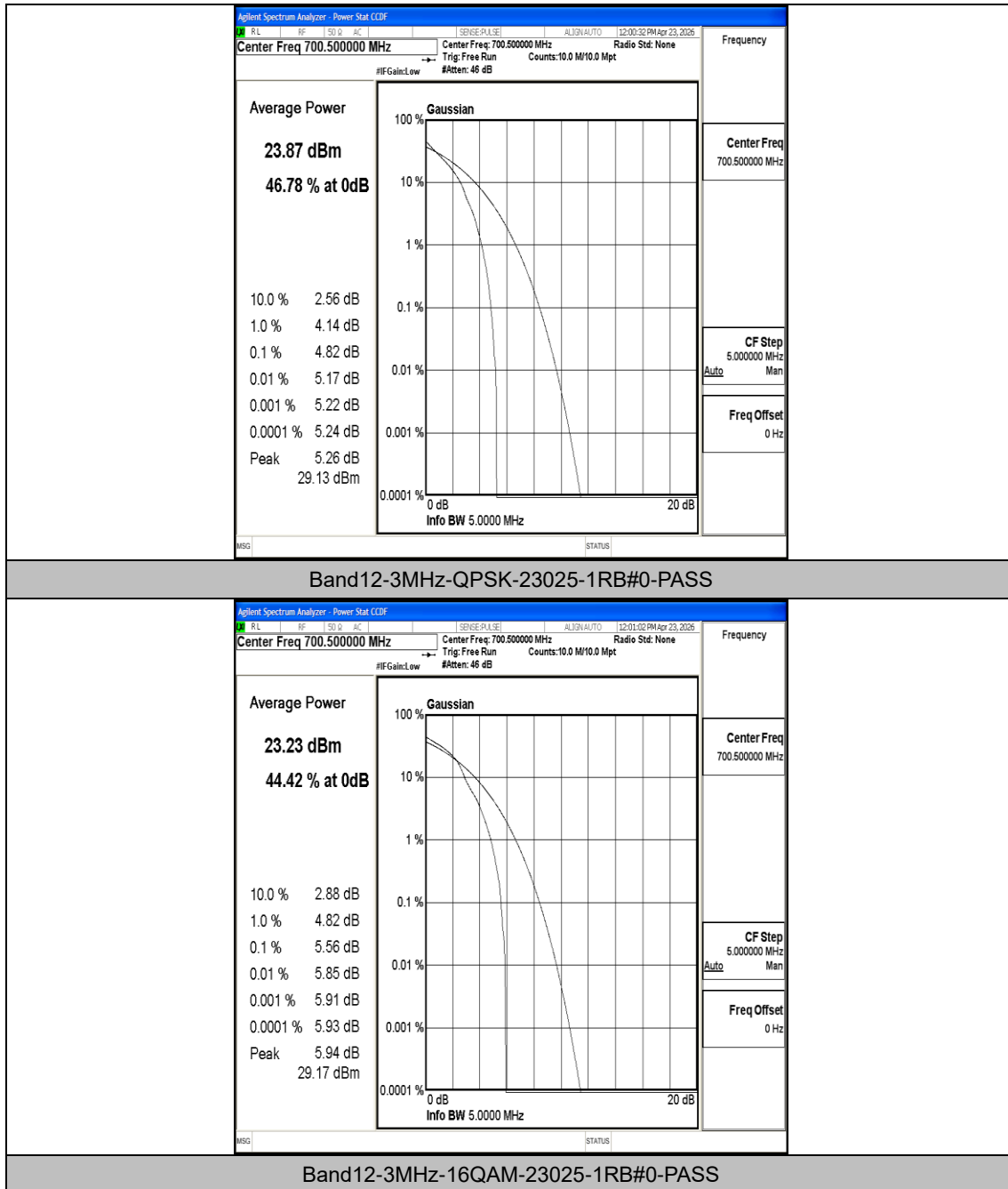


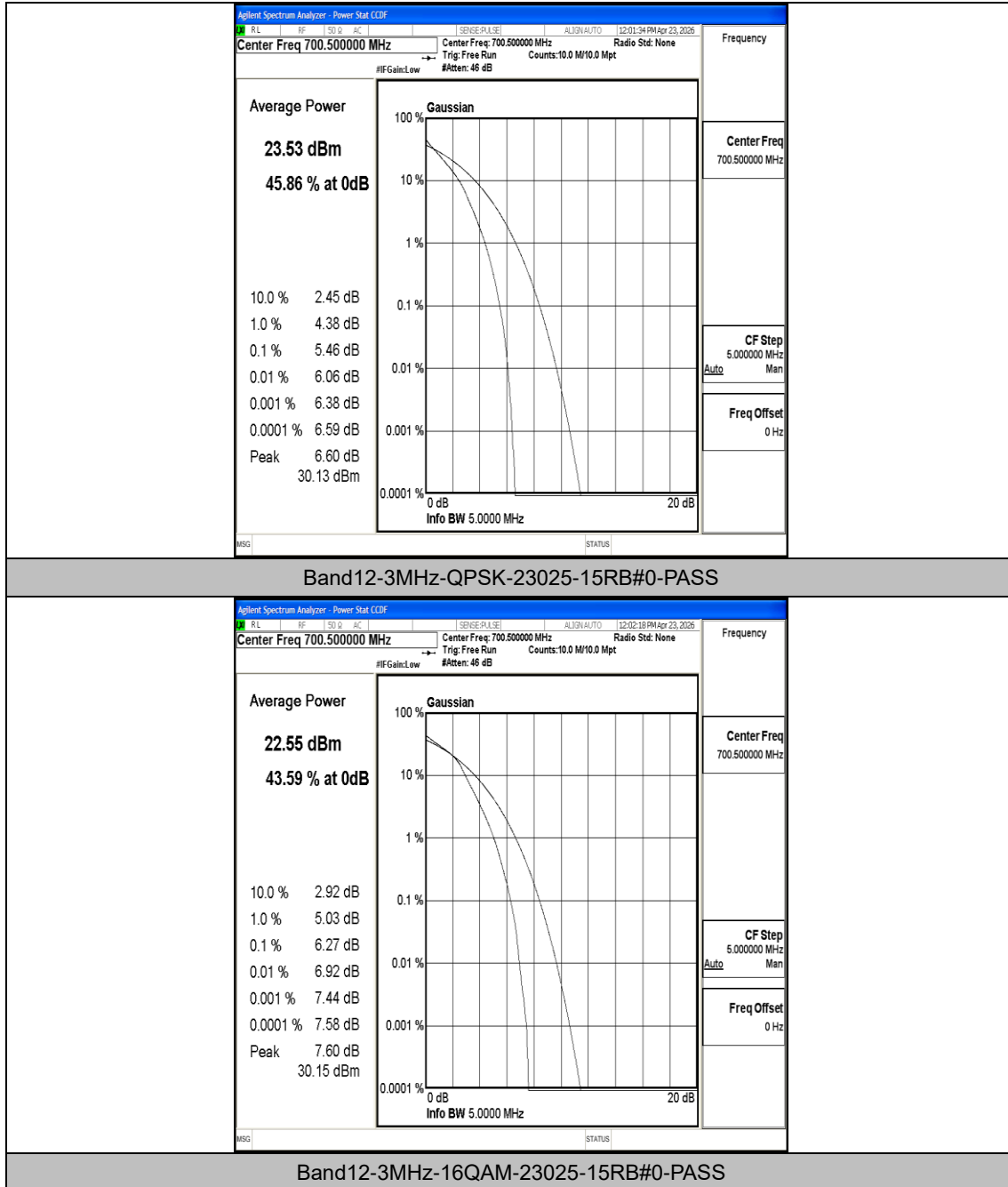


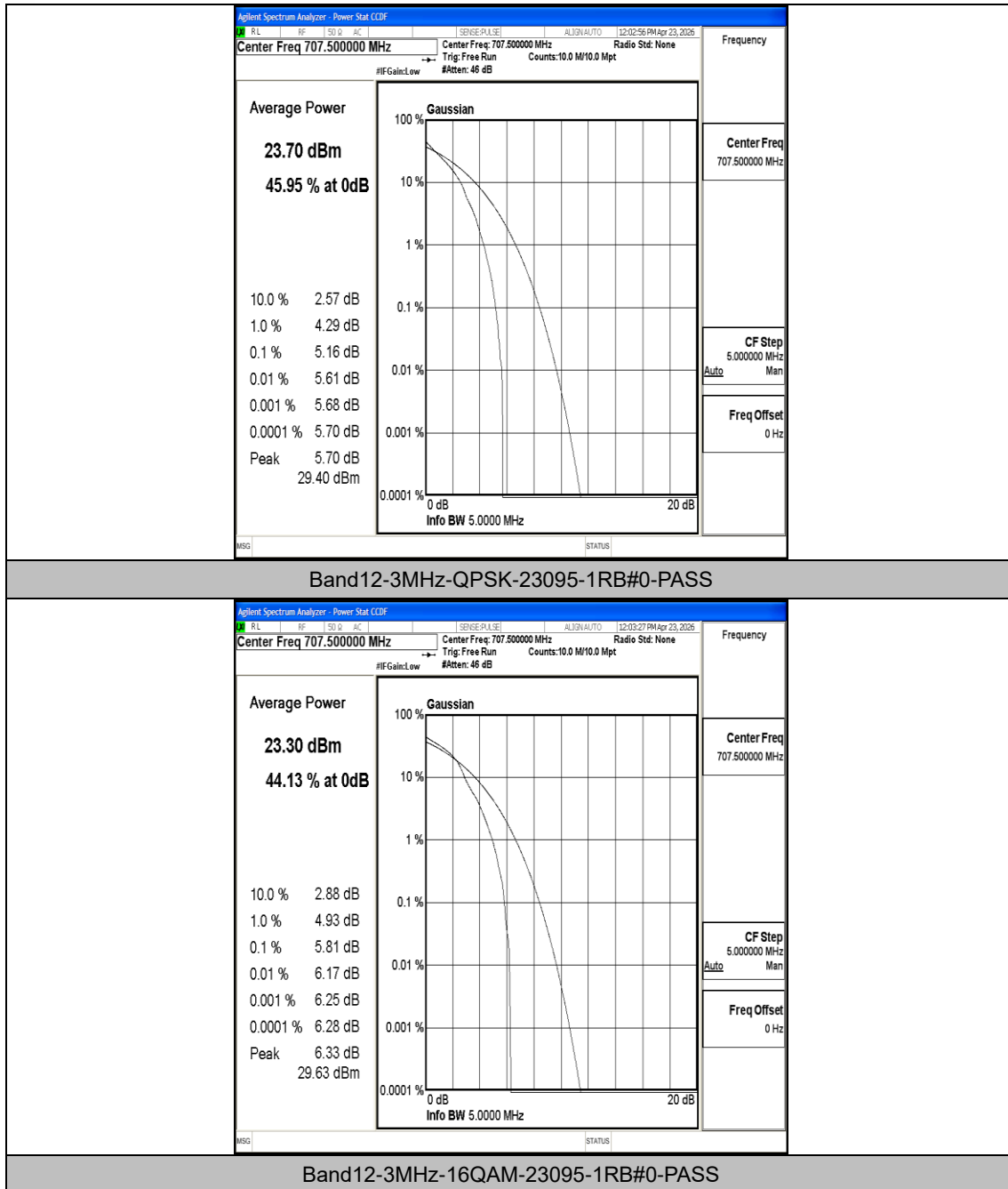


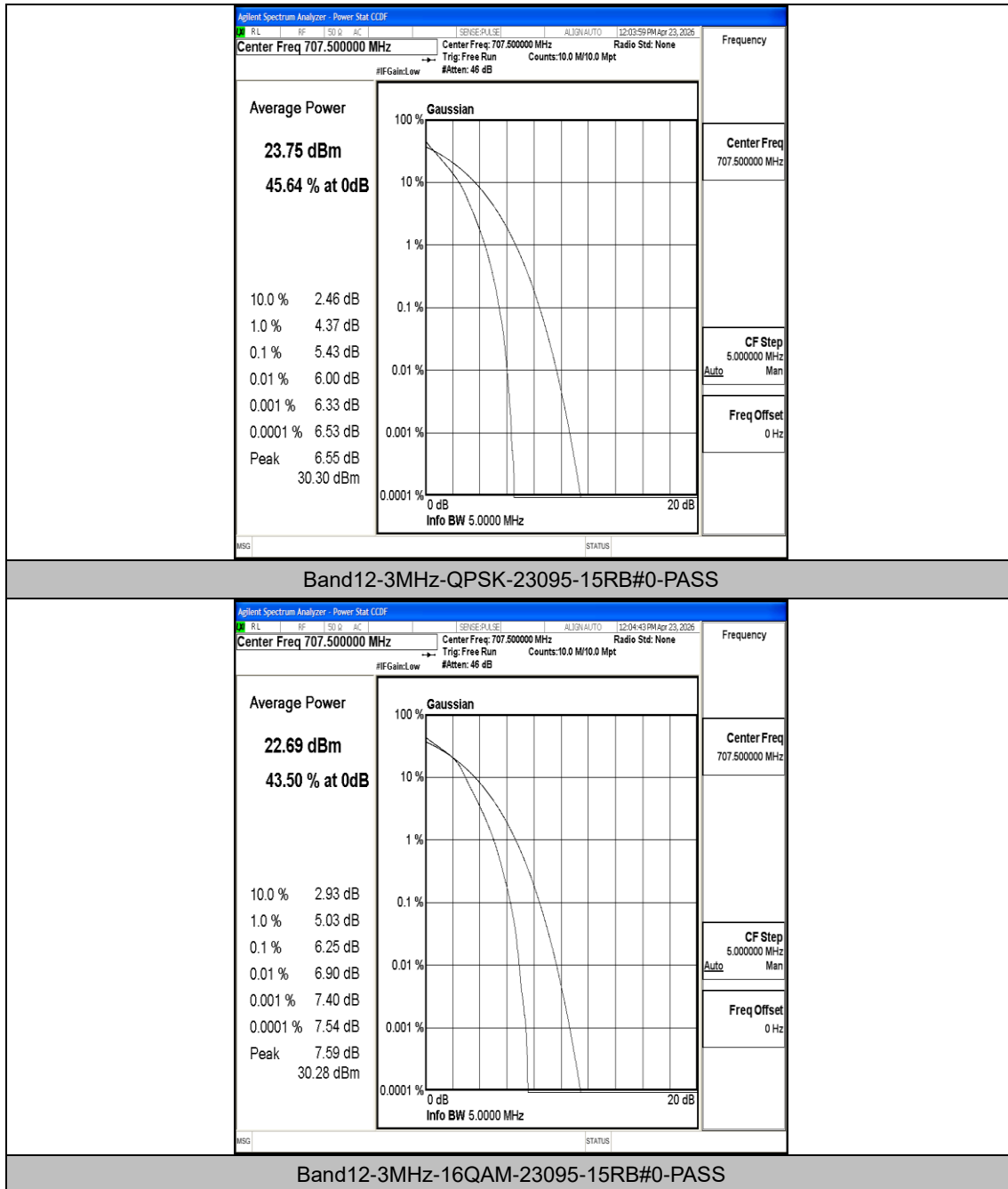


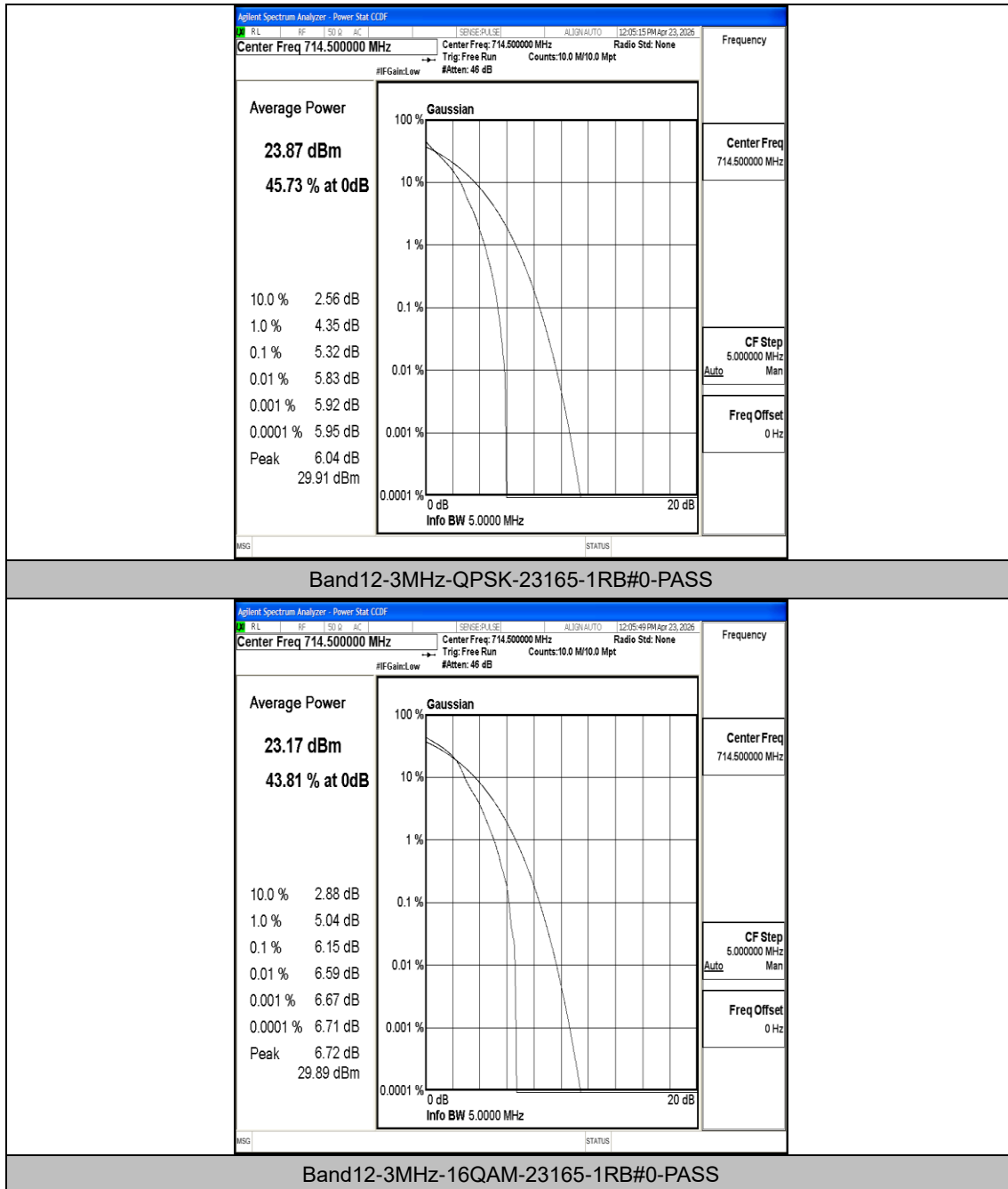


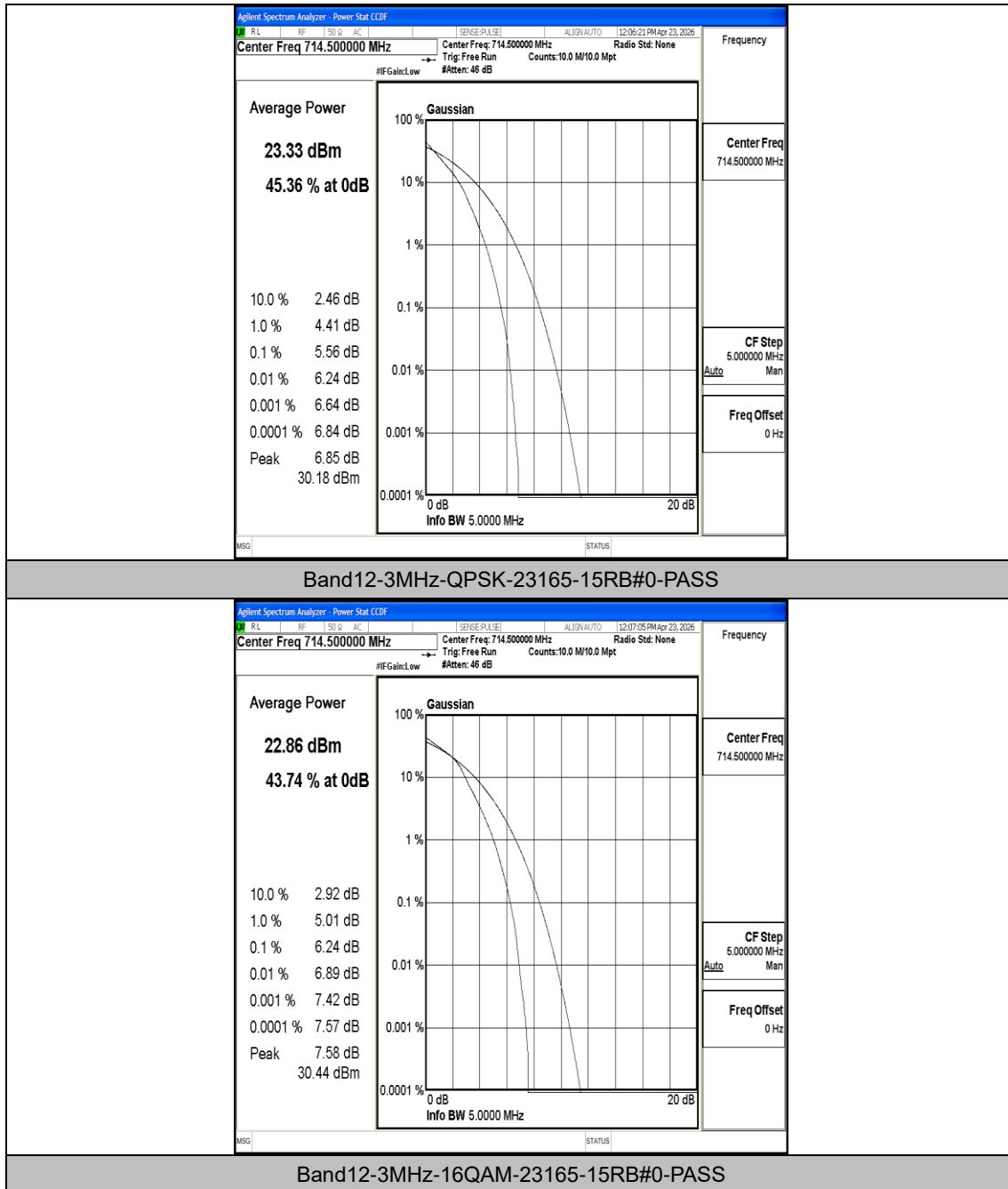


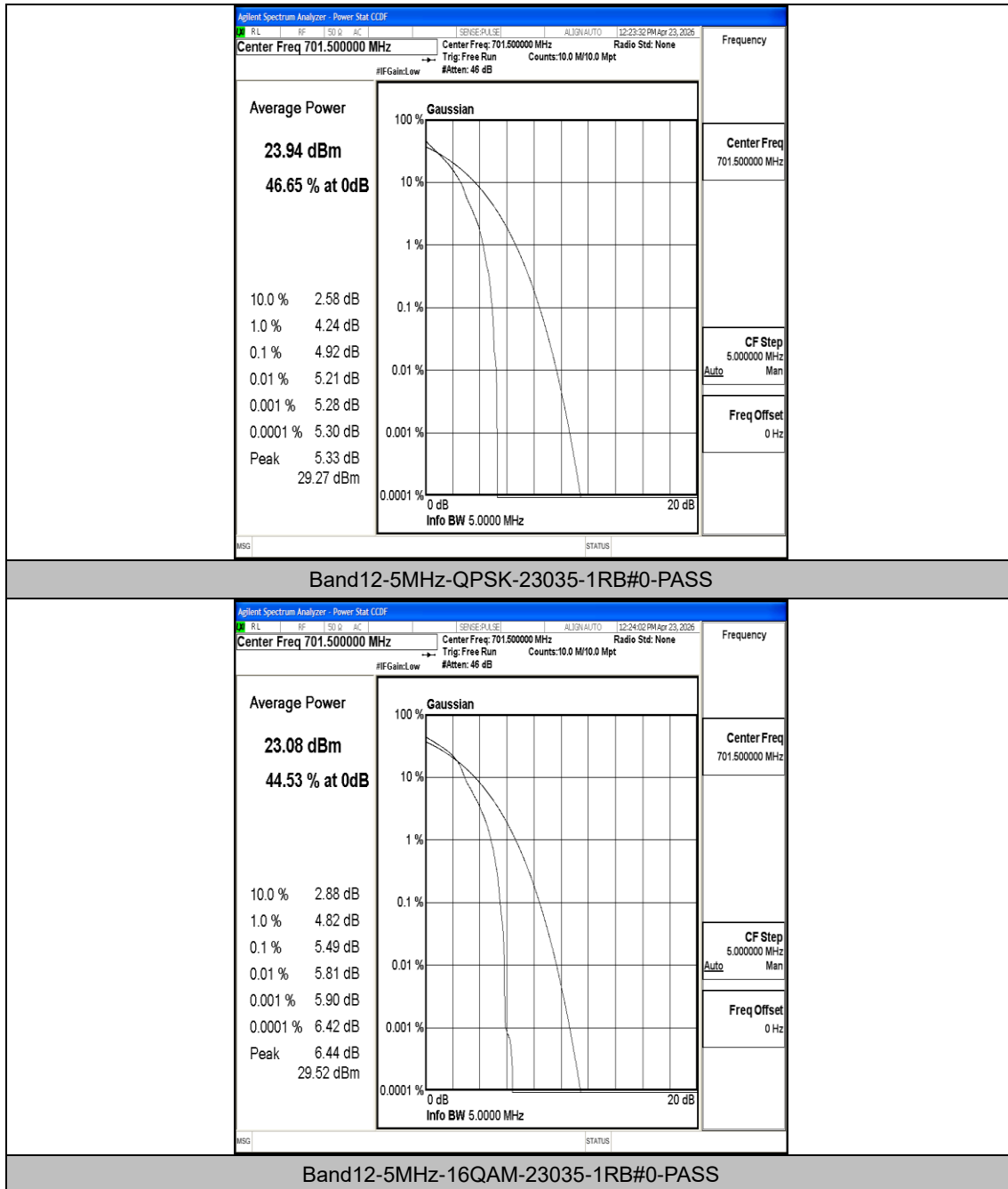


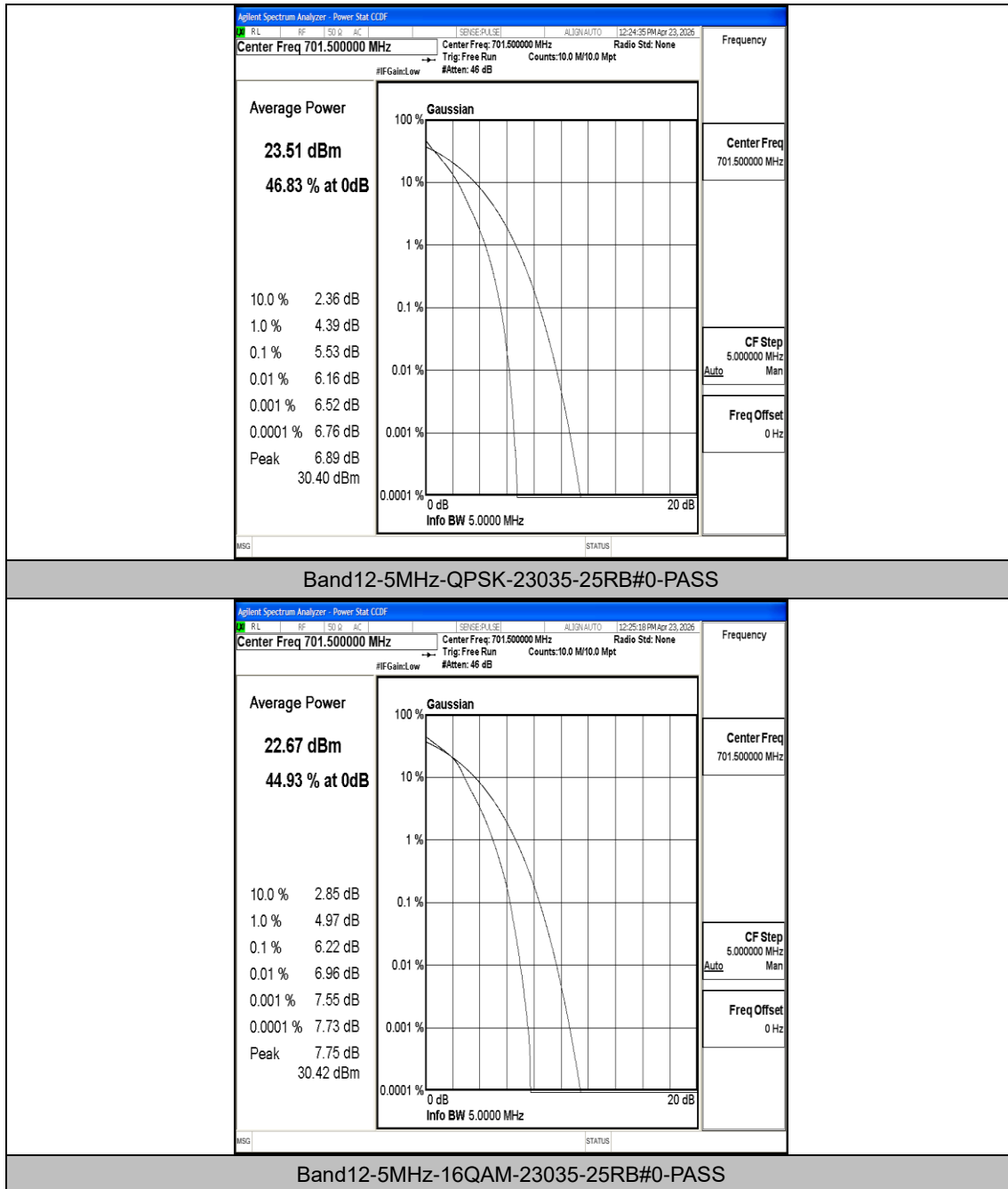


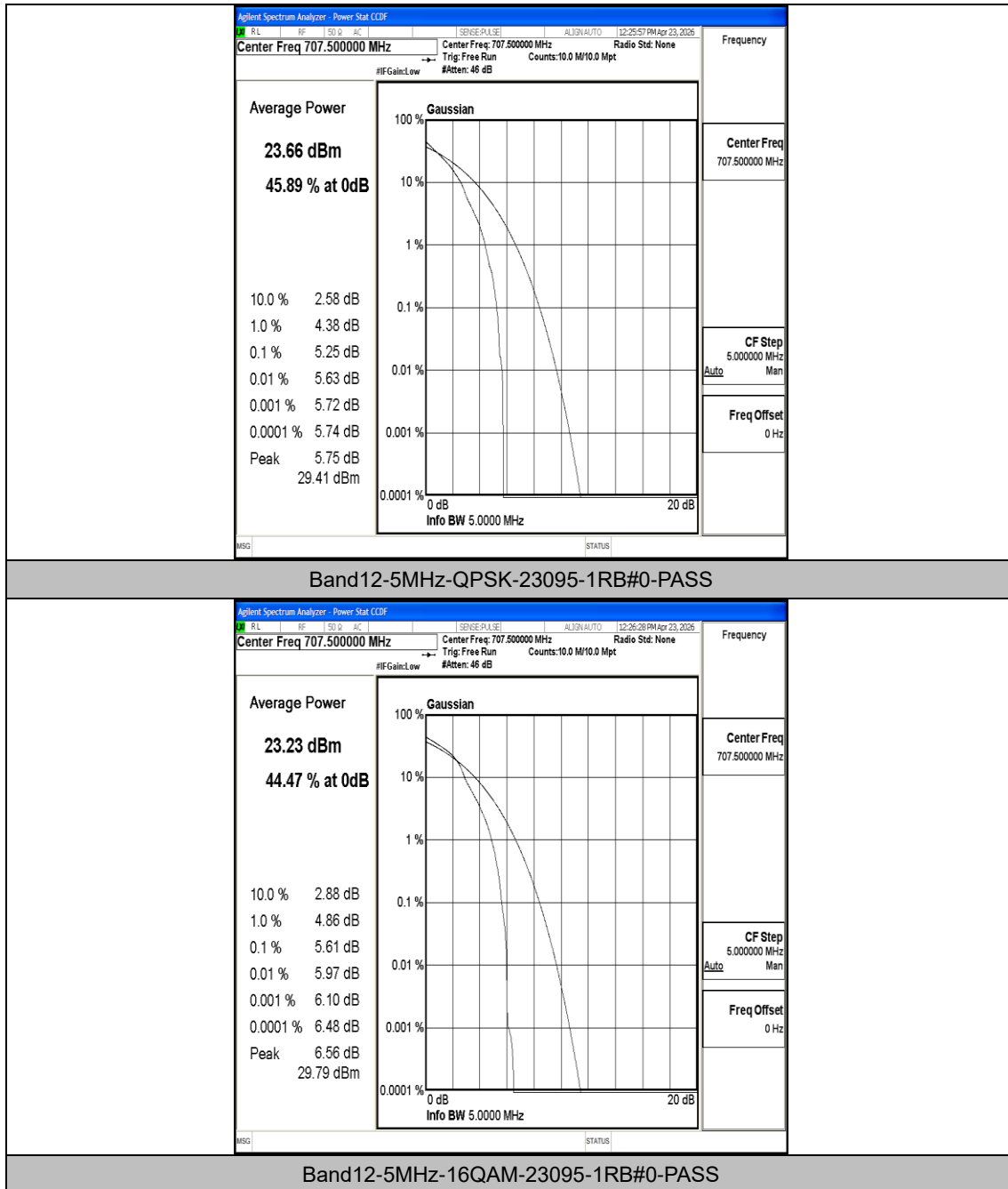


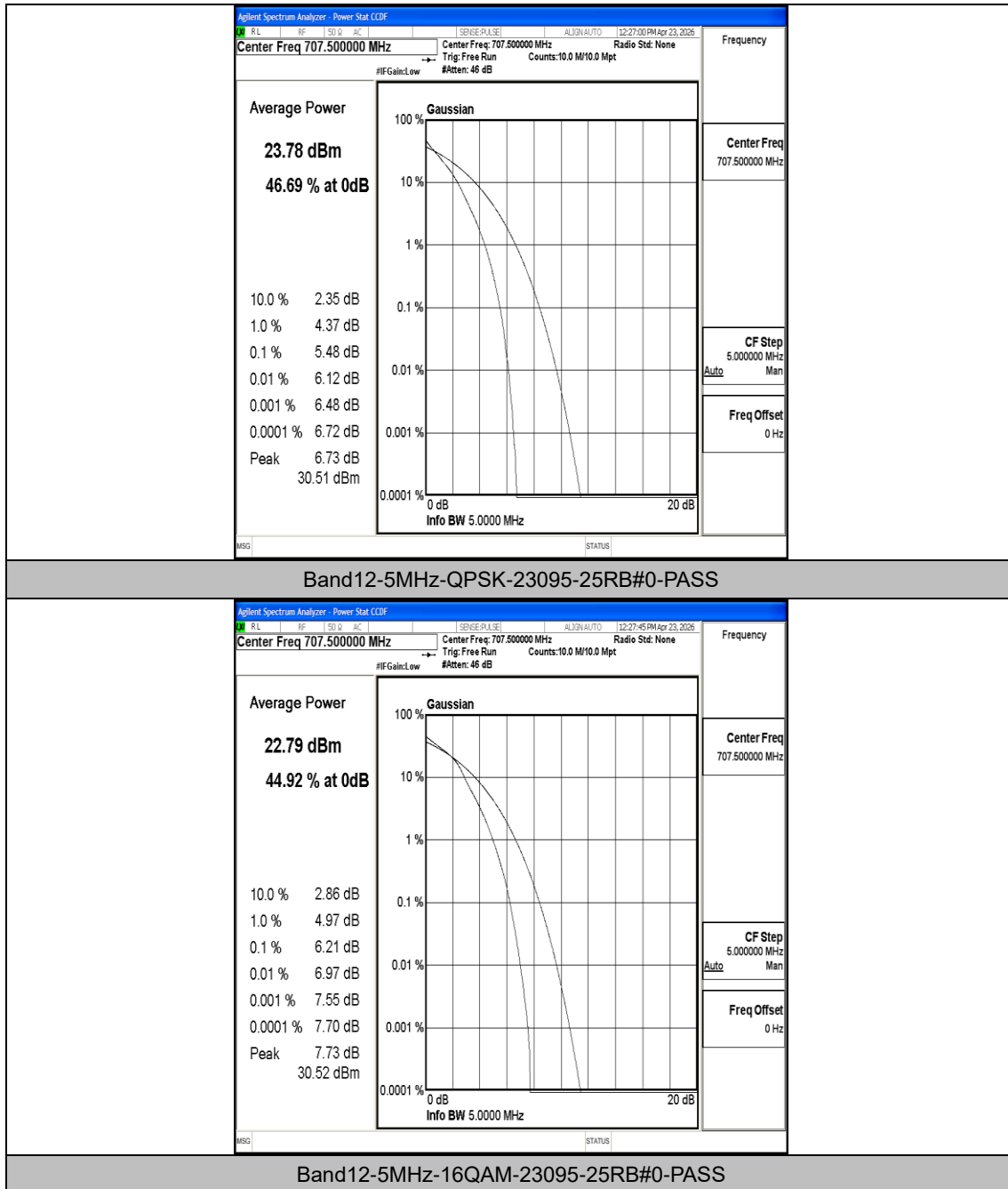


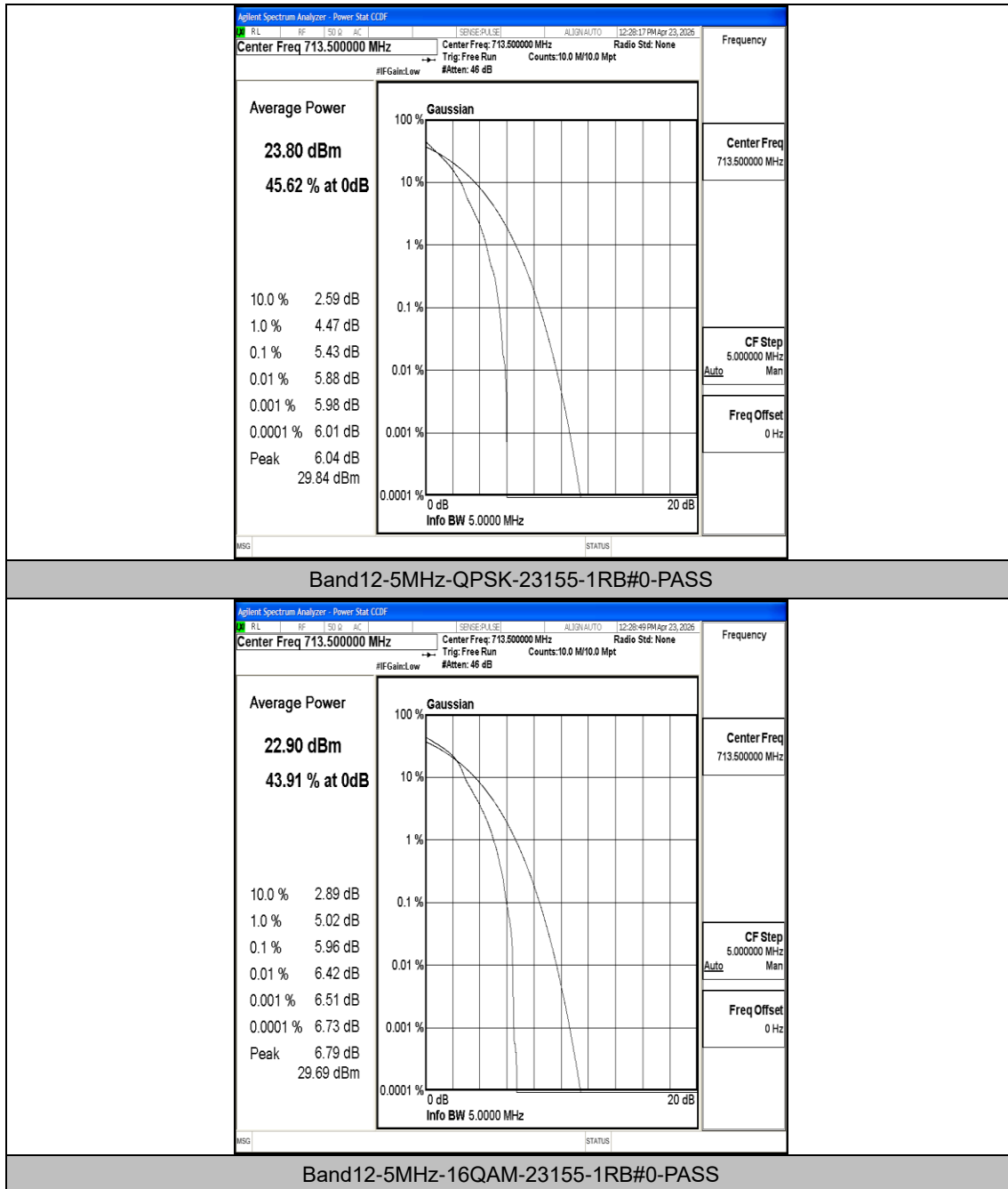


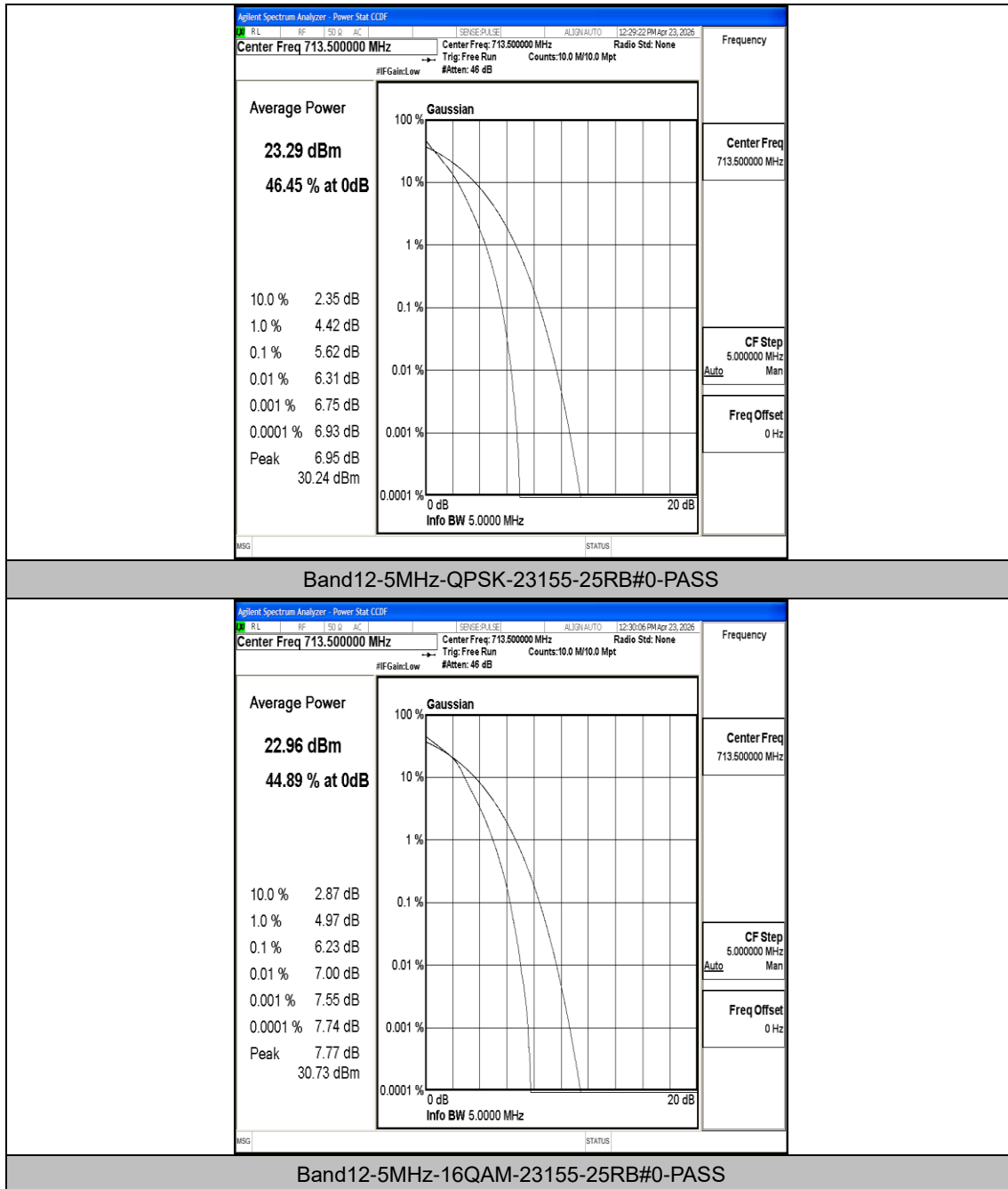


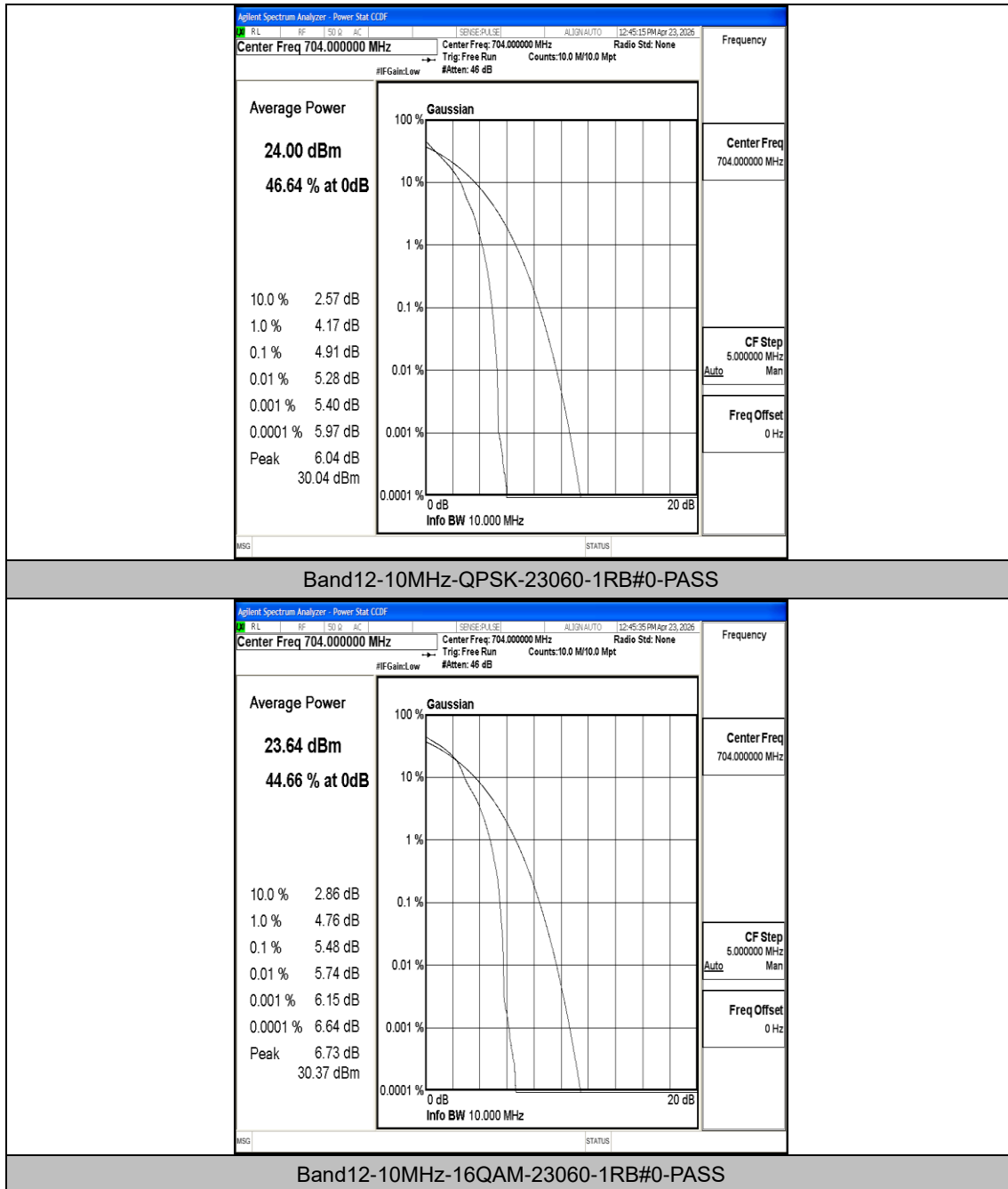


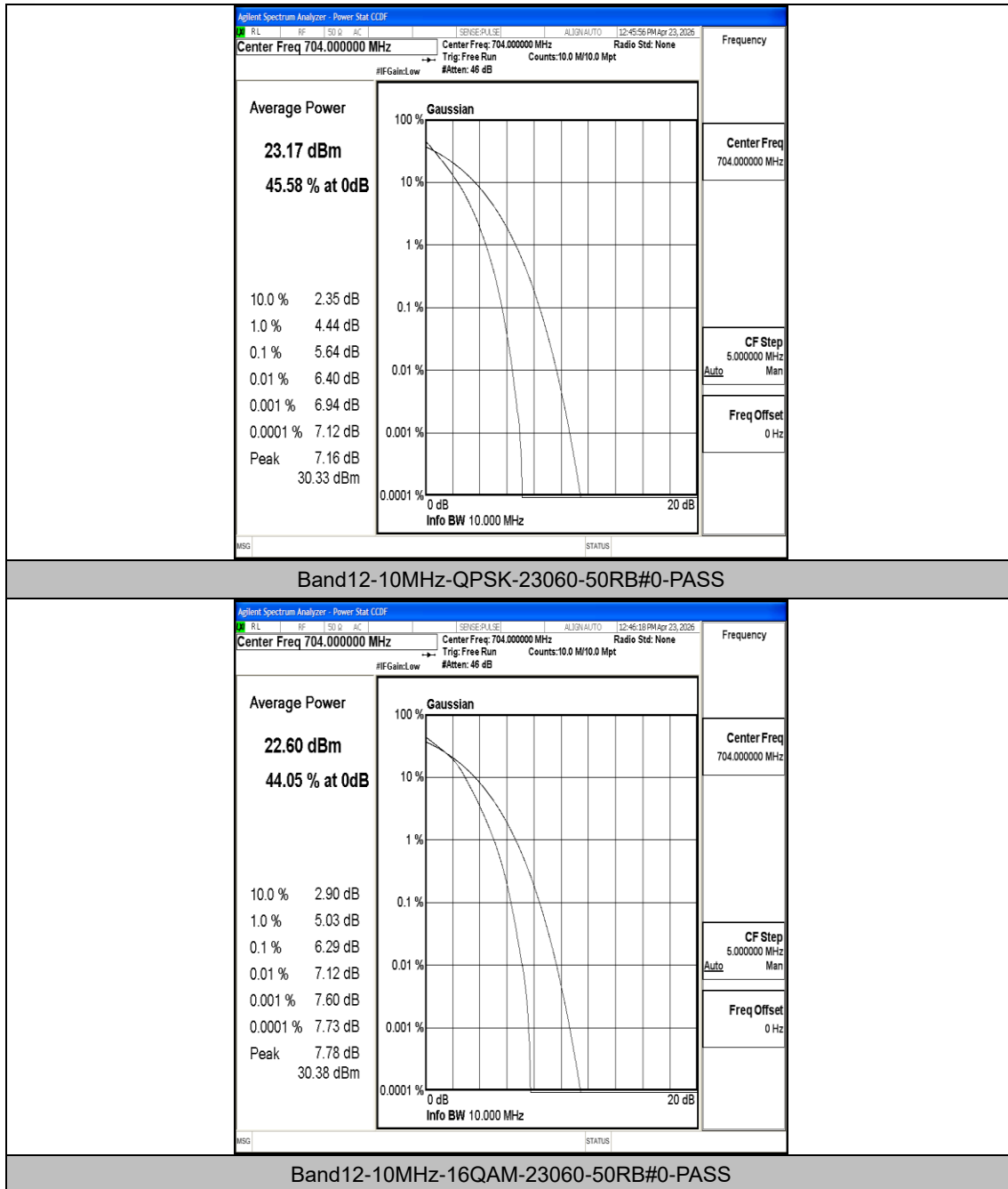


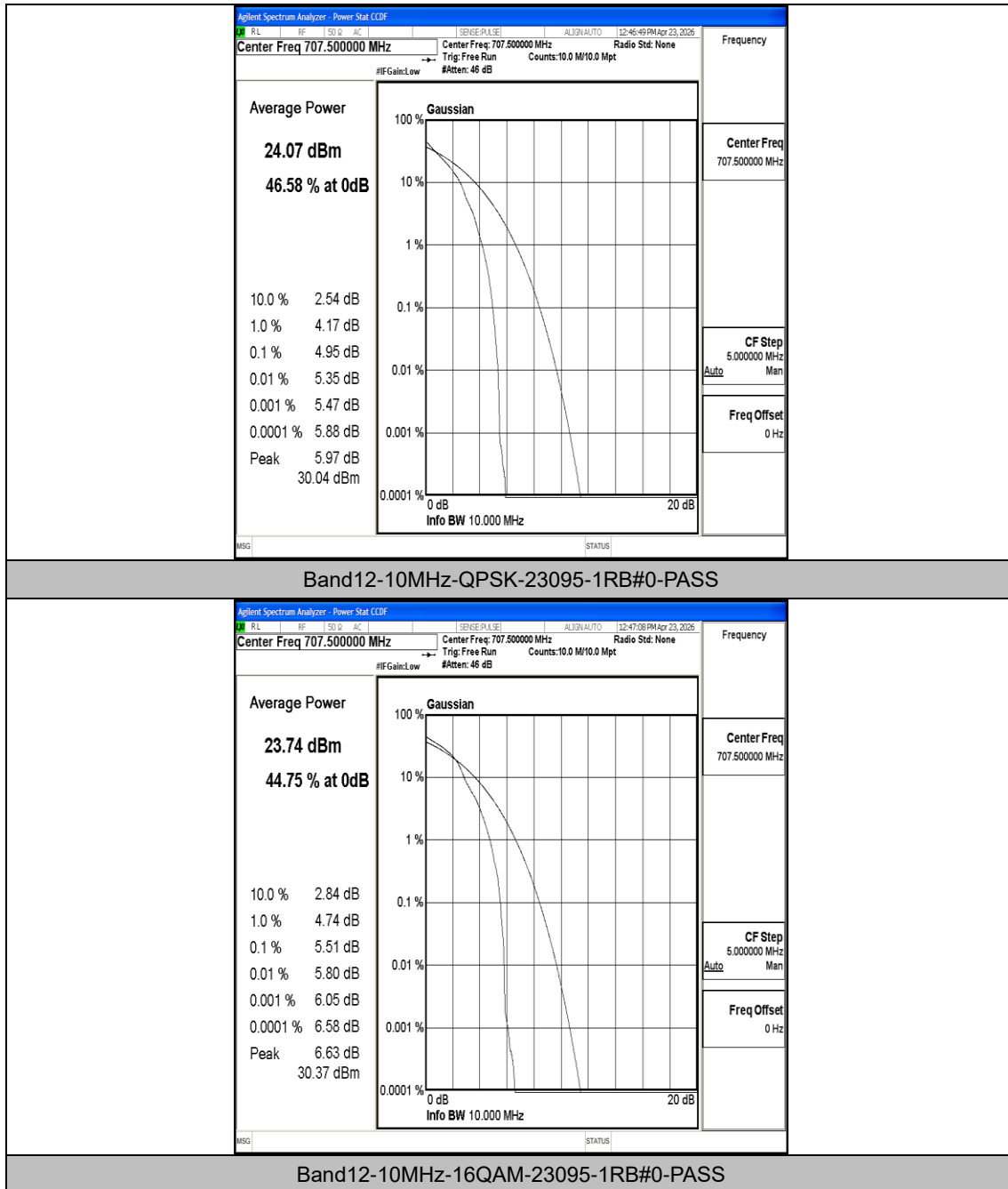


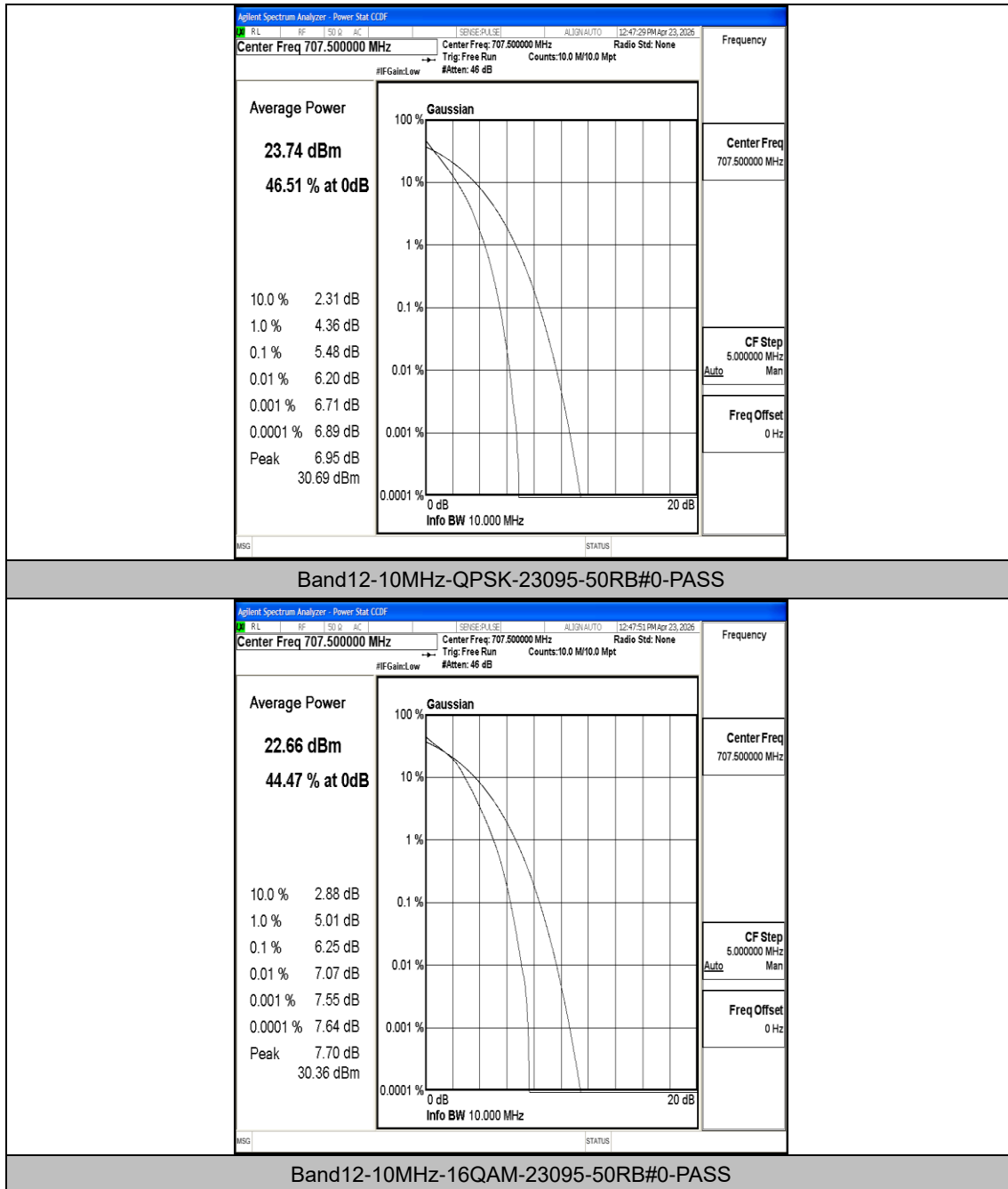


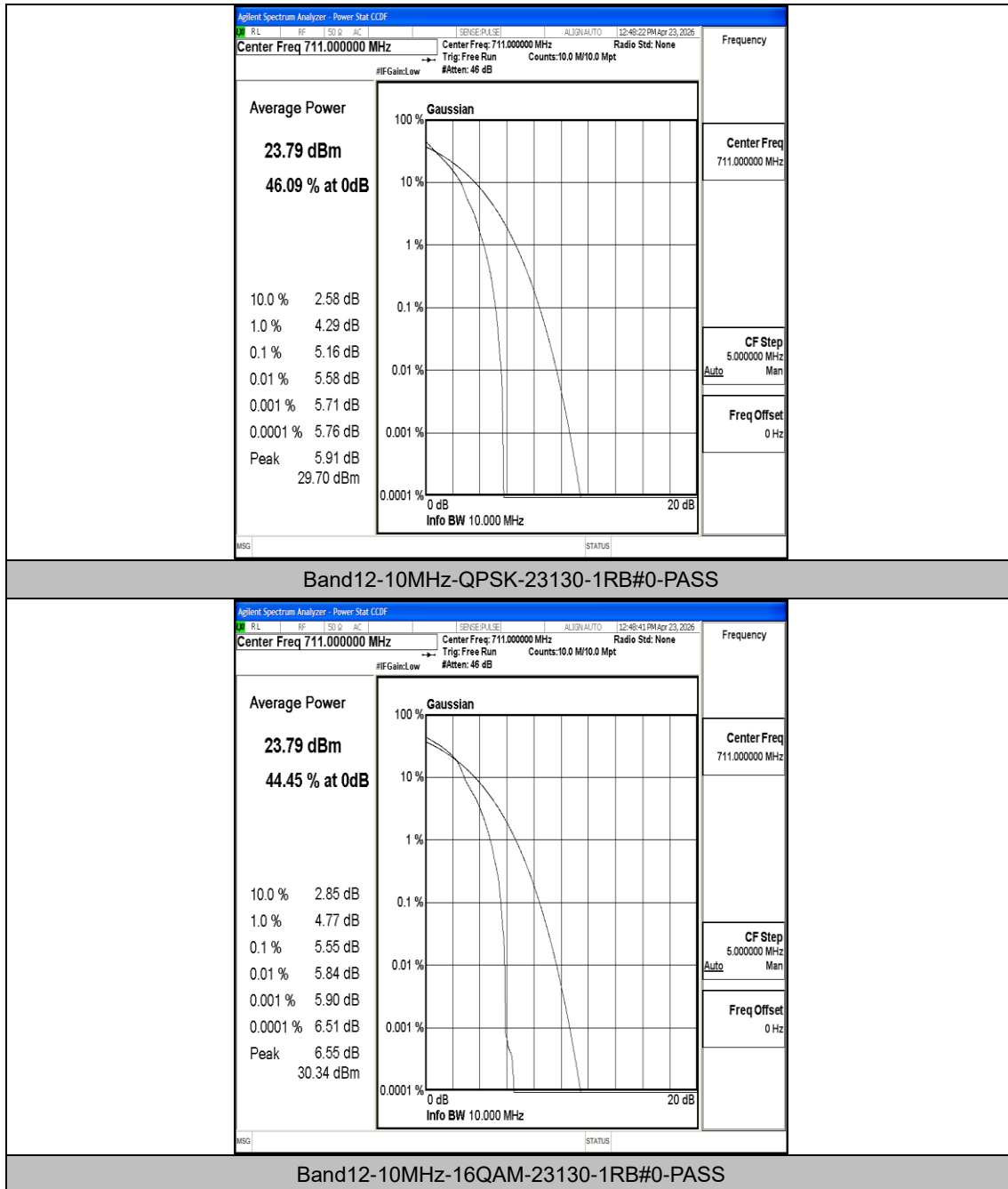


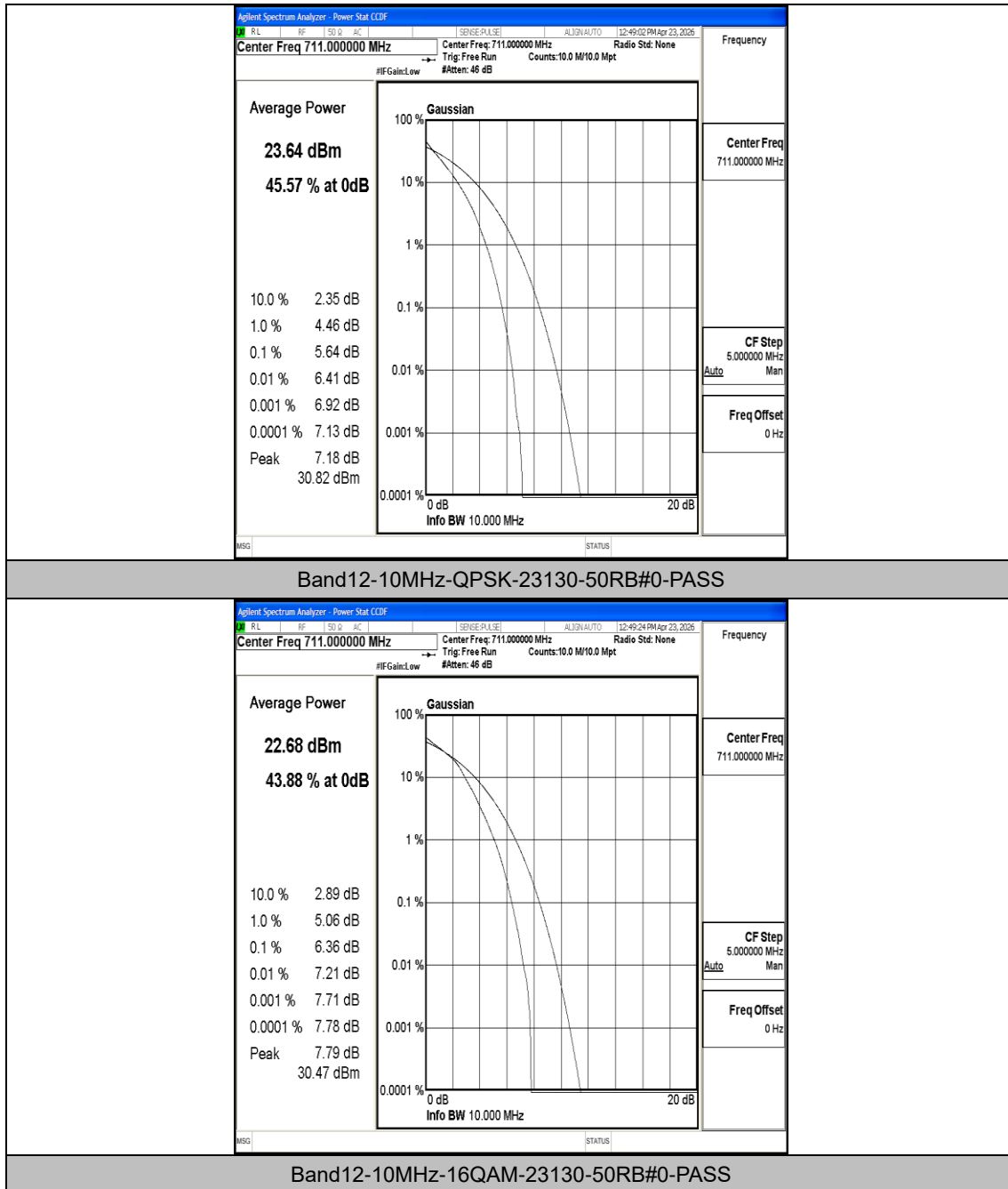










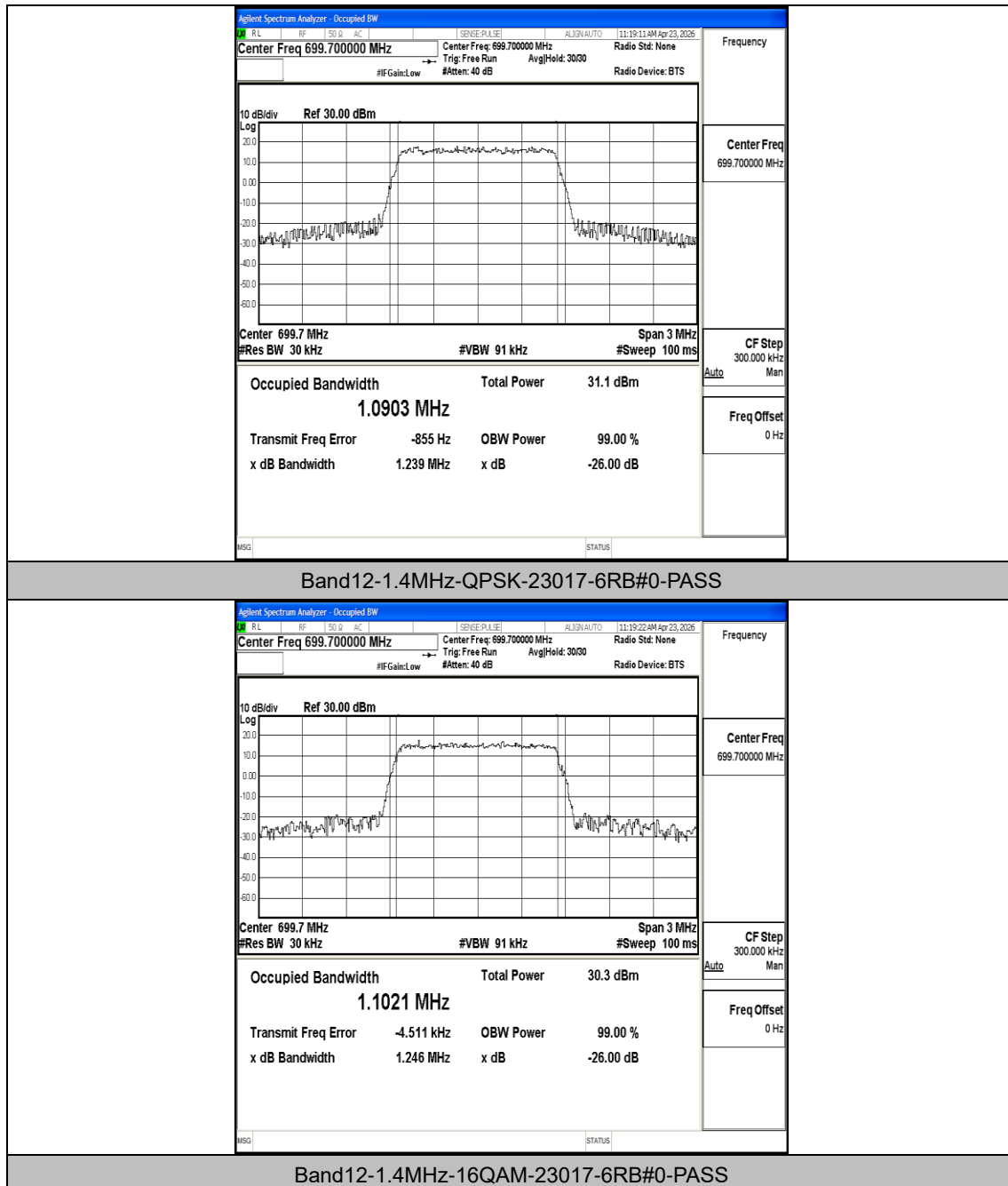


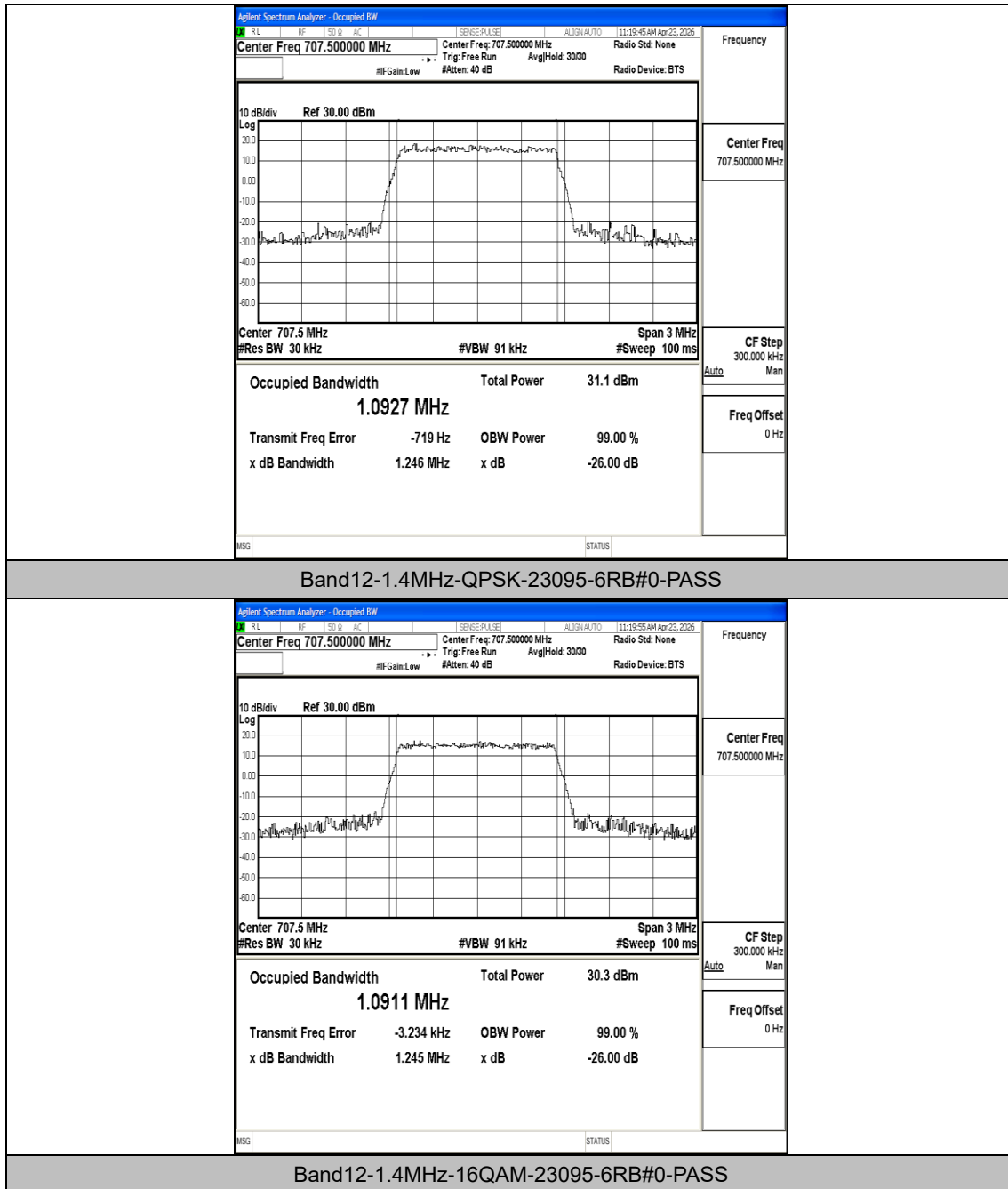
2 26dB Bandwidth and Occupied Bandwidth

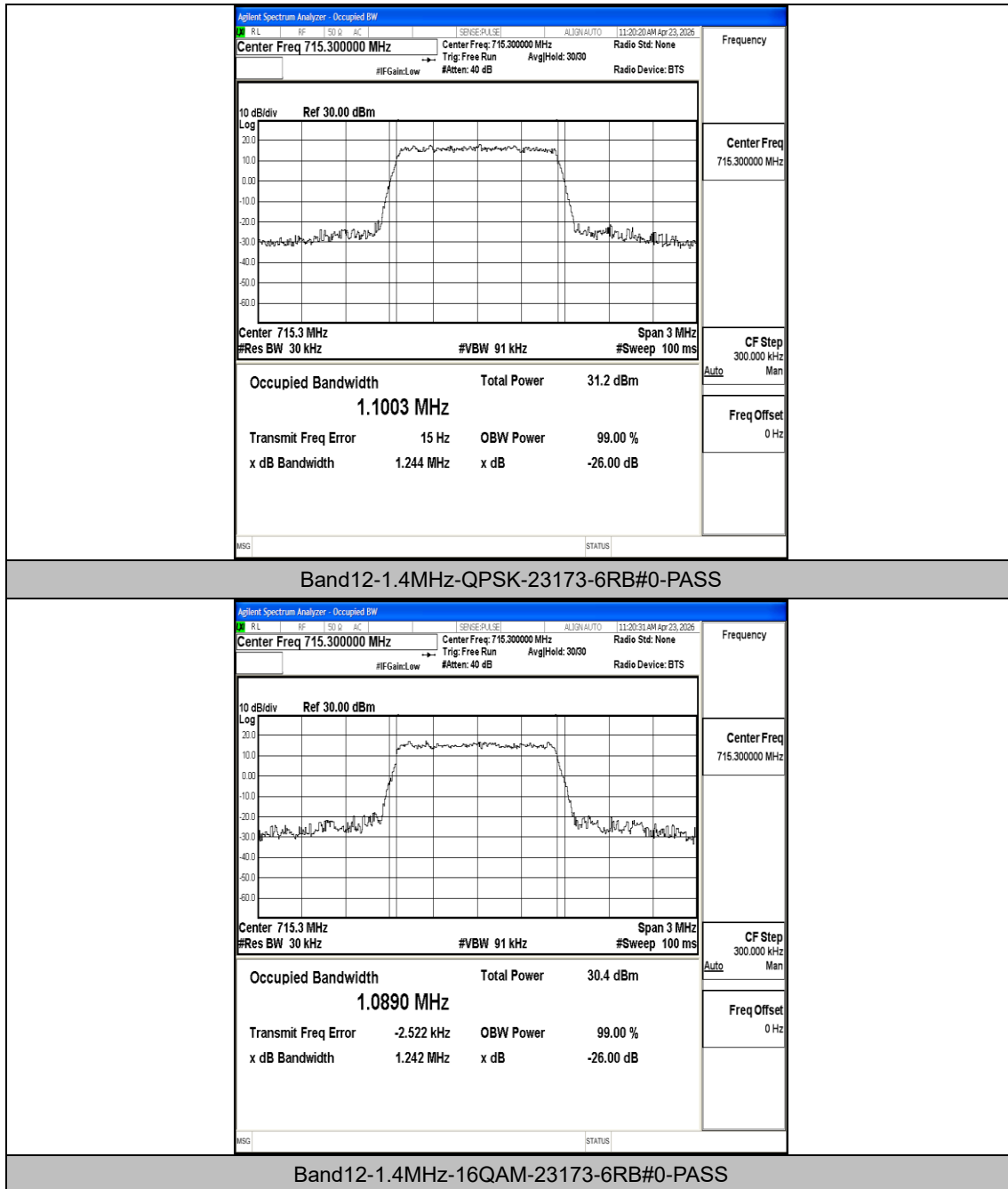
Test Result

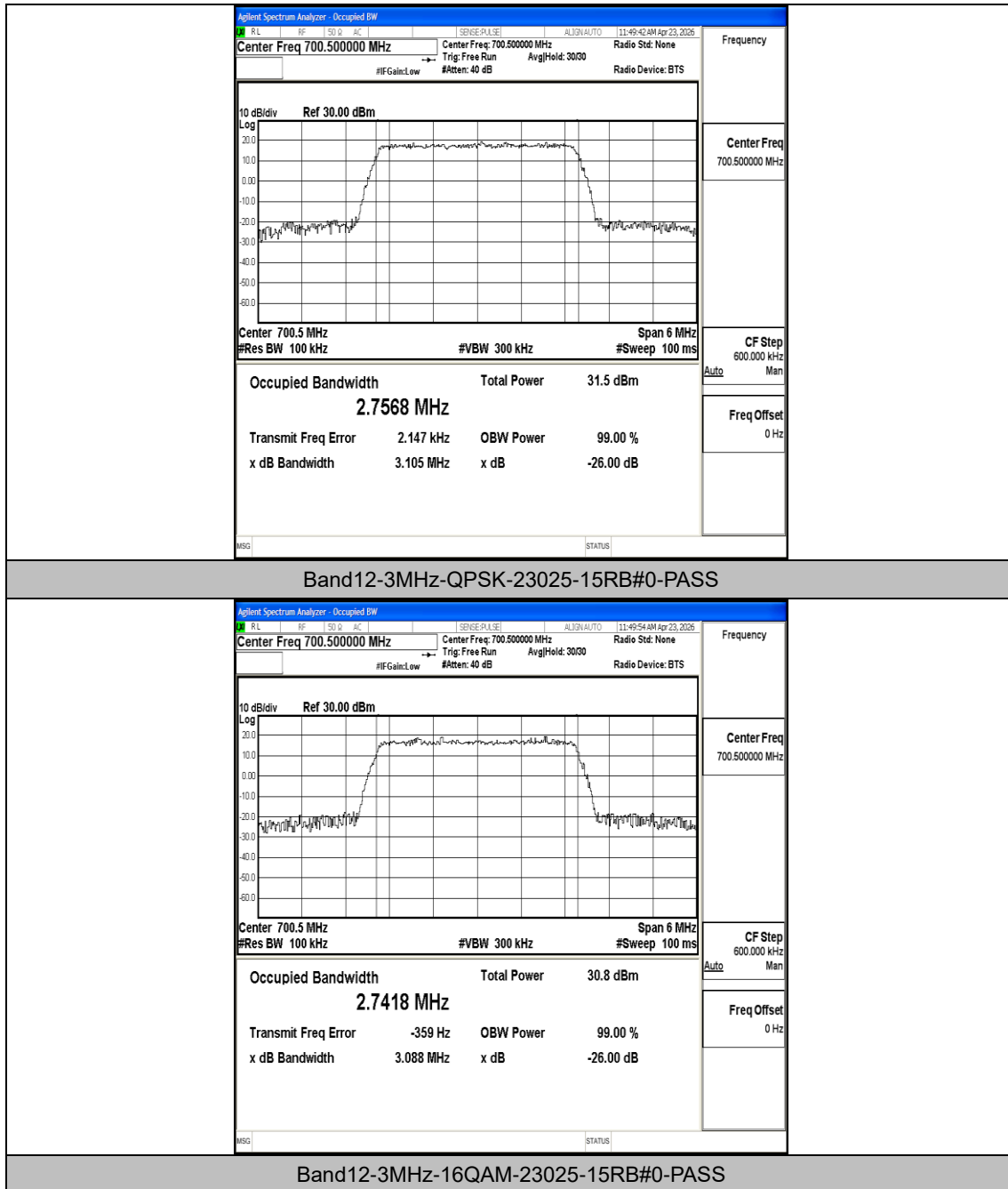
Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band12	1.4MHz	QPSK	23017	6RB#0	1.0903	1.239	PASS
Band12	1.4MHz	16QAM	23017	6RB#0	1.1021	1.246	PASS
Band12	1.4MHz	QPSK	23095	6RB#0	1.0927	1.246	PASS
Band12	1.4MHz	16QAM	23095	6RB#0	1.0911	1.245	PASS
Band12	1.4MHz	QPSK	23173	6RB#0	1.1003	1.244	PASS
Band12	1.4MHz	16QAM	23173	6RB#0	1.0890	1.242	PASS
Band12	3MHz	QPSK	23025	15RB#0	2.7568	3.105	PASS
Band12	3MHz	16QAM	23025	15RB#0	2.7418	3.088	PASS
Band12	3MHz	QPSK	23095	15RB#0	2.7730	3.112	PASS
Band12	3MHz	16QAM	23095	15RB#0	2.7395	3.084	PASS
Band12	3MHz	QPSK	23165	15RB#0	2.7647	3.109	PASS
Band12	3MHz	16QAM	23165	15RB#0	2.7481	3.099	PASS
Band12	5MHz	QPSK	23035	25RB#0	4.5055	4.985	PASS
Band12	5MHz	16QAM	23035	25RB#0	4.5078	4.972	PASS
Band12	5MHz	QPSK	23095	25RB#0	4.5007	4.970	PASS
Band12	5MHz	16QAM	23095	25RB#0	4.4966	4.954	PASS
Band12	5MHz	QPSK	23155	25RB#0	4.5114	4.960	PASS
Band12	5MHz	16QAM	23155	25RB#0	4.5004	4.982	PASS
Band12	10MHz	QPSK	23060	50RB#0	8.9789	9.885	PASS
Band12	10MHz	16QAM	23060	50RB#0	9.0015	9.907	PASS
Band12	10MHz	QPSK	23095	50RB#0	8.9687	9.912	PASS
Band12	10MHz	16QAM	23095	50RB#0	8.9708	9.880	PASS
Band12	10MHz	QPSK	23130	50RB#0	8.9941	9.883	PASS
Band12	10MHz	16QAM	23130	50RB#0	8.9839	9.924	PASS

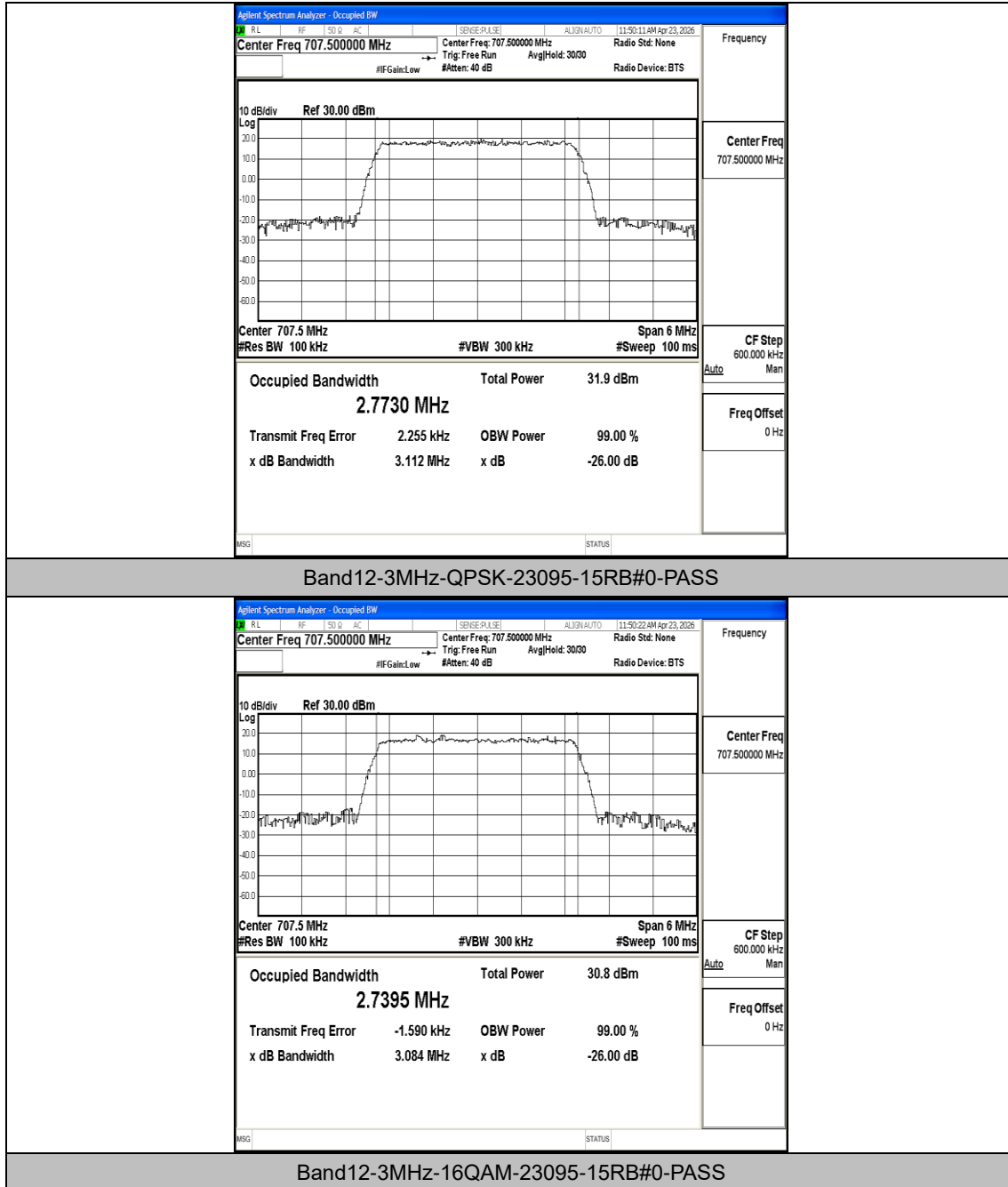
Test Graphs

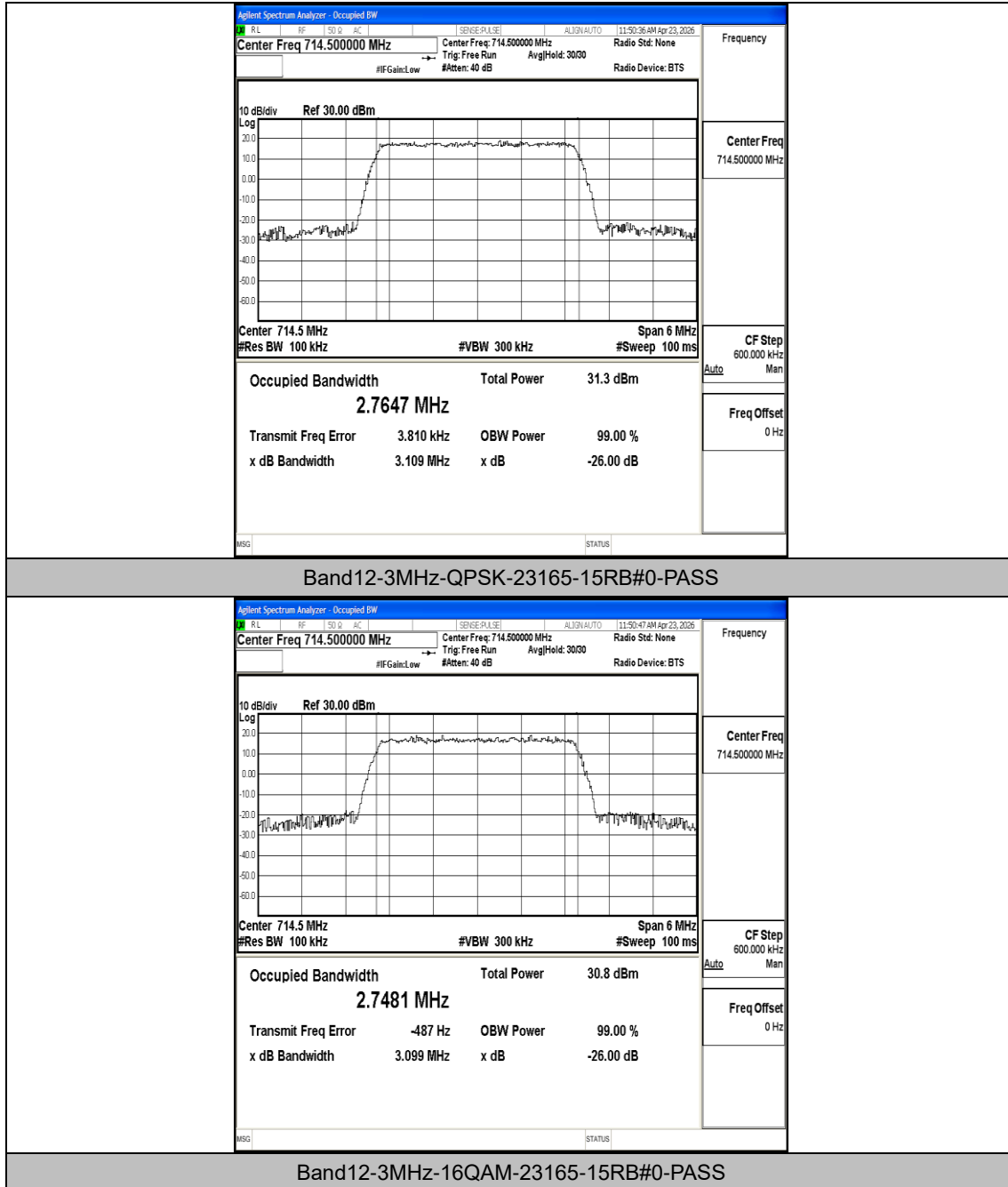


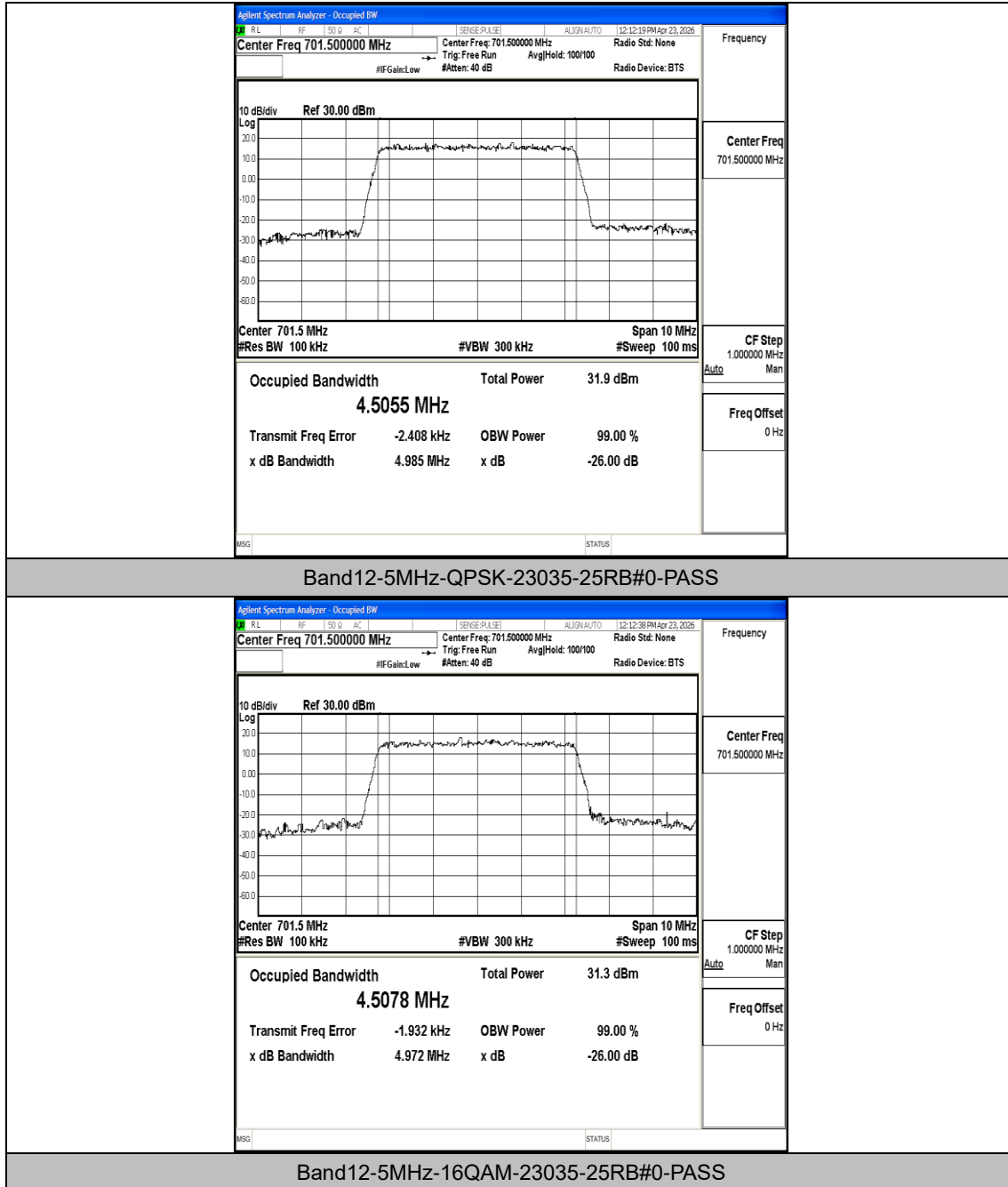


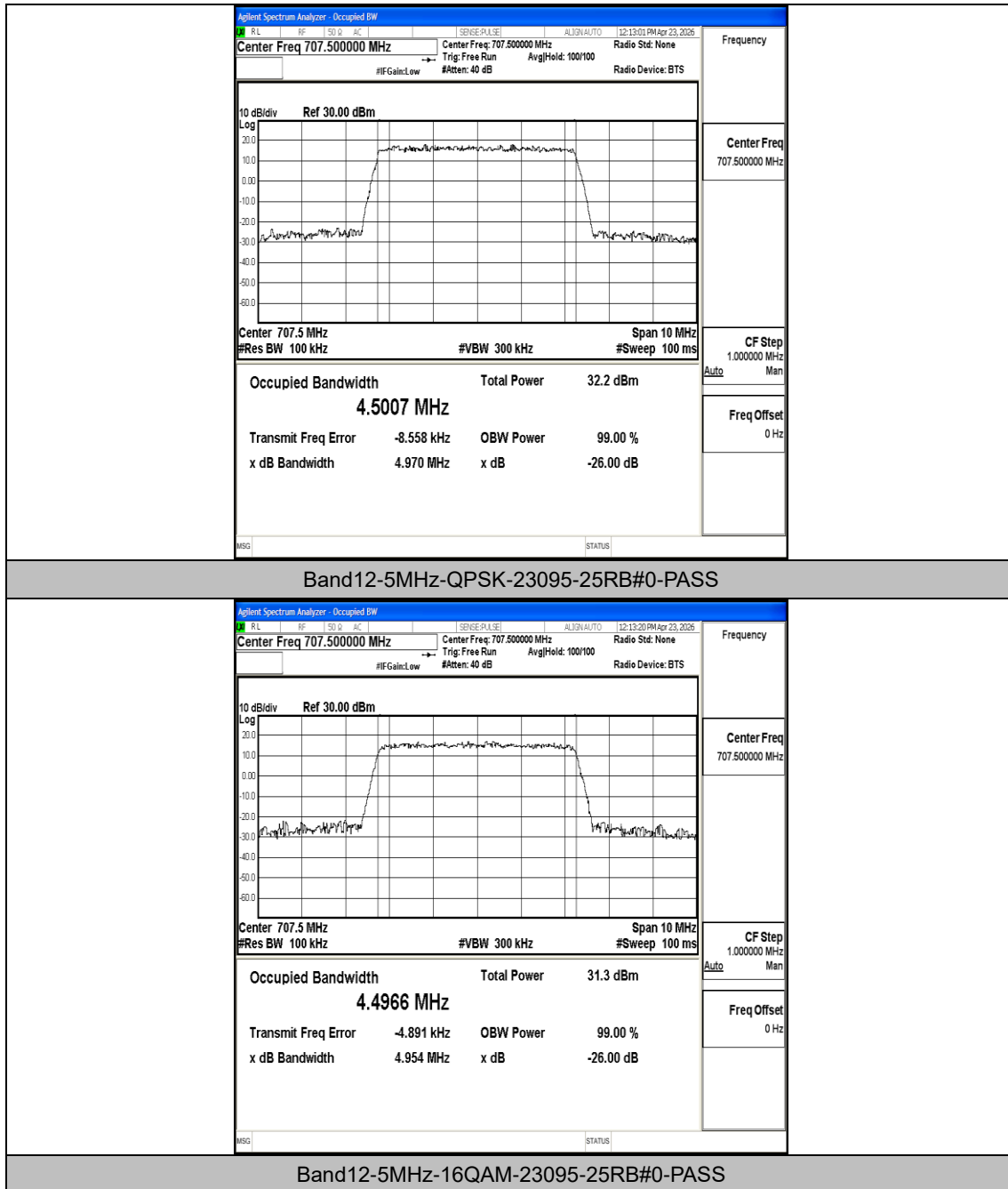


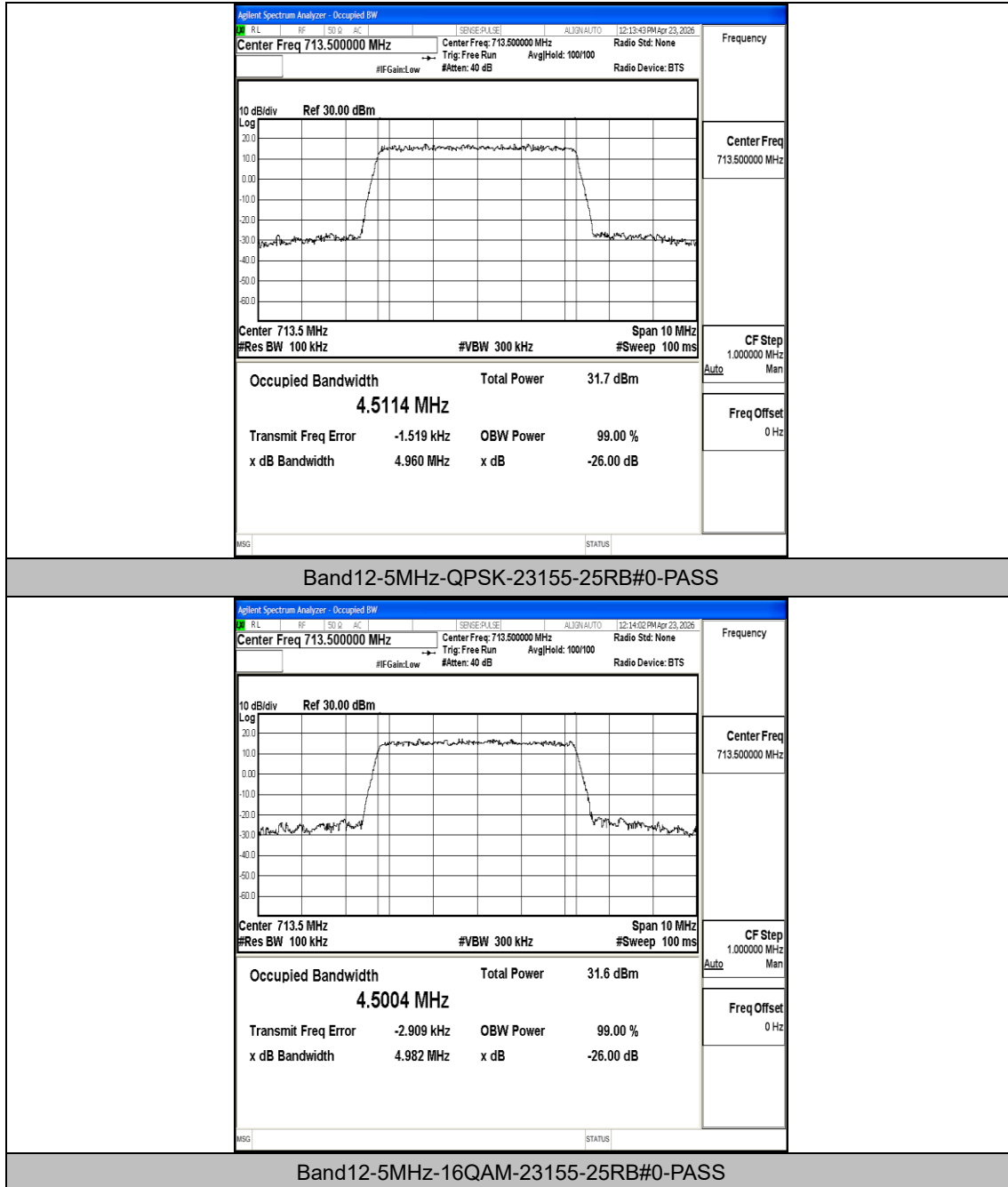


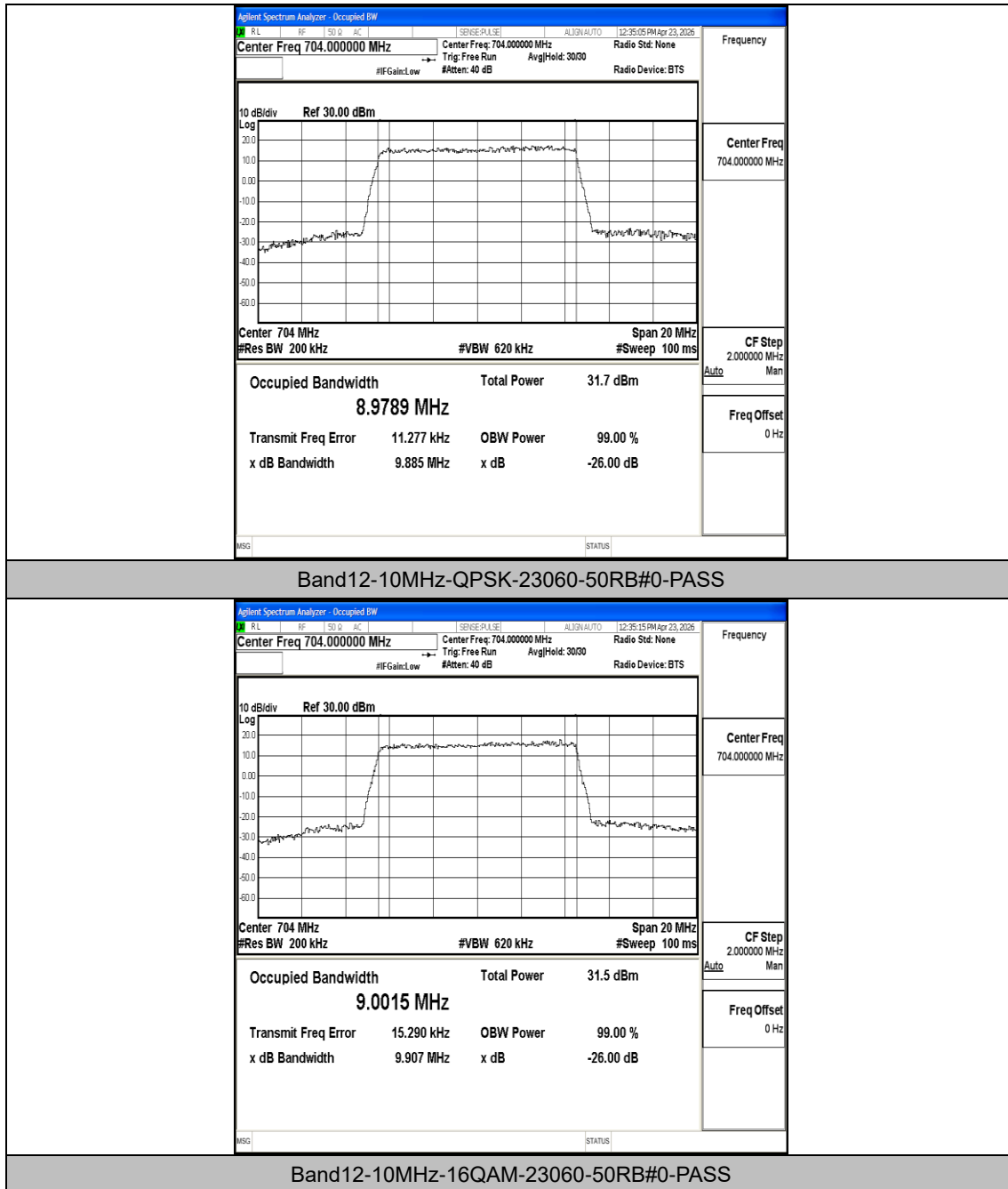


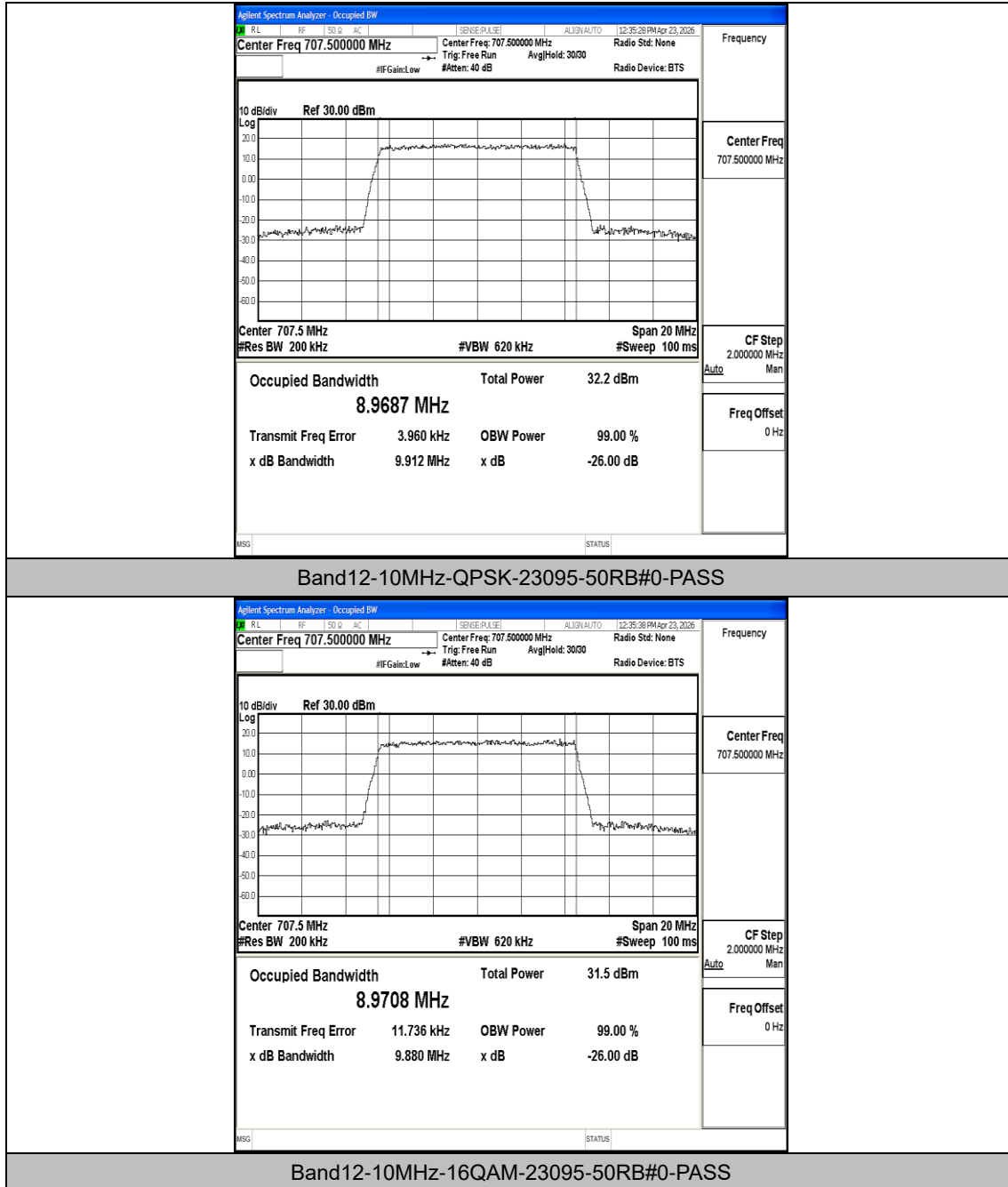


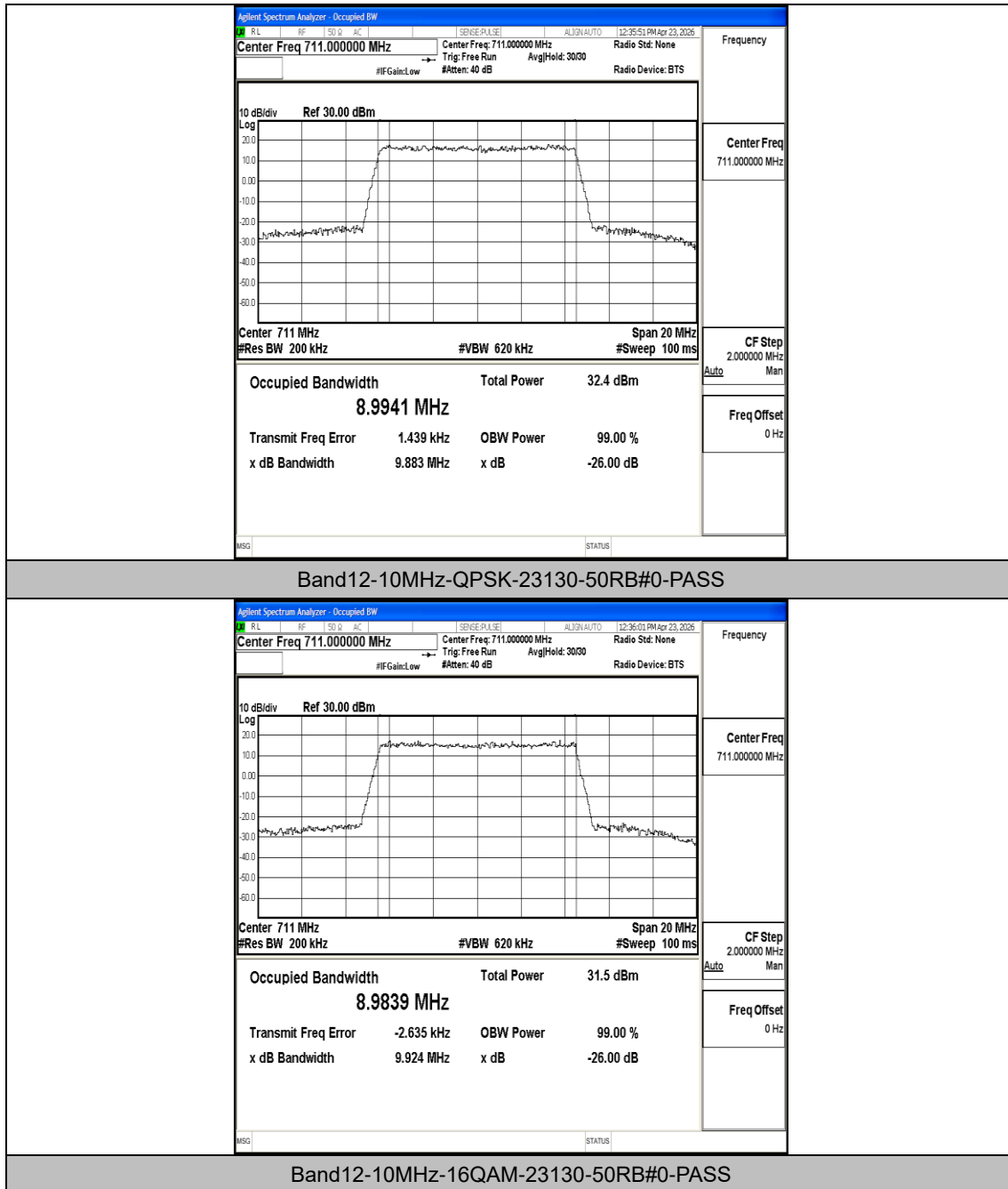










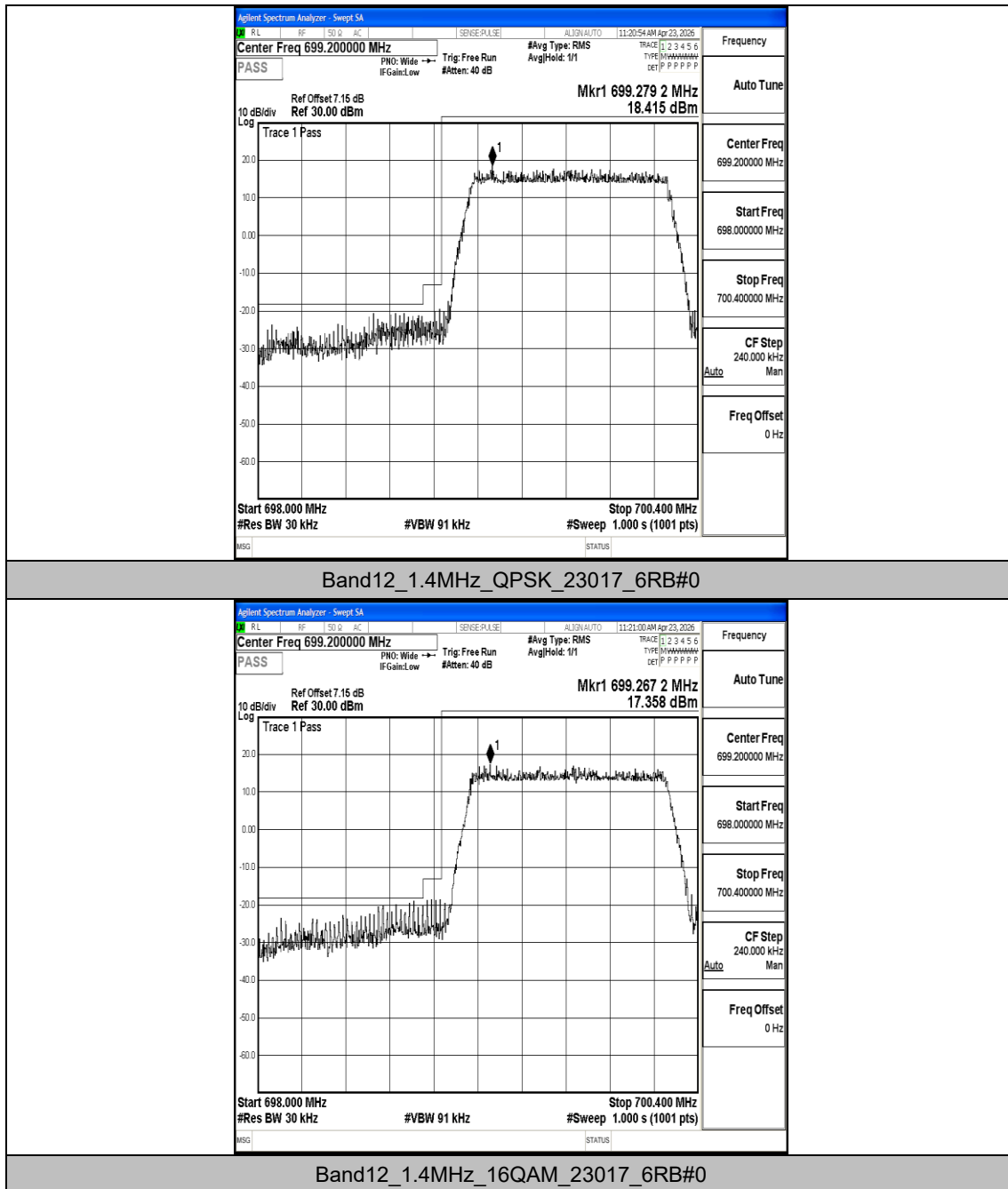


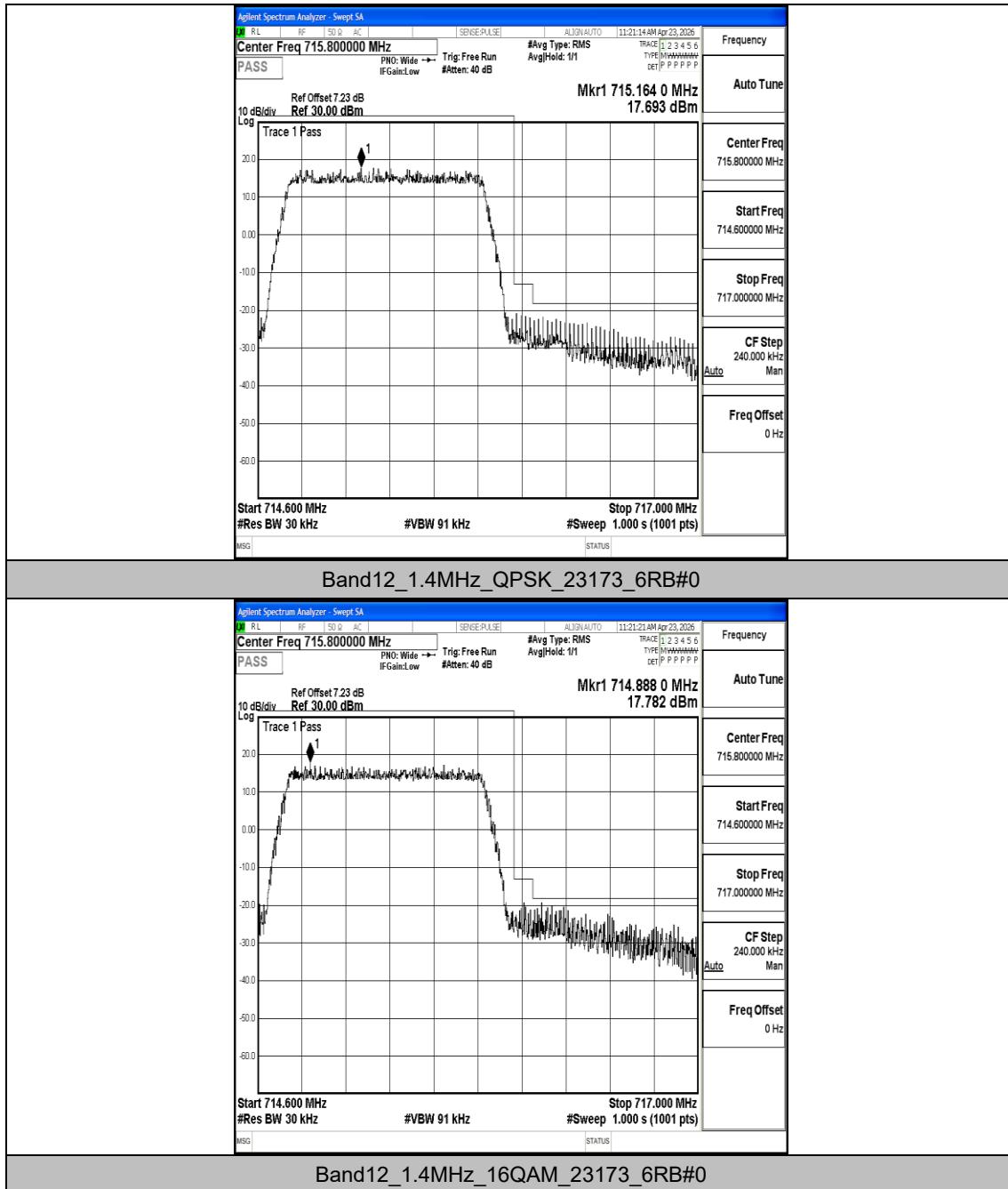
3 Band Edge

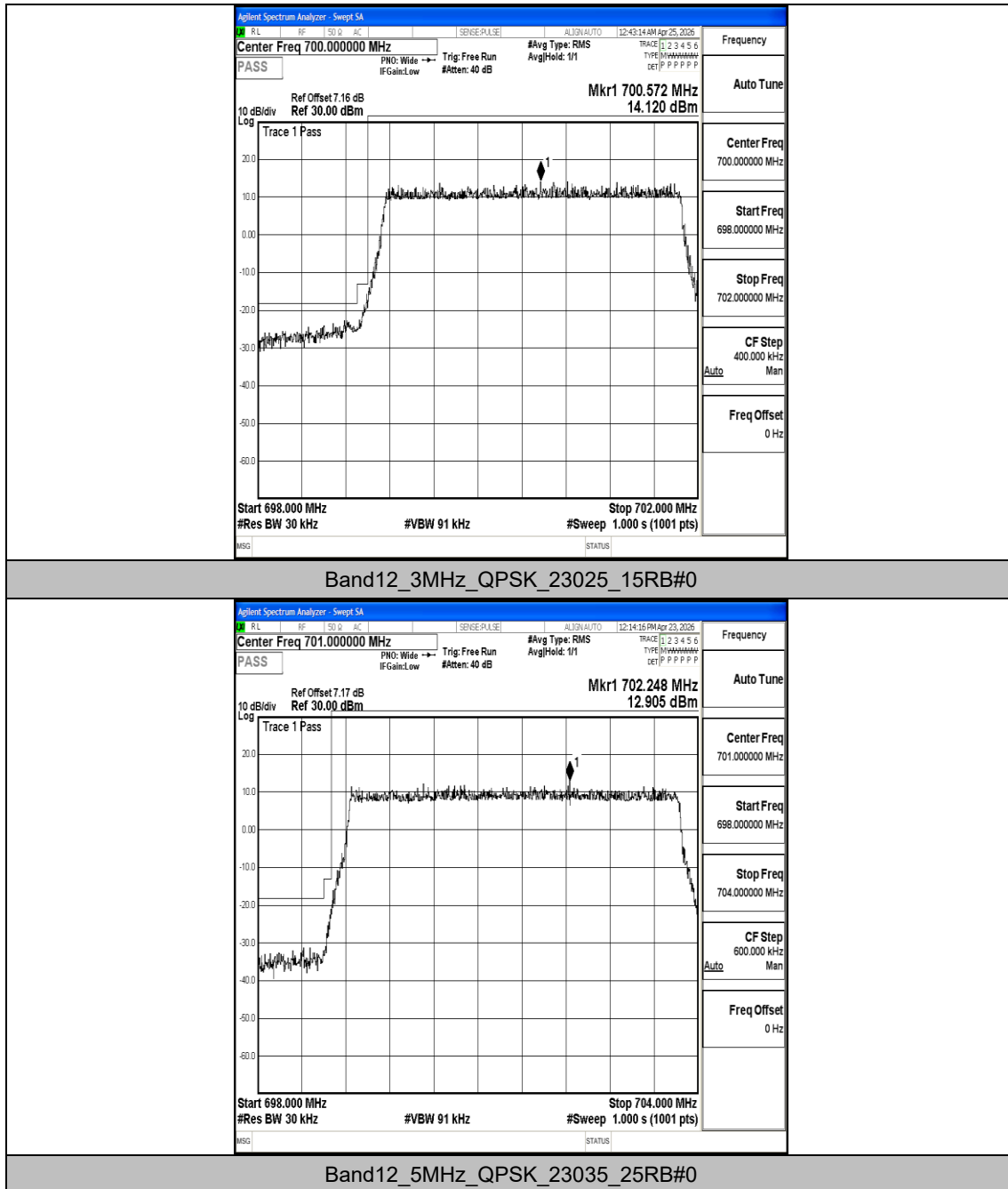
Test Result

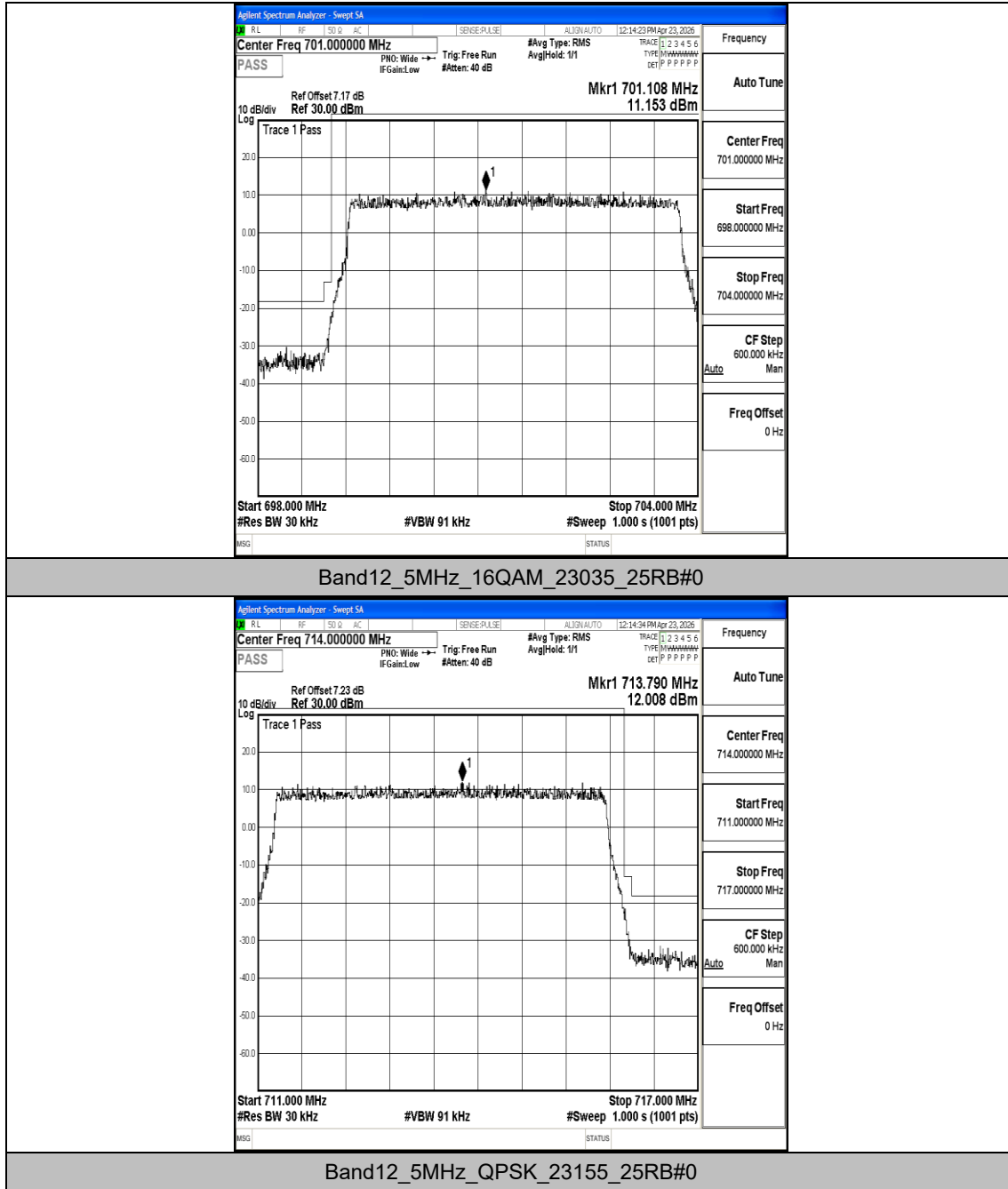
Band	Bandwidth	Modulation	Channel	RB Configuration	Peak Frequency	Result(dBm)	Verdict
Band12	1.4MHz	QPSK	23017	6RB#0	698.63	-20.61	PASS
Band12	1.4MHz	16QAM	23017	6RB#0	698.85	-18.99	PASS
Band12	1.4MHz	QPSK	23173	6RB#0	716.16	-21.80	PASS
Band12	1.4MHz	16QAM	23173	6RB#0	716.15	-19.39	PASS
Band12	3MHz	QPSK	23025	15RB#0	698.99	-15.78	PASS
Band12	5MHz	QPSK	23035	25RB#0	698.99	-22.51	PASS
Band12	5MHz	16QAM	23035	25RB#0	699.00	-22.27	PASS
Band12	5MHz	QPSK	23155	25RB#0	716.00	-21.53	PASS
Band12	3MHz	16QAM	23025	15RB#0	698.99	-18.22	PASS
Band12	3MHz	QPSK	23165	15RB#0	716.00	-17.12	PASS
Band12	3MHz	16QAM	23165	15RB#0	716.00	-18.10	PASS
Band12	5MHz	16QAM	23155	25RB#0	716.03	-23.54	PASS
Band12	10MHz	QPSK	23060	50RB#0	698.32	-33.98	PASS
Band12	10MHz	16QAM	23060	50RB#0	698.88	-32.76	PASS
Band12	10MHz	QPSK	23130	50RB#0	716.11	-33.59	PASS
Band12	10MHz	16QAM	23130	50RB#0	716.91	-34.09	PASS

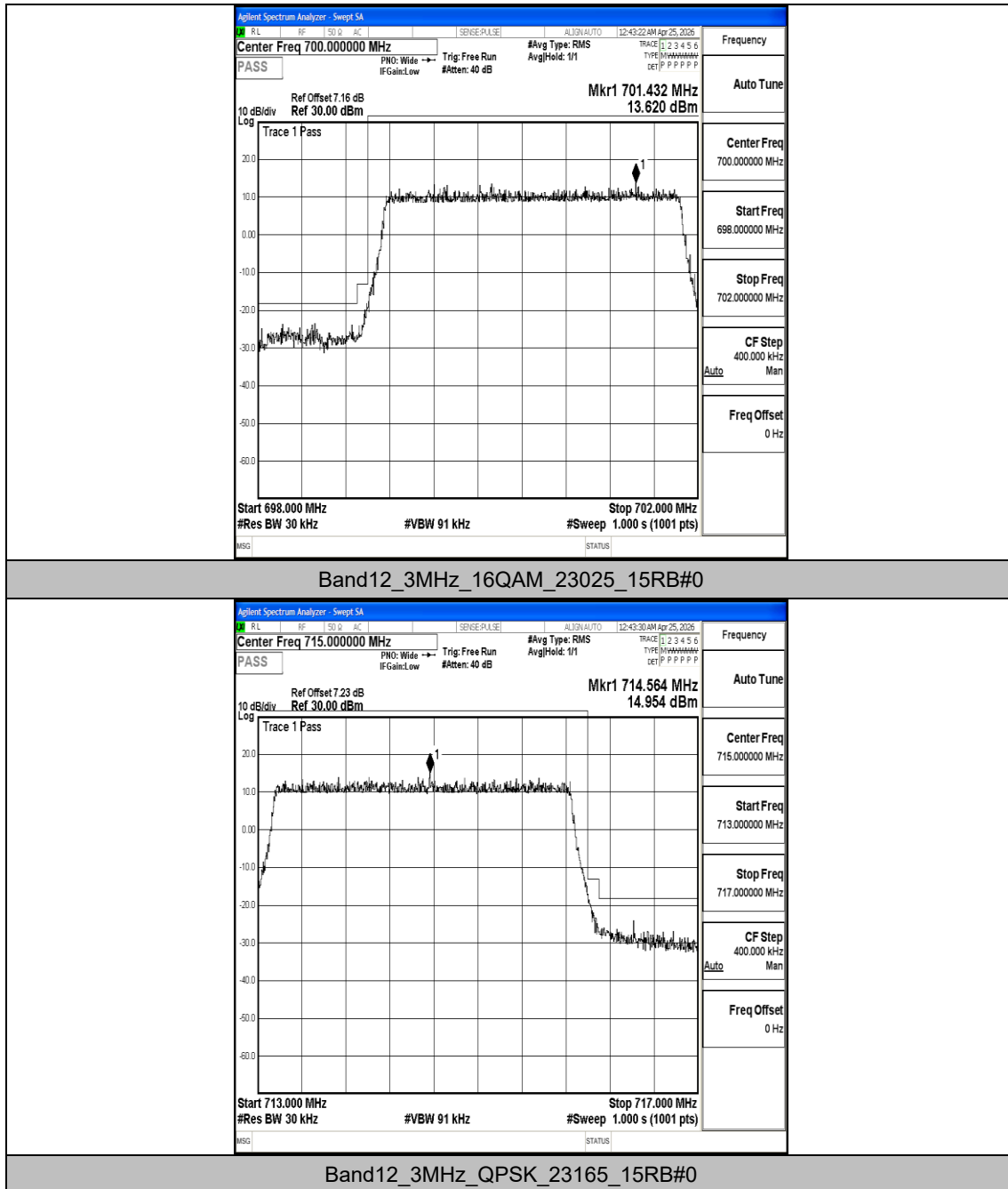
Test Graphs

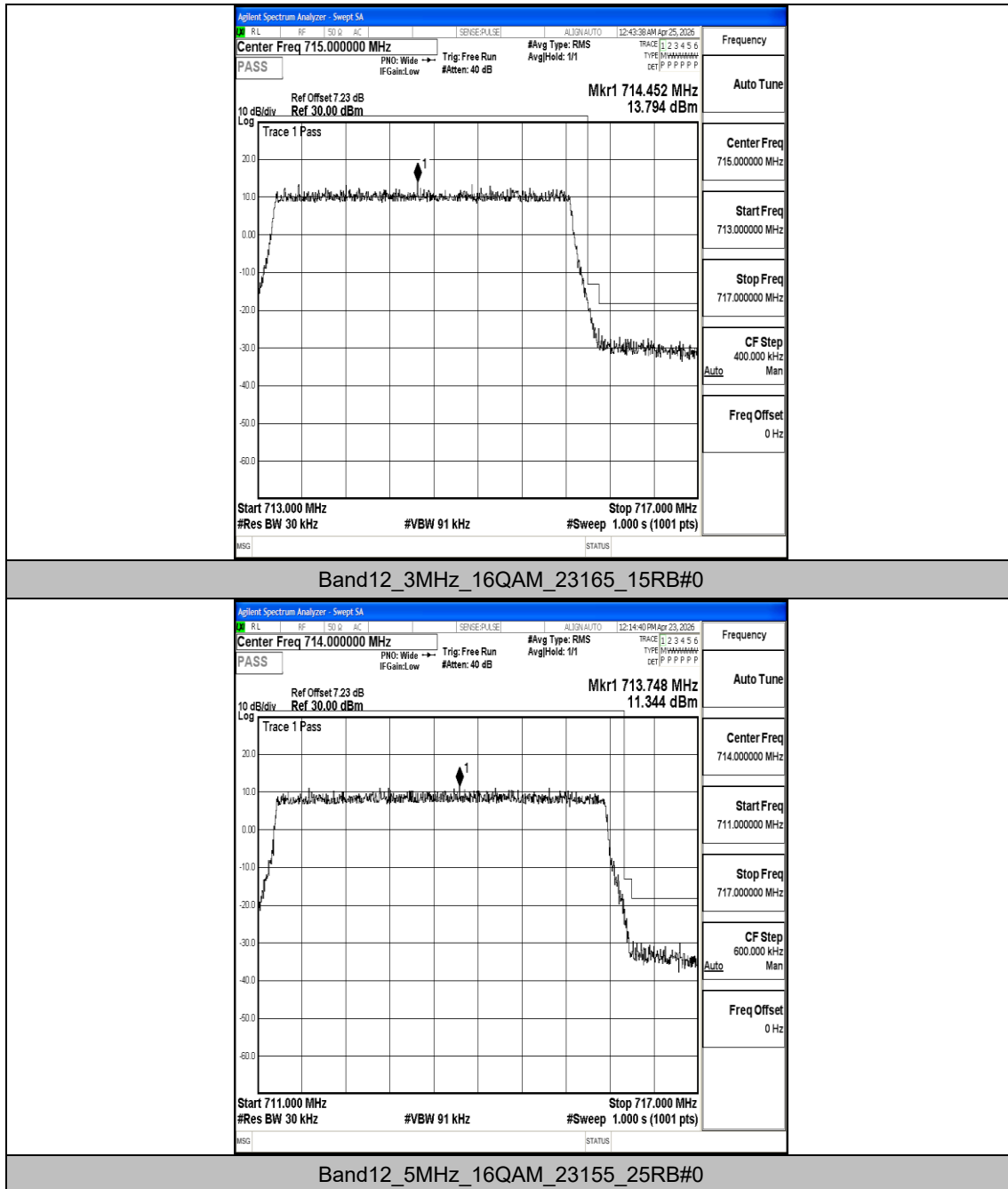


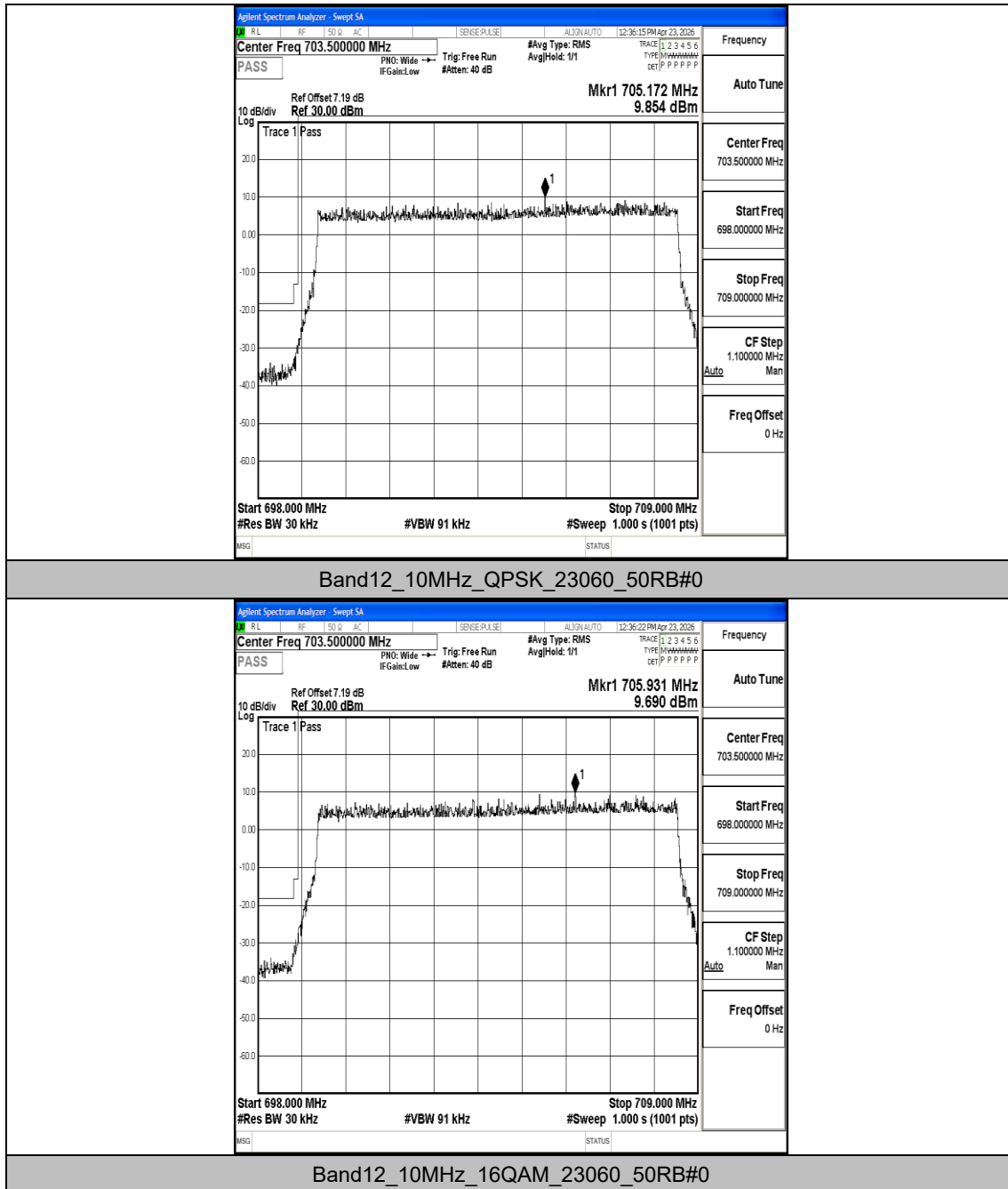


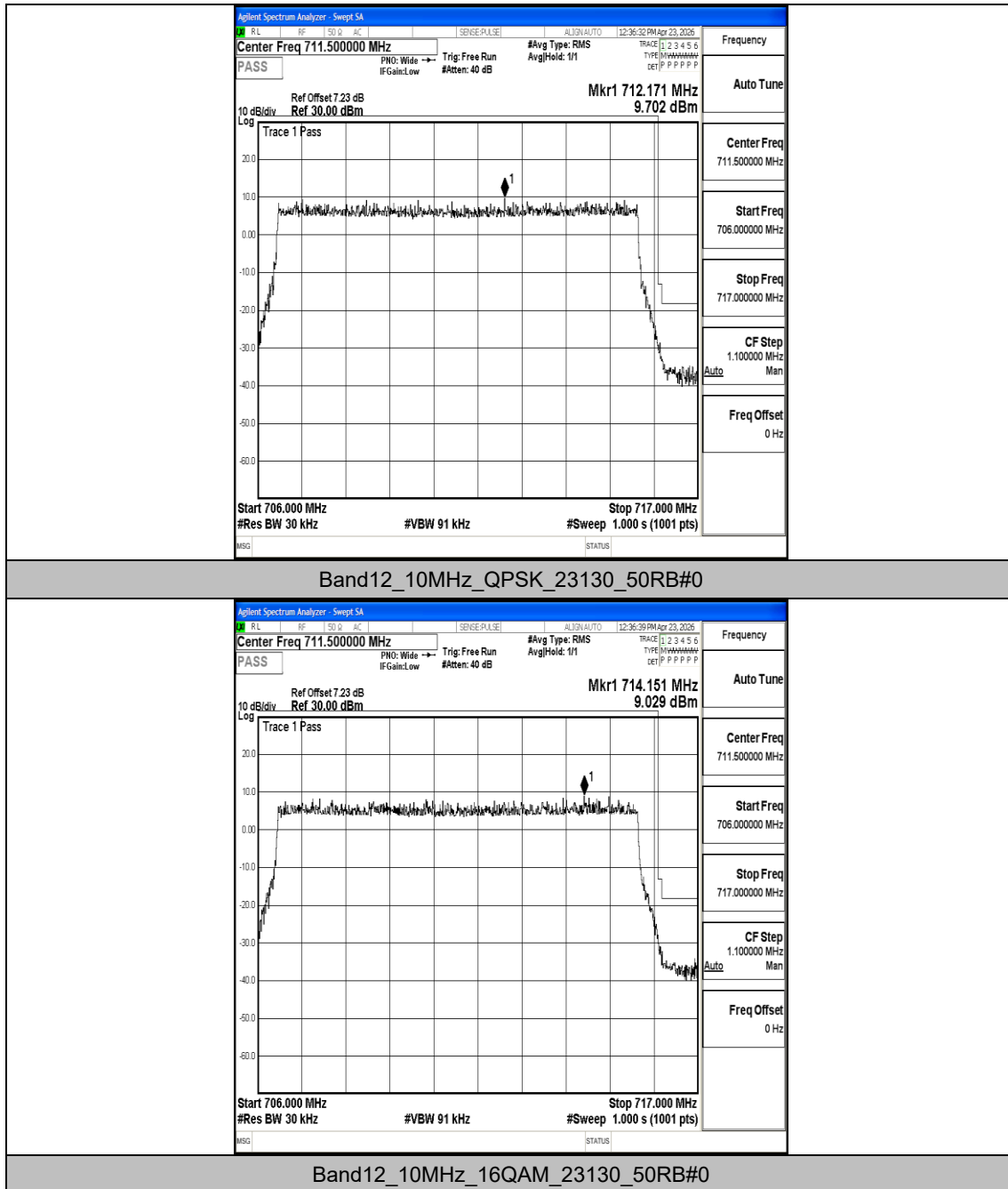












4 Conducted Spurious Emission

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Frequency Range	Result (dBm)	Verdict
Band12	1.4MHz	QPSK	23017	1RB#0	0.009~0.15	-58.53	PASS
Band12	1.4MHz	QPSK	23017	1RB#0	0.15~30	-32.75	PASS
Band12	1.4MHz	QPSK	23017	1RB#0	30~1000	-52.73	PASS
Band12	1.4MHz	QPSK	23017	1RB#0	1000~3000	-36.63	PASS
Band12	1.4MHz	QPSK	23017	1RB#0	3000~10000	-34.48	PASS
Band12	1.4MHz	16QAM	23017	1RB#0	0.009~0.15	-56.36	PASS
Band12	1.4MHz	16QAM	23017	1RB#0	0.15~30	-29.91	PASS
Band12	1.4MHz	16QAM	23017	1RB#0	30~1000	-51.16	PASS
Band12	1.4MHz	16QAM	23017	1RB#0	1000~3000	-35.02	PASS
Band12	1.4MHz	16QAM	23017	1RB#0	3000~10000	-35.36	PASS
Band12	1.4MHz	QPSK	23095	1RB#0	0.009~0.15	-55.87	PASS
Band12	1.4MHz	QPSK	23095	1RB#0	0.15~30	-28.37	PASS
Band12	1.4MHz	QPSK	23095	1RB#0	30~1000	-47.09	PASS
Band12	1.4MHz	QPSK	23095	1RB#0	1000~3000	-35.20	PASS
Band12	1.4MHz	QPSK	23095	1RB#0	3000~10000	-35.10	PASS
Band12	1.4MHz	16QAM	23095	1RB#0	0.009~0.15	-57.73	PASS
Band12	1.4MHz	16QAM	23095	1RB#0	0.15~30	-32.74	PASS
Band12	1.4MHz	16QAM	23095	1RB#0	30~1000	-48.95	PASS
Band12	1.4MHz	16QAM	23095	1RB#0	1000~3000	-34.19	PASS
Band12	1.4MHz	16QAM	23095	1RB#0	3000~10000	-35.02	PASS
Band12	1.4MHz	QPSK	23173	1RB#0	0.009~0.15	-57.17	PASS
Band12	1.4MHz	QPSK	23173	1RB#0	0.15~30	-30.57	PASS
Band12	1.4MHz	QPSK	23173	1RB#0	30~1000	-51.67	PASS
Band12	1.4MHz	QPSK	23173	1RB#0	1000~3000	-35.48	PASS
Band12	1.4MHz	QPSK	23173	1RB#0	3000~10000	-34.34	PASS
Band12	1.4MHz	16QAM	23173	1RB#0	0.009~0.15	-55.44	PASS
Band12	1.4MHz	16QAM	23173	1RB#0	0.15~30	-31.20	PASS
Band12	1.4MHz	16QAM	23173	1RB#0	30~1000	-50.99	PASS
Band12	1.4MHz	16QAM	23173	1RB#0	1000~3000	-34.89	PASS
Band12	1.4MHz	16QAM	23173	1RB#0	3000~10000	-35.21	PASS
Band12	3MHz	QPSK	23025	1RB#0	0.009~0.15	-56.60	PASS
Band12	3MHz	QPSK	23025	1RB#0	0.15~30	-31.09	PASS
Band12	3MHz	QPSK	23025	1RB#0	30~1000	-51.35	PASS
Band12	3MHz	QPSK	23025	1RB#0	1000~3000	-36.03	PASS
Band12	3MHz	QPSK	23025	1RB#0	3000~10000	-35.26	PASS
Band12	3MHz	16QAM	23025	1RB#0	0.009~0.15	-55.17	PASS

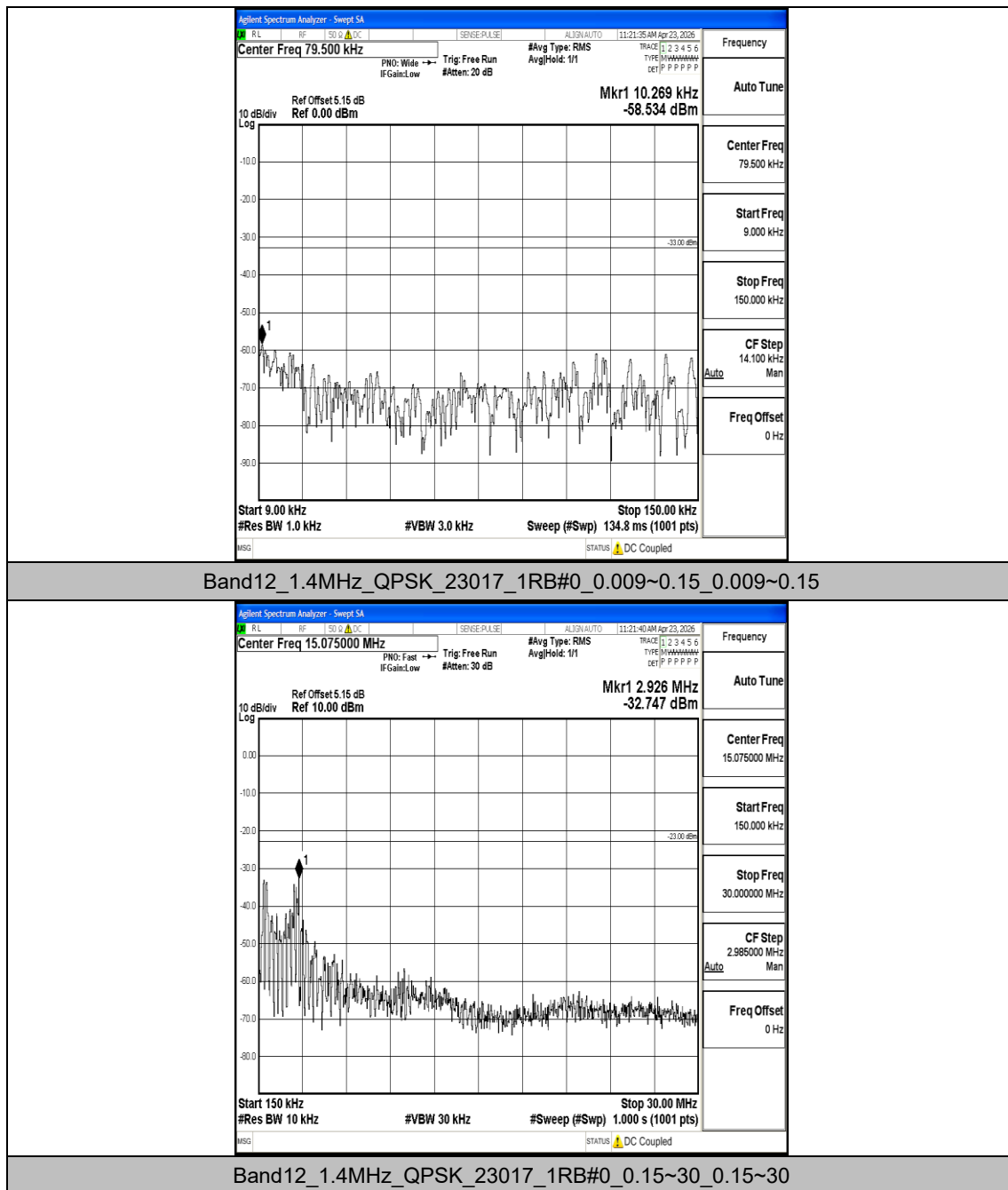


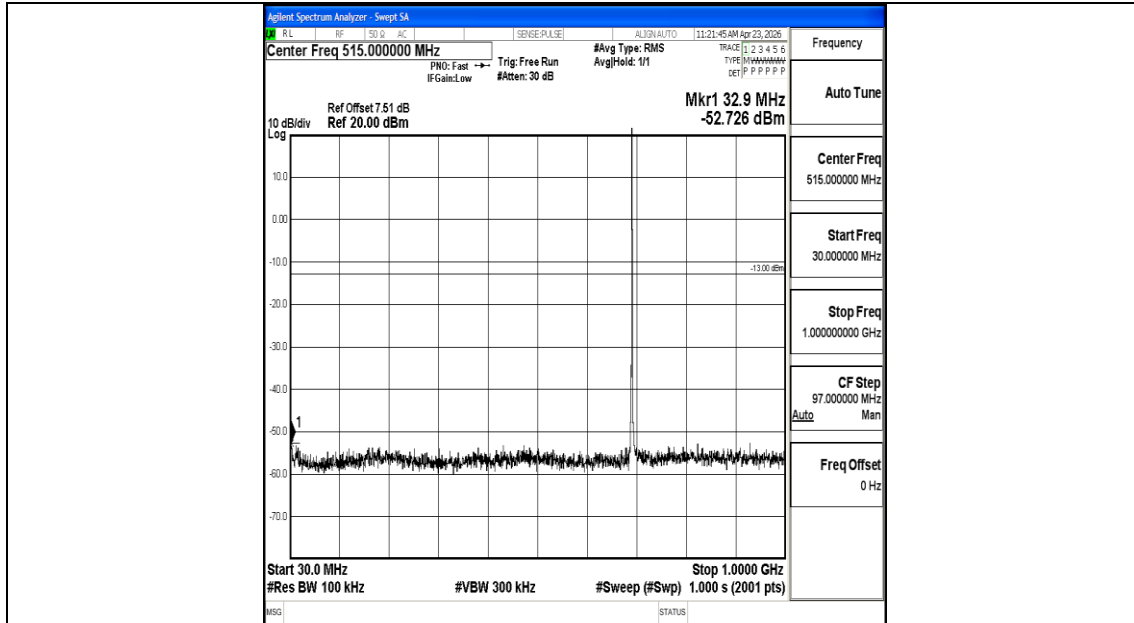
Band12	3MHz	16QAM	23025	1RB#0	0.15~30	-33.36	PASS
Band12	3MHz	16QAM	23025	1RB#0	30~1000	-50.96	PASS
Band12	3MHz	16QAM	23025	1RB#0	1000~3000	-35.65	PASS
Band12	3MHz	16QAM	23025	1RB#0	3000~10000	-35.05	PASS
Band12	3MHz	QPSK	23095	1RB#0	0.009~0.15	-55.54	PASS
Band12	3MHz	QPSK	23095	1RB#0	0.15~30	-31.95	PASS
Band12	3MHz	QPSK	23095	1RB#0	30~1000	-51.64	PASS
Band12	3MHz	QPSK	23095	1RB#0	1000~3000	-35.13	PASS
Band12	3MHz	QPSK	23095	1RB#0	3000~10000	-35.18	PASS
Band12	3MHz	16QAM	23095	1RB#0	0.009~0.15	-57.05	PASS
Band12	3MHz	16QAM	23095	1RB#0	0.15~30	-28.62	PASS
Band12	3MHz	16QAM	23095	1RB#0	30~1000	-52.54	PASS
Band12	3MHz	16QAM	23095	1RB#0	1000~3000	-37.39	PASS
Band12	3MHz	16QAM	23095	1RB#0	3000~10000	-35.49	PASS
Band12	3MHz	QPSK	23165	1RB#0	0.009~0.15	-59.72	PASS
Band12	3MHz	QPSK	23165	1RB#0	0.15~30	-30.52	PASS
Band12	3MHz	QPSK	23165	1RB#0	30~1000	-51.77	PASS
Band12	3MHz	QPSK	23165	1RB#0	1000~3000	-33.42	PASS
Band12	3MHz	QPSK	23165	1RB#0	3000~10000	-34.49	PASS
Band12	3MHz	16QAM	23165	1RB#0	0.009~0.15	-56.60	PASS
Band12	3MHz	16QAM	23165	1RB#0	0.15~30	-32.60	PASS
Band12	3MHz	16QAM	23165	1RB#0	30~1000	-51.66	PASS
Band12	3MHz	16QAM	23165	1RB#0	1000~3000	-36.60	PASS
Band12	3MHz	16QAM	23165	1RB#0	3000~10000	-35.00	PASS
Band12	5MHz	QPSK	23035	1RB#0	0.009~0.15	-57.27	PASS
Band12	5MHz	QPSK	23035	1RB#0	0.15~30	-32.77	PASS
Band12	5MHz	QPSK	23035	1RB#0	30~1000	-52.27	PASS
Band12	5MHz	QPSK	23035	1RB#0	1000~3000	-35.93	PASS
Band12	5MHz	QPSK	23035	1RB#0	3000~10000	-35.19	PASS
Band12	5MHz	16QAM	23035	1RB#0	0.009~0.15	-55.69	PASS
Band12	5MHz	16QAM	23035	1RB#0	0.15~30	-28.14	PASS
Band12	5MHz	16QAM	23035	1RB#0	30~1000	-51.57	PASS
Band12	5MHz	16QAM	23035	1RB#0	1000~3000	-37.13	PASS
Band12	5MHz	16QAM	23035	1RB#0	3000~10000	-35.34	PASS
Band12	5MHz	QPSK	23095	1RB#0	0.009~0.15	-57.01	PASS
Band12	5MHz	QPSK	23095	1RB#0	0.15~30	-33.09	PASS
Band12	5MHz	QPSK	23095	1RB#0	30~1000	-52.37	PASS
Band12	5MHz	QPSK	23095	1RB#0	1000~3000	-34.68	PASS
Band12	5MHz	QPSK	23095	1RB#0	3000~10000	-35.37	PASS
Band12	5MHz	16QAM	23095	1RB#0	0.009~0.15	-56.14	PASS
Band12	5MHz	16QAM	23095	1RB#0	0.15~30	-32.60	PASS
Band12	5MHz	16QAM	23095	1RB#0	30~1000	-52.59	PASS
Band12	5MHz	16QAM	23095	1RB#0	1000~3000	-36.98	PASS



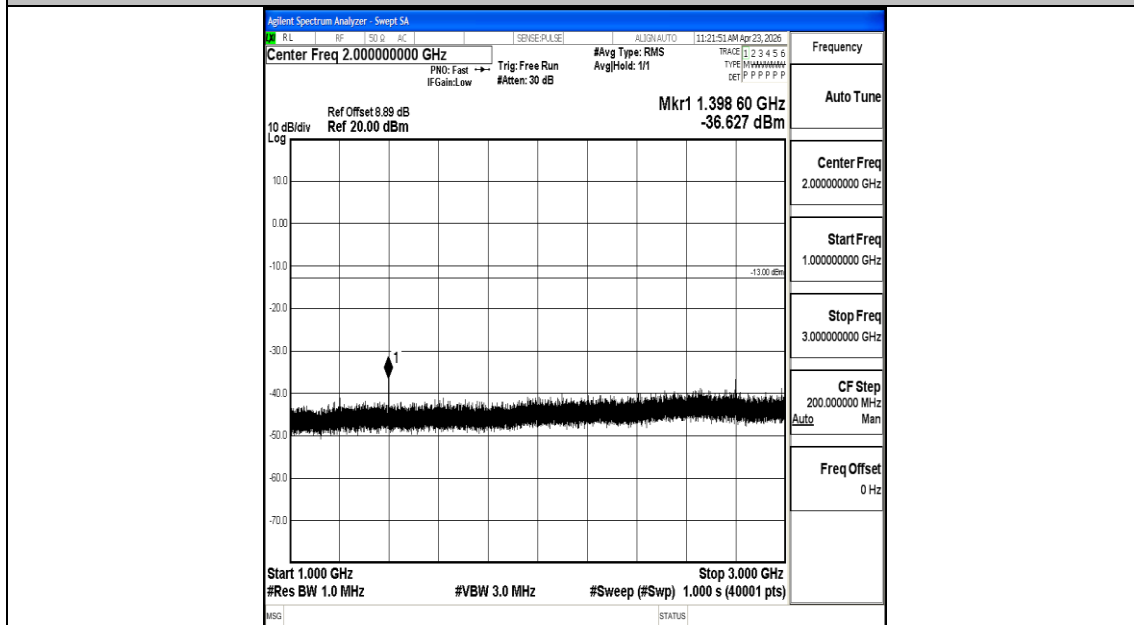
Band12	5MHz	16QAM	23095	1RB#0	3000~10000	-35.38	PASS
Band12	5MHz	QPSK	23155	1RB#0	0.009~0.15	-56.21	PASS
Band12	5MHz	QPSK	23155	1RB#0	0.15~30	-32.29	PASS
Band12	5MHz	QPSK	23155	1RB#0	30~1000	-52.88	PASS
Band12	5MHz	QPSK	23155	1RB#0	1000~3000	-37.43	PASS
Band12	5MHz	QPSK	23155	1RB#0	3000~10000	-35.13	PASS
Band12	5MHz	16QAM	23155	1RB#0	0.009~0.15	-57.64	PASS
Band12	5MHz	16QAM	23155	1RB#0	0.15~30	-31.17	PASS
Band12	5MHz	16QAM	23155	1RB#0	30~1000	-52.39	PASS
Band12	5MHz	16QAM	23155	1RB#0	1000~3000	-37.29	PASS
Band12	5MHz	16QAM	23155	1RB#0	3000~10000	-35.50	PASS
Band12	10MHz	QPSK	23060	1RB#0	0.009~0.15	-58.24	PASS
Band12	10MHz	QPSK	23060	1RB#0	0.15~30	-35.35	PASS
Band12	10MHz	QPSK	23060	1RB#0	30~1000	-51.99	PASS
Band12	10MHz	QPSK	23060	1RB#0	1000~3000	-35.13	PASS
Band12	10MHz	QPSK	23060	1RB#0	3000~10000	-34.84	PASS
Band12	10MHz	16QAM	23060	1RB#0	0.009~0.15	-55.82	PASS
Band12	10MHz	16QAM	23060	1RB#0	0.15~30	-35.83	PASS
Band12	10MHz	16QAM	23060	1RB#0	30~1000	-52.63	PASS
Band12	10MHz	16QAM	23060	1RB#0	1000~3000	-34.95	PASS
Band12	10MHz	16QAM	23060	1RB#0	3000~10000	-35.22	PASS
Band12	10MHz	QPSK	23095	1RB#0	0.009~0.15	-57.56	PASS
Band12	10MHz	QPSK	23095	1RB#0	0.15~30	-31.69	PASS
Band12	10MHz	QPSK	23095	1RB#0	30~1000	-49.64	PASS
Band12	10MHz	QPSK	23095	1RB#0	1000~3000	-34.54	PASS
Band12	10MHz	QPSK	23095	1RB#0	3000~10000	-35.44	PASS
Band12	10MHz	16QAM	23095	1RB#0	0.009~0.15	-56.54	PASS
Band12	10MHz	16QAM	23095	1RB#0	0.15~30	-29.35	PASS
Band12	10MHz	16QAM	23095	1RB#0	30~1000	-51.43	PASS
Band12	10MHz	16QAM	23095	1RB#0	1000~3000	-33.93	PASS
Band12	10MHz	16QAM	23095	1RB#0	3000~10000	-35.22	PASS
Band12	10MHz	QPSK	23130	1RB#0	0.009~0.15	-55.70	PASS
Band12	10MHz	QPSK	23130	1RB#0	0.15~30	-35.19	PASS
Band12	10MHz	QPSK	23130	1RB#0	30~1000	-51.03	PASS
Band12	10MHz	QPSK	23130	1RB#0	1000~3000	-35.33	PASS
Band12	10MHz	QPSK	23130	1RB#0	3000~10000	-35.57	PASS
Band12	10MHz	16QAM	23130	1RB#0	0.009~0.15	-58.62	PASS
Band12	10MHz	16QAM	23130	1RB#0	0.15~30	-32.94	PASS
Band12	10MHz	16QAM	23130	1RB#0	30~1000	-52.08	PASS
Band12	10MHz	16QAM	23130	1RB#0	1000~3000	-35.35	PASS
Band12	10MHz	16QAM	23130	1RB#0	3000~10000	-35.00	PASS

Test Graphs

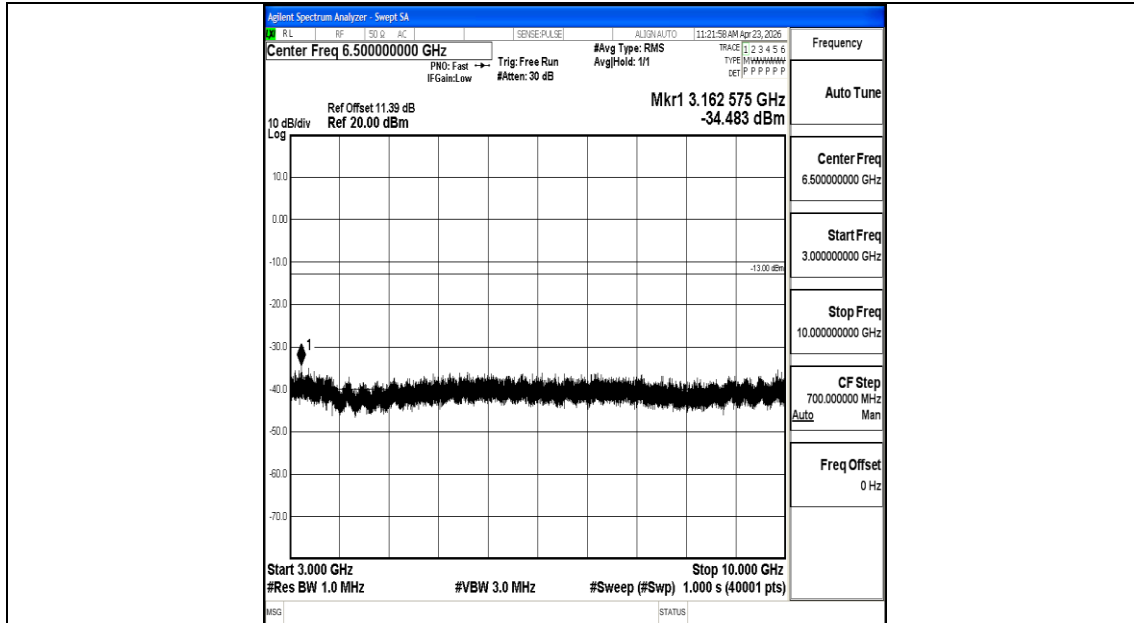




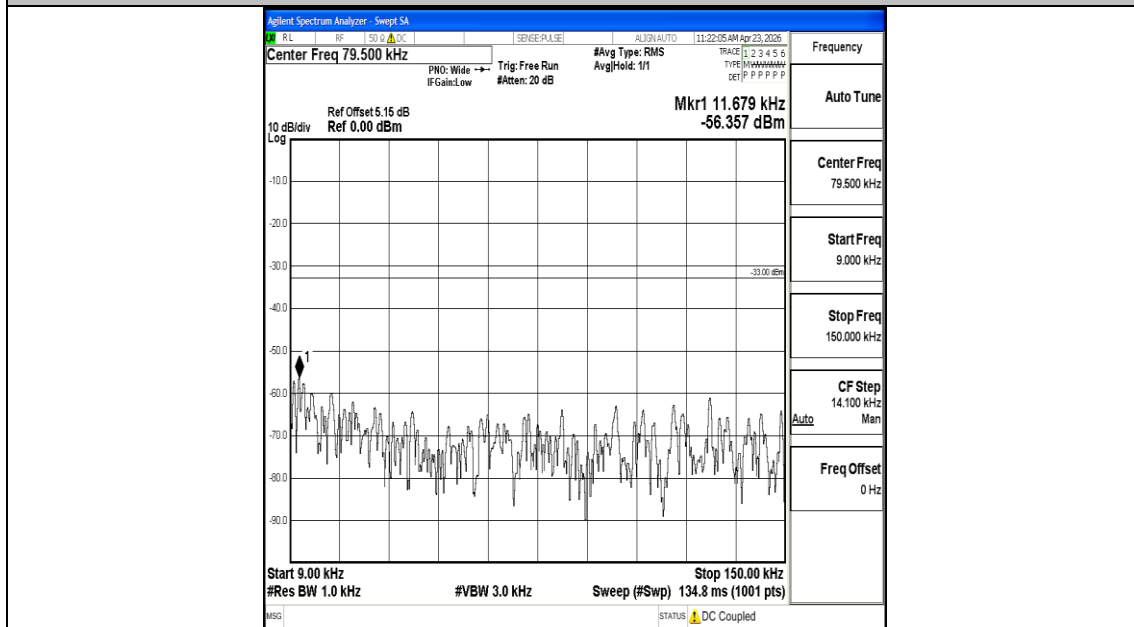
Band12_1.4MHz_QPSK_23017_1RB#0_30~1000_30~1000



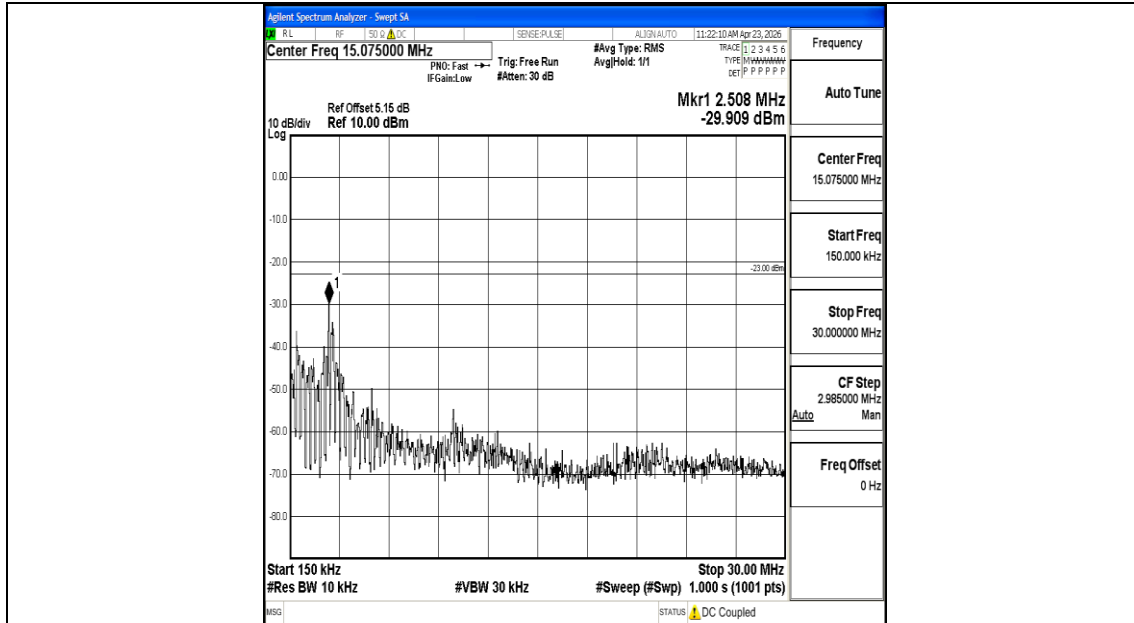
Band12_1.4MHz_QPSK_23017_1RB#0_1000~3000_1000~3000



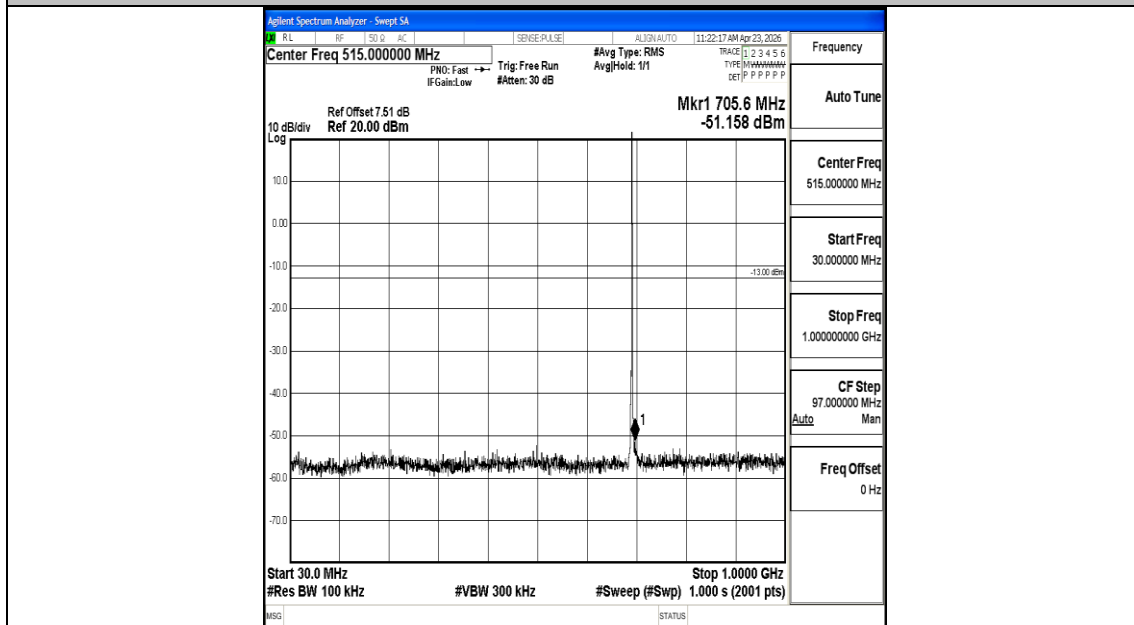
Band12_1.4MHz_QPSK_23017_1RB#0_3000~10000_3000~10000



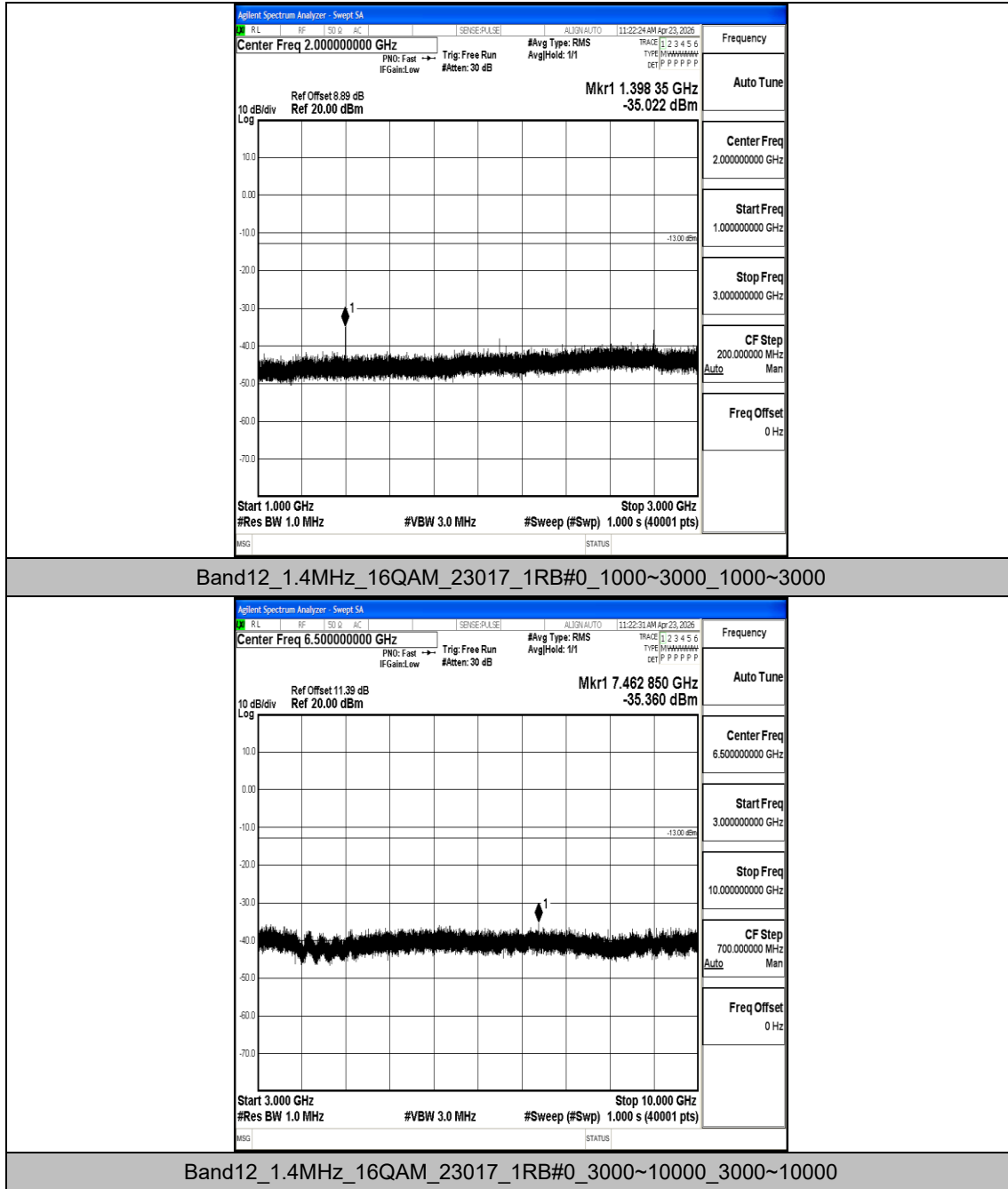
Band12_1.4MHz_16QAM_23017_1RB#0_0.009~0.15_0.009~0.15

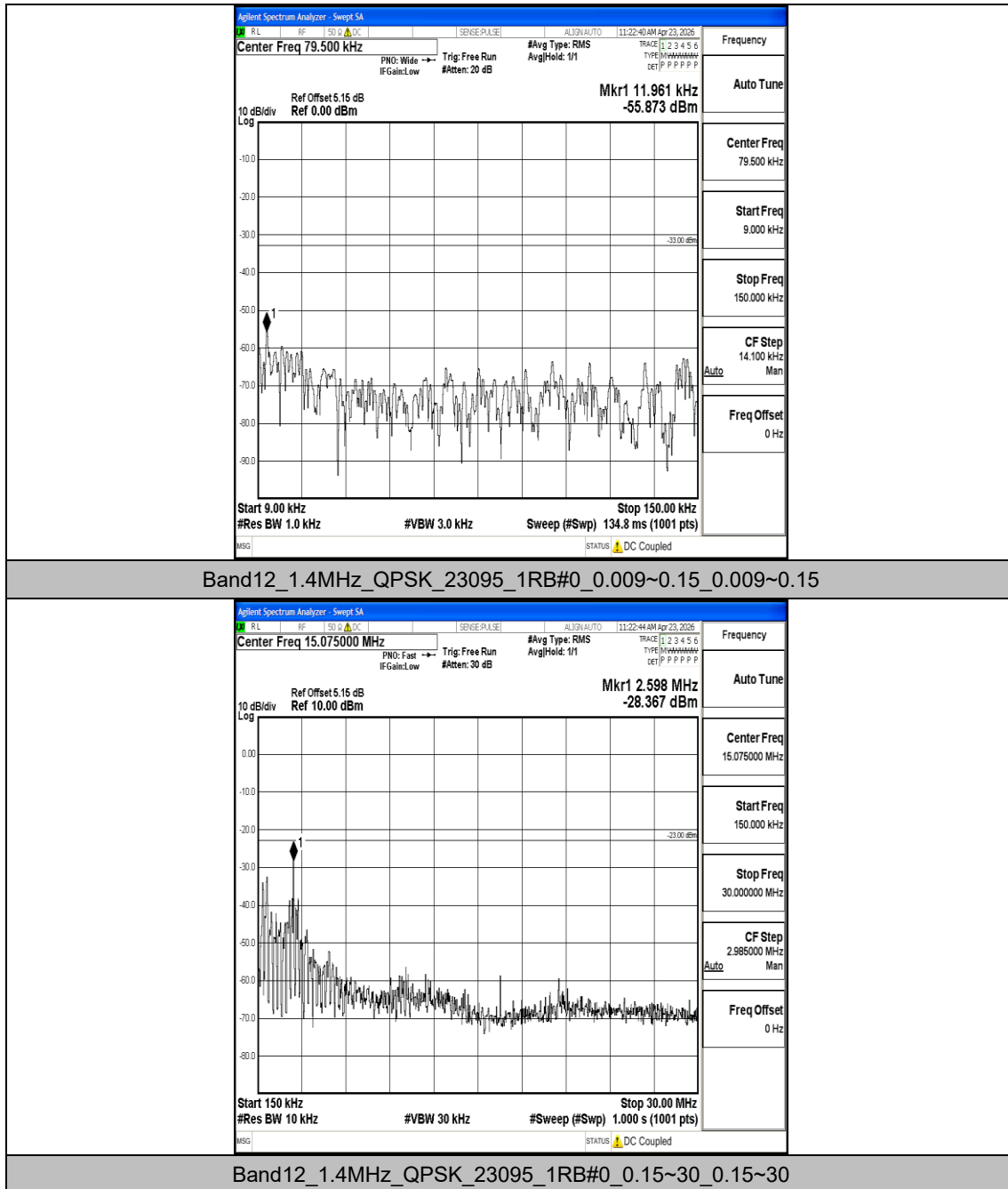


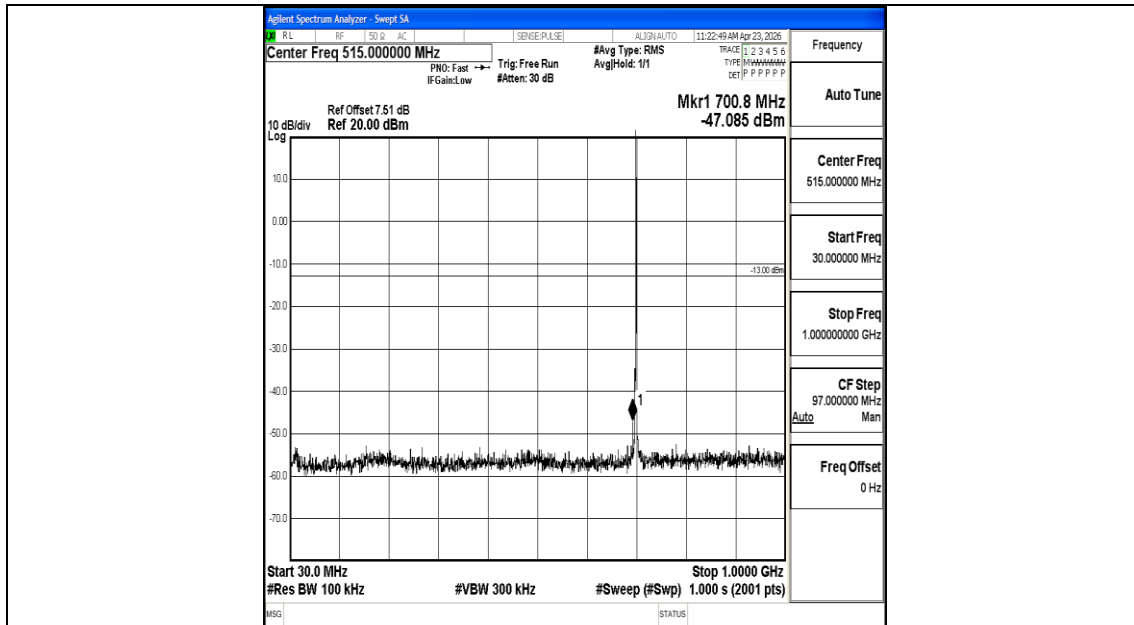
Band12_1.4MHz_16QAM_23017_1RB#0_0.15~30_0.15~30



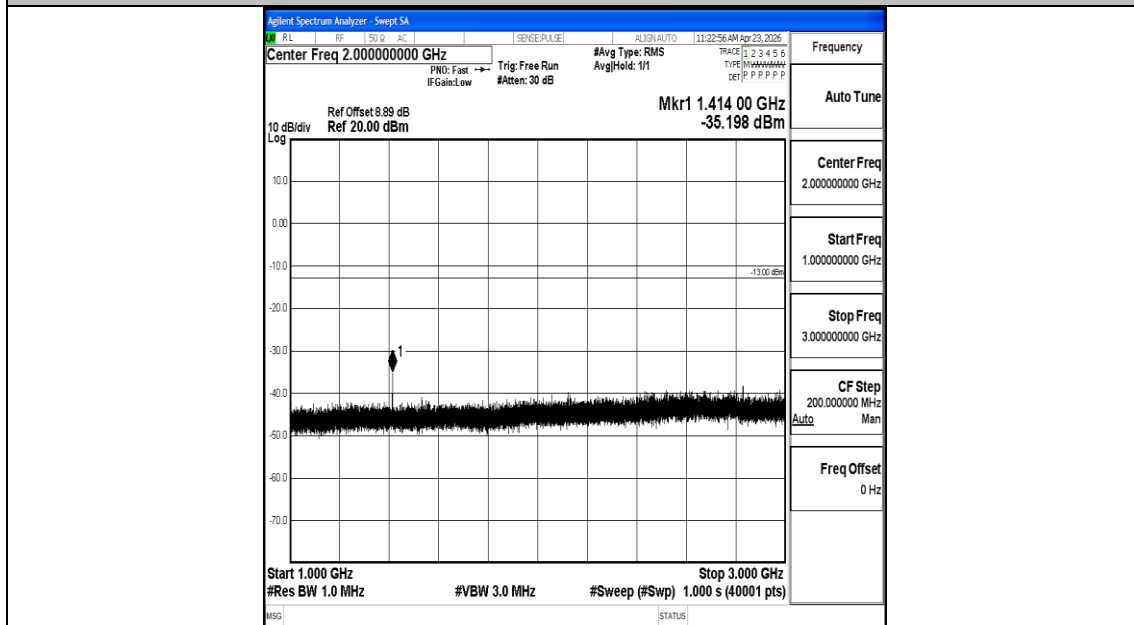
Band12_1.4MHz_16QAM_23017_1RB#0_30~1000_30~1000







Band12_1.4MHz_QPSK_23095_1RB#0_30~1000_30~1000



Band12_1.4MHz_QPSK_23095_1RB#0_1000~3000_1000~3000

