

FCC LTE Band Test Data

FCC ID : 2BL85-LEM

Company: : SHENZHEN WAYFOR WARD ELECTRONIC CO.,LTD

EUT : smart watch

Model Number : LEM10

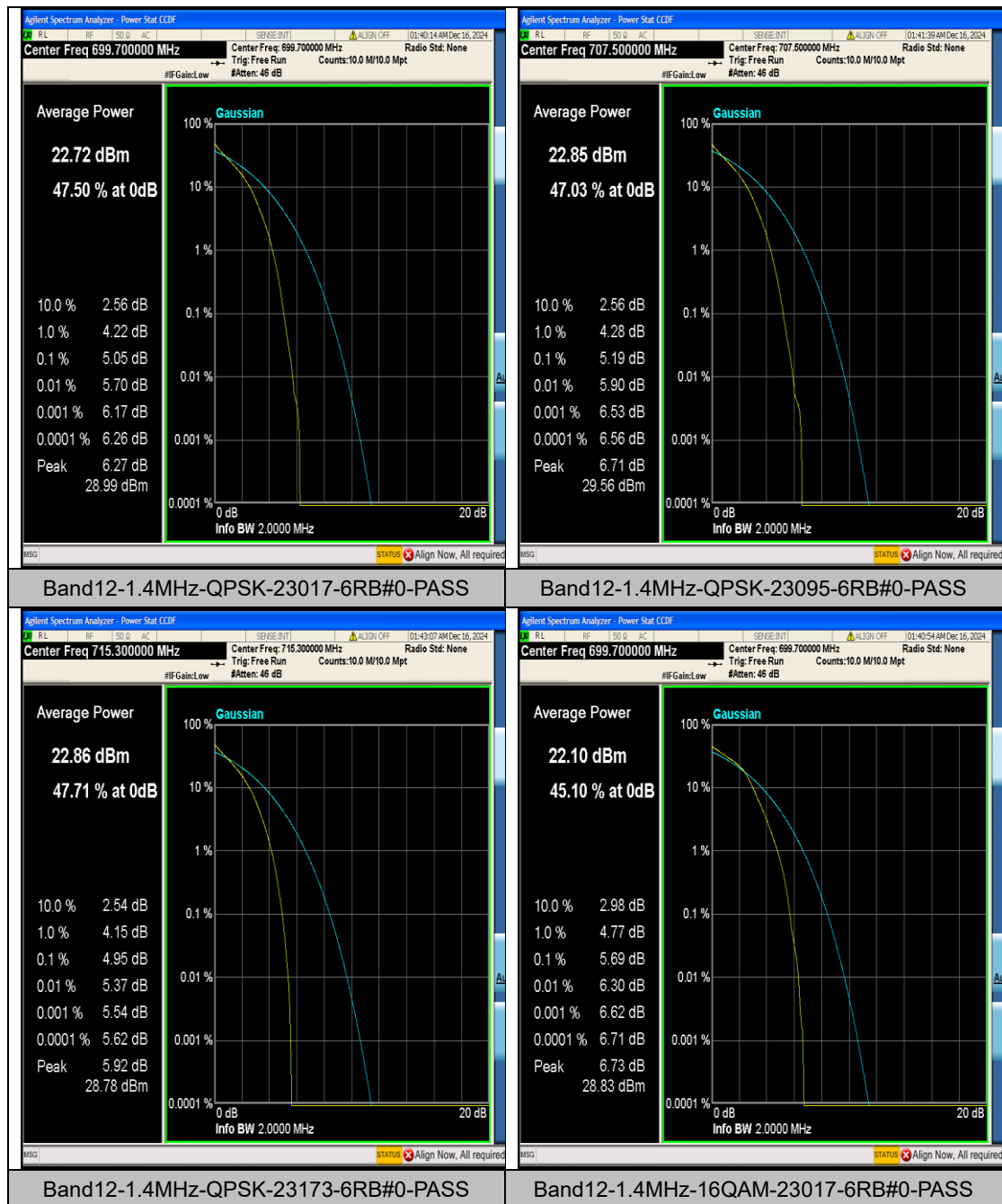
Reviewed By : Eric Wang

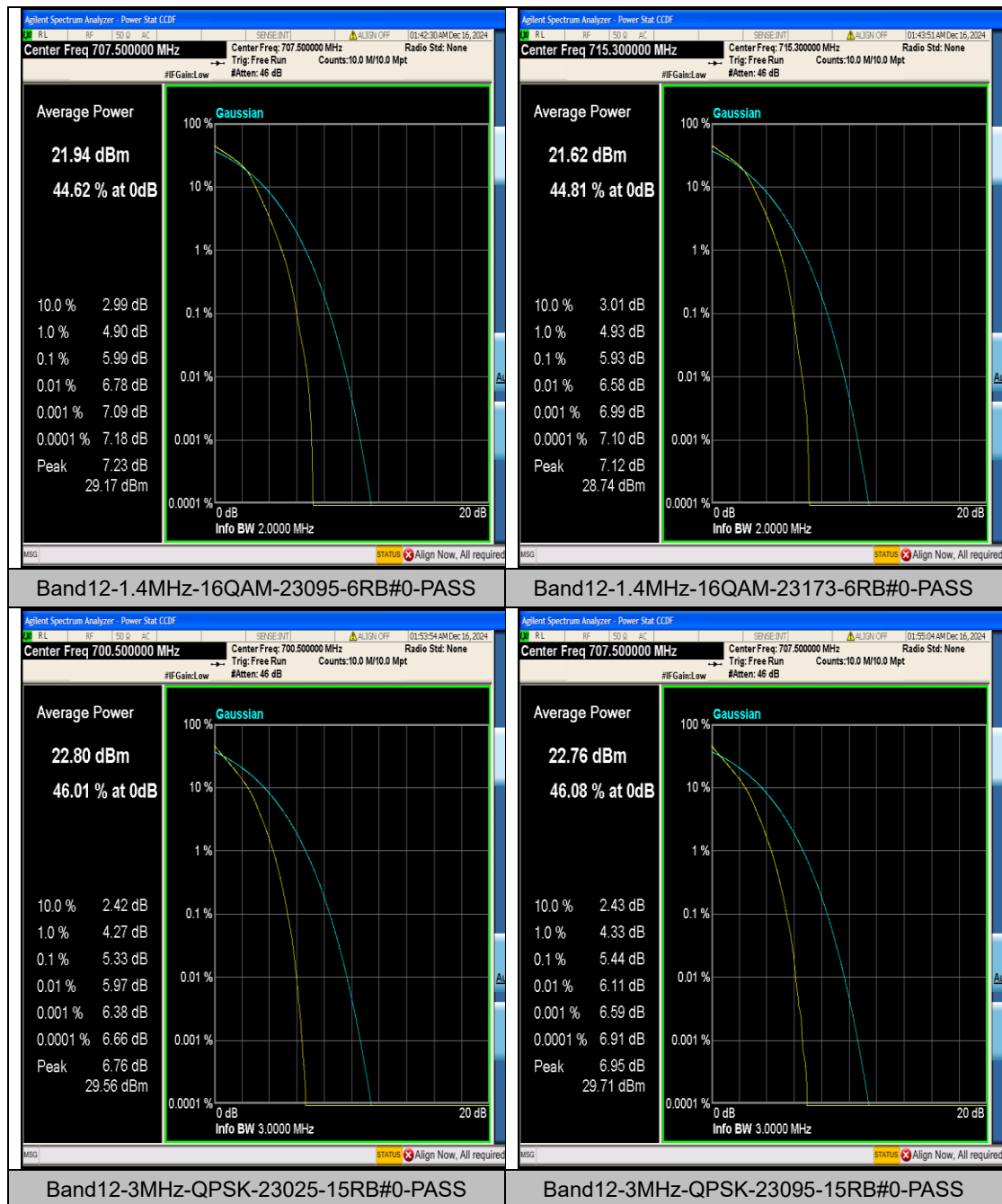
Appendix B: Peak-to-Average Ratio(CCDF)

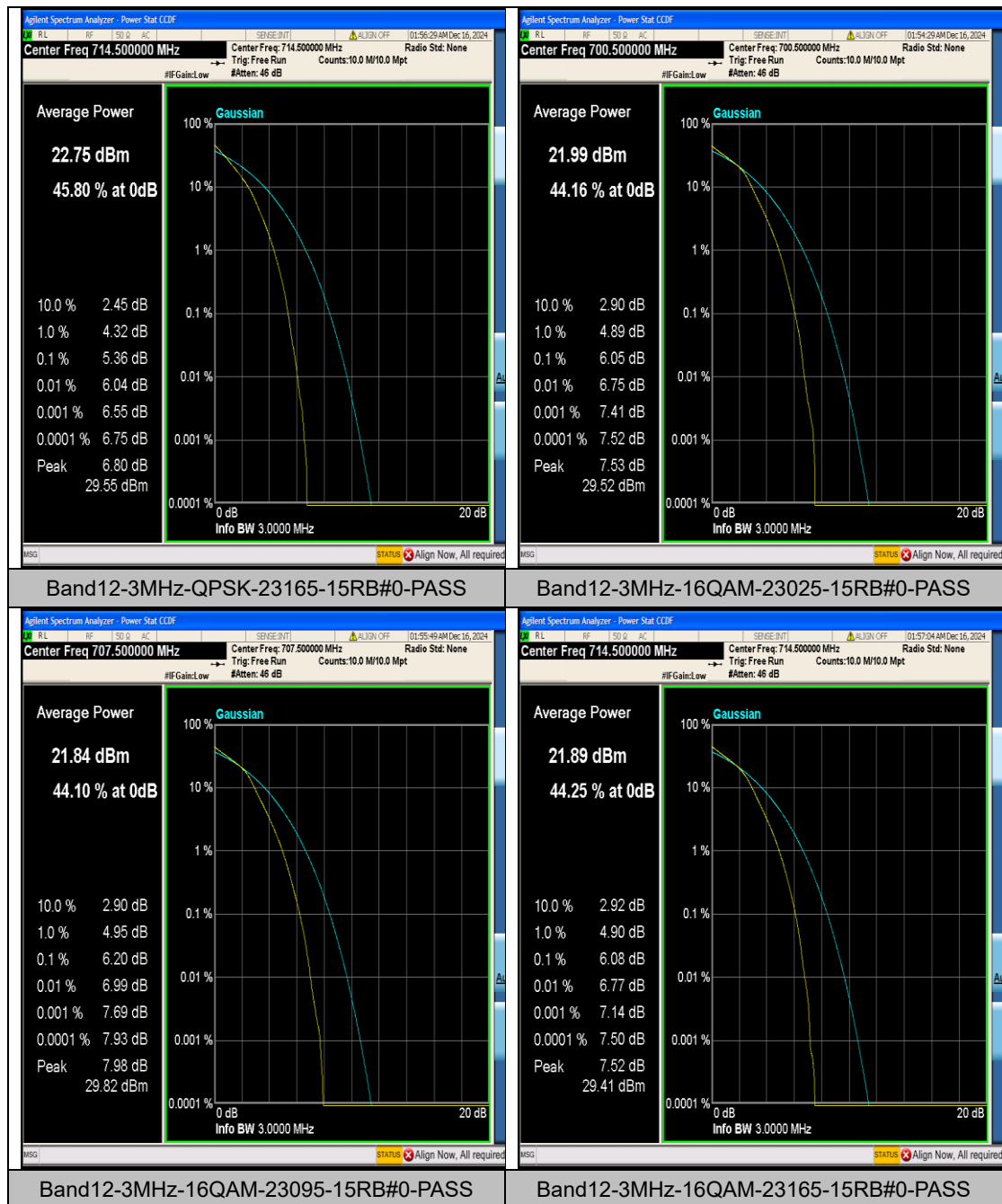
Test Result

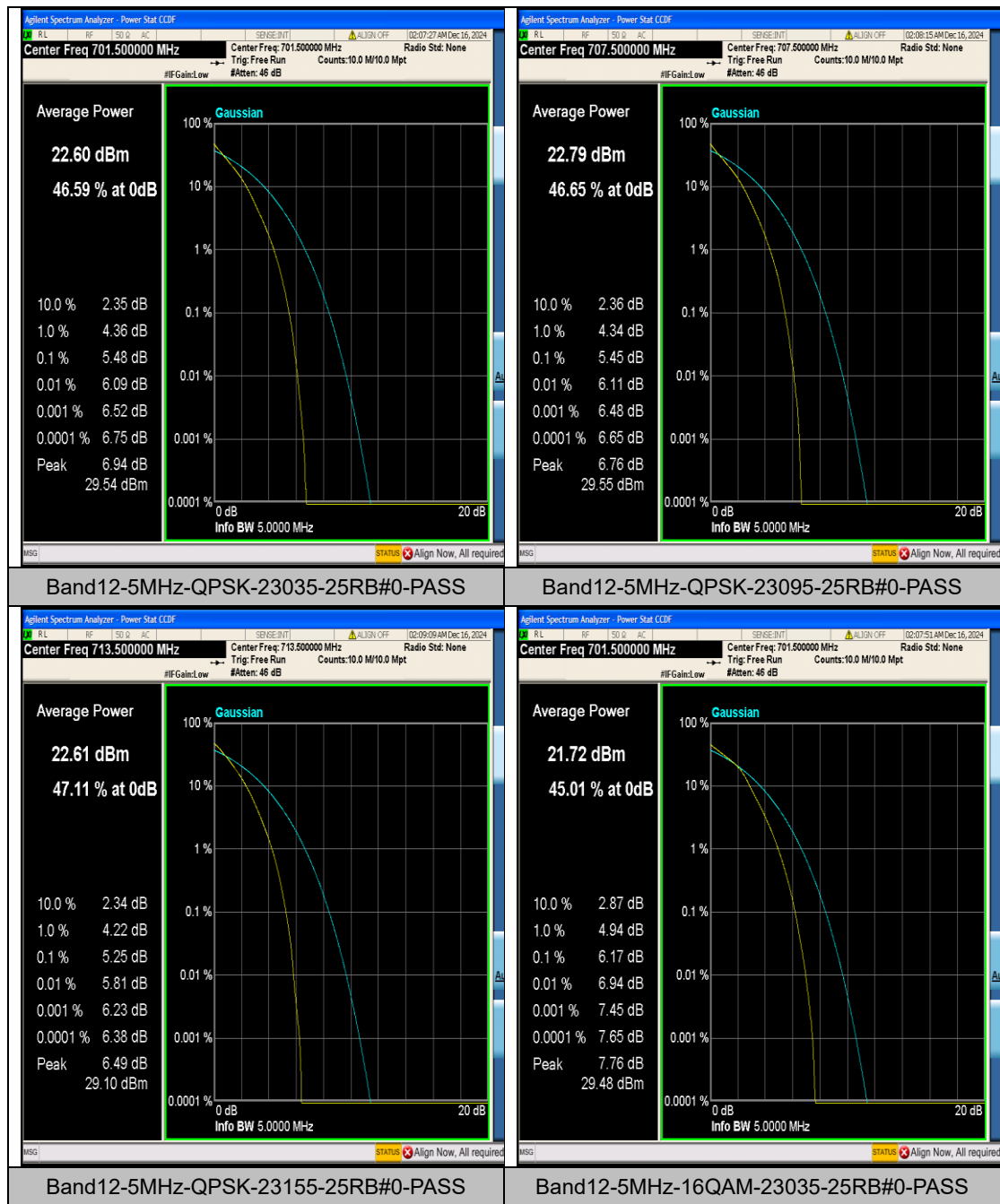
Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band12	1.4MHz	QPSK	23017	6RB#0	5.05	13	PASS
Band12	1.4MHz	QPSK	23095	6RB#0	5.19	13	PASS
Band12	1.4MHz	QPSK	23173	6RB#0	4.95	13	PASS
Band12	1.4MHz	16QAM	23017	6RB#0	5.69	13	PASS
Band12	1.4MHz	16QAM	23095	6RB#0	5.99	13	PASS
Band12	1.4MHz	16QAM	23173	6RB#0	5.93	13	PASS
Band12	3MHz	QPSK	23025	15RB#0	5.33	13	PASS
Band12	3MHz	QPSK	23095	15RB#0	5.44	13	PASS
Band12	3MHz	QPSK	23165	15RB#0	5.36	13	PASS
Band12	3MHz	16QAM	23025	15RB#0	6.05	13	PASS
Band12	3MHz	16QAM	23095	15RB#0	6.20	13	PASS
Band12	3MHz	16QAM	23165	15RB#0	6.08	13	PASS
Band12	5MHz	QPSK	23035	25RB#0	5.48	13	PASS
Band12	5MHz	QPSK	23095	25RB#0	5.45	13	PASS
Band12	5MHz	QPSK	23155	25RB#0	5.25	13	PASS
Band12	5MHz	16QAM	23035	25RB#0	6.17	13	PASS
Band12	5MHz	16QAM	23095	25RB#0	6.11	13	PASS
Band12	5MHz	16QAM	23155	25RB#0	5.90	13	PASS
Band12	10MHz	QPSK	23060	50RB#0	5.40	13	PASS
Band12	10MHz	QPSK	23095	50RB#0	5.51	13	PASS
Band12	10MHz	QPSK	23130	50RB#0	5.38	13	PASS
Band12	10MHz	16QAM	23060	50RB#0	6.14	13	PASS
Band12	10MHz	16QAM	23095	50RB#0	6.20	13	PASS
Band12	10MHz	16QAM	23130	50RB#0	6.05	13	PASS

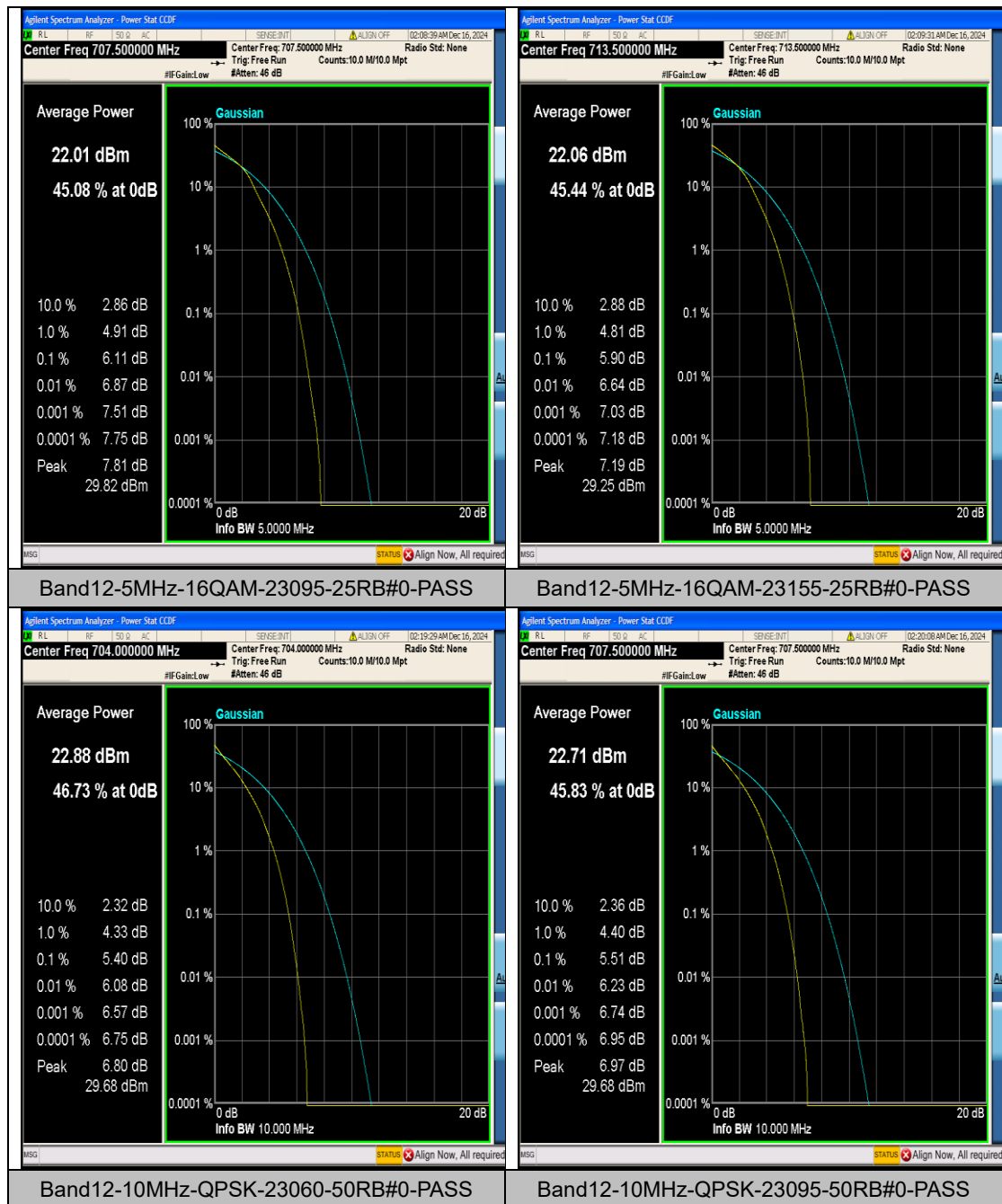
Test Graphs

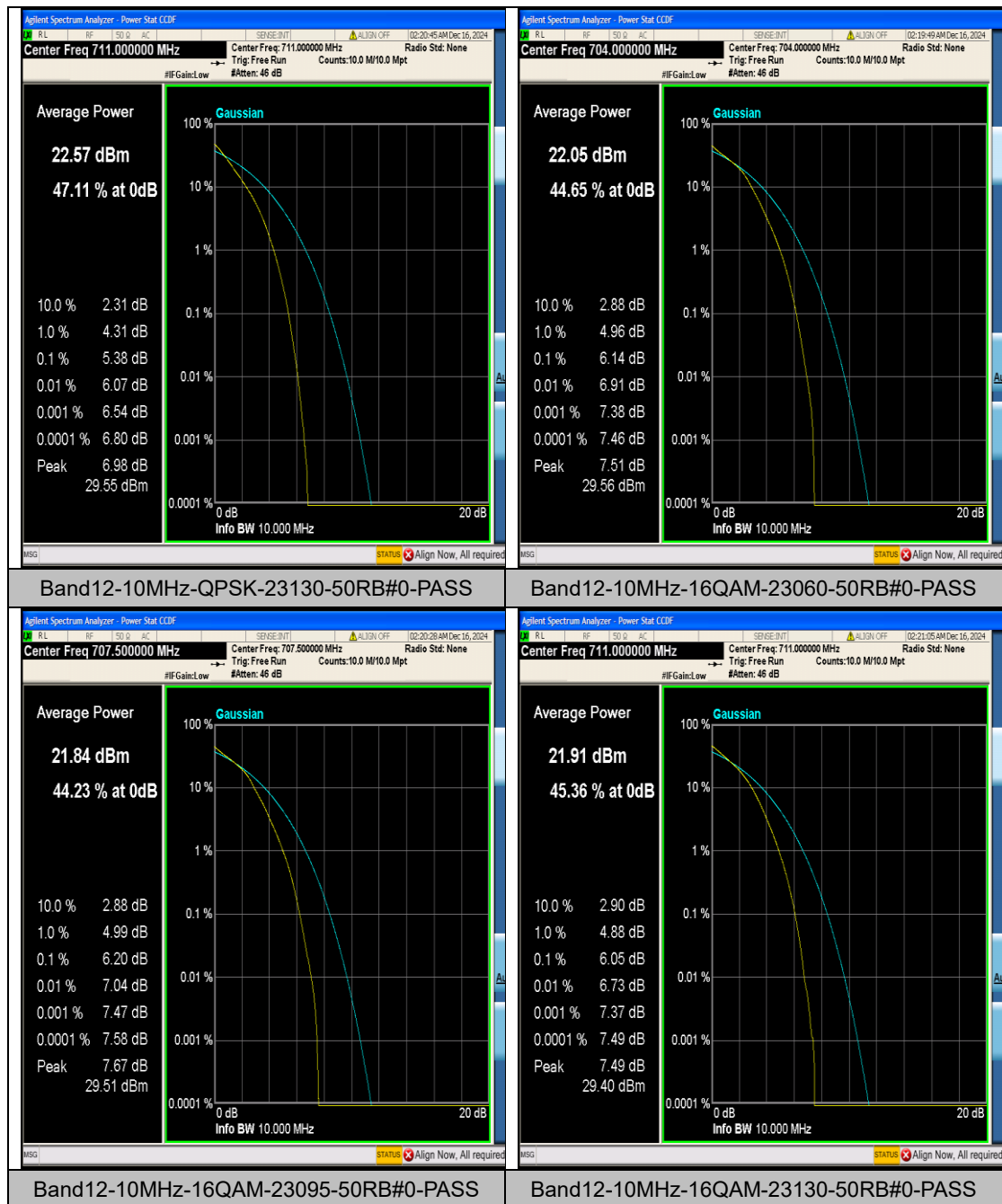










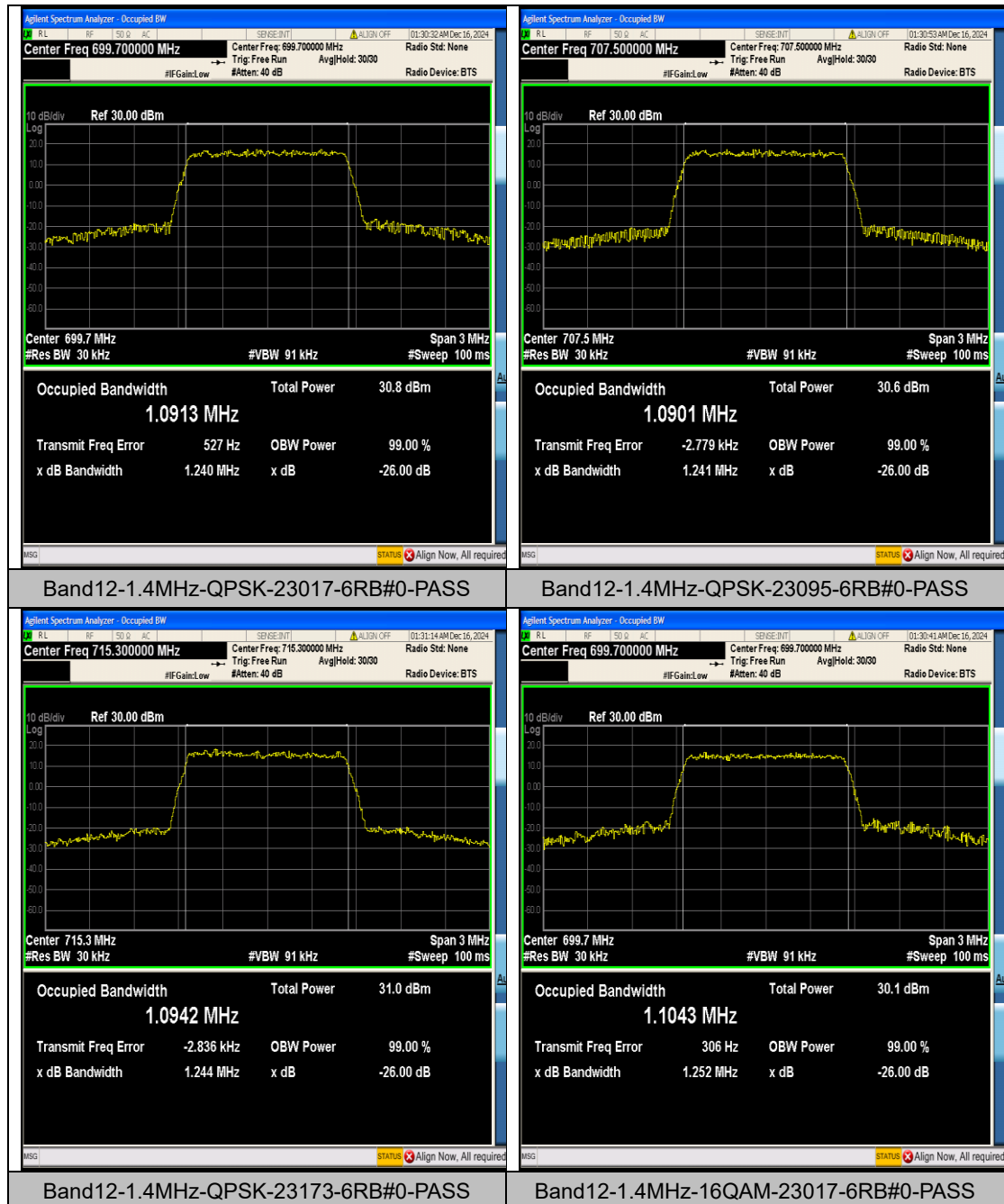


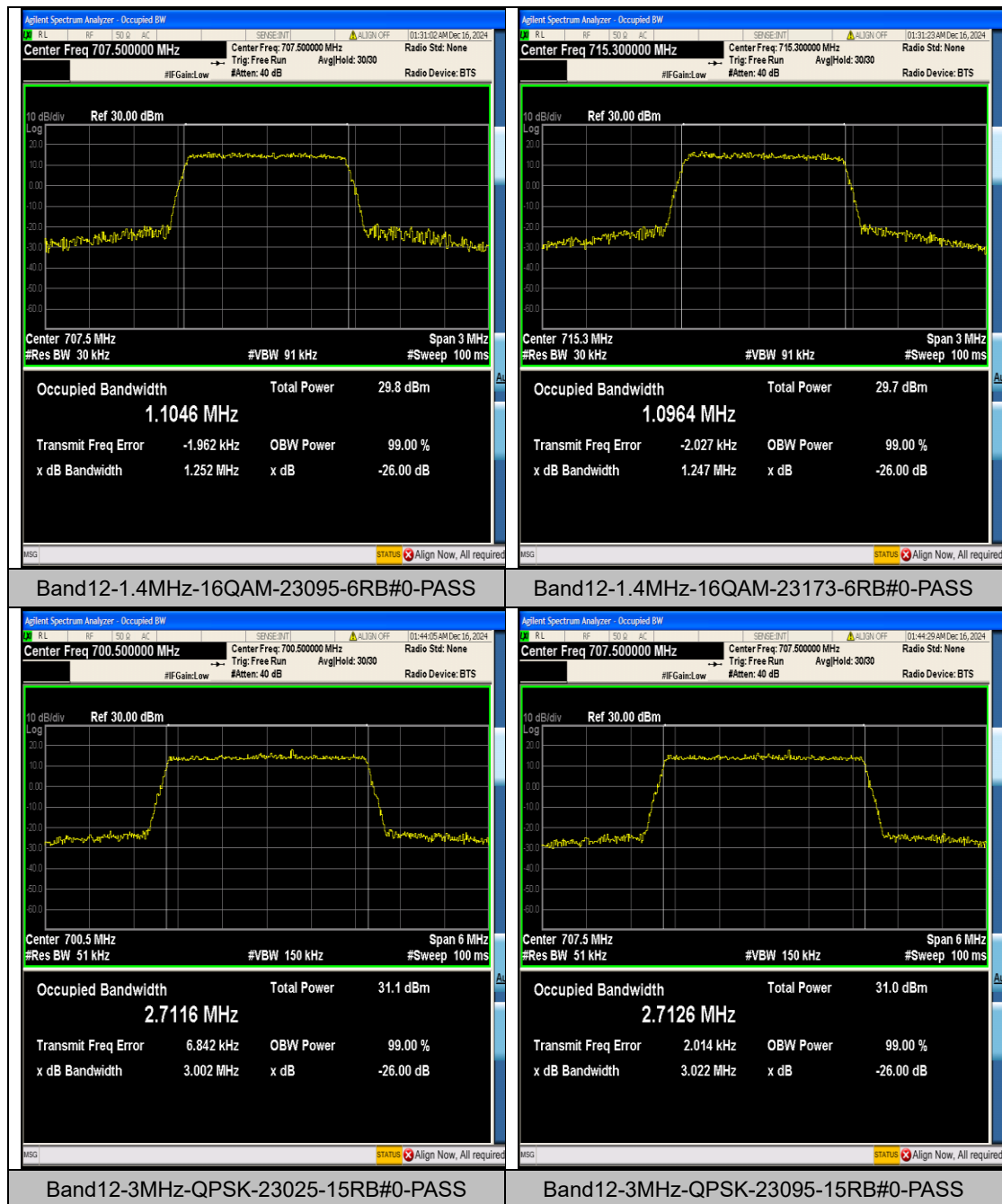
Appendix C: 26dB Bandwidth and Occupied Bandwidth

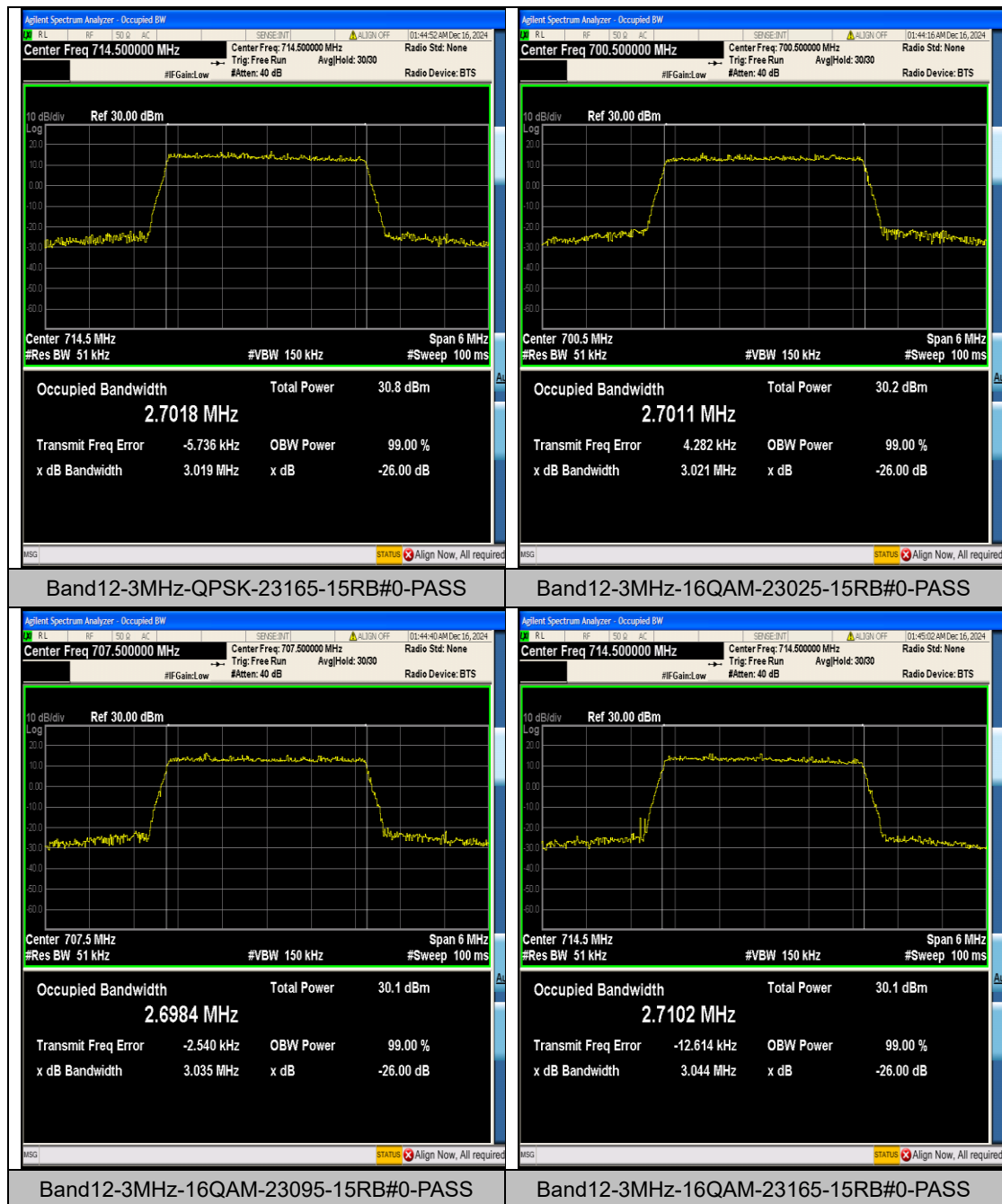
Test Result

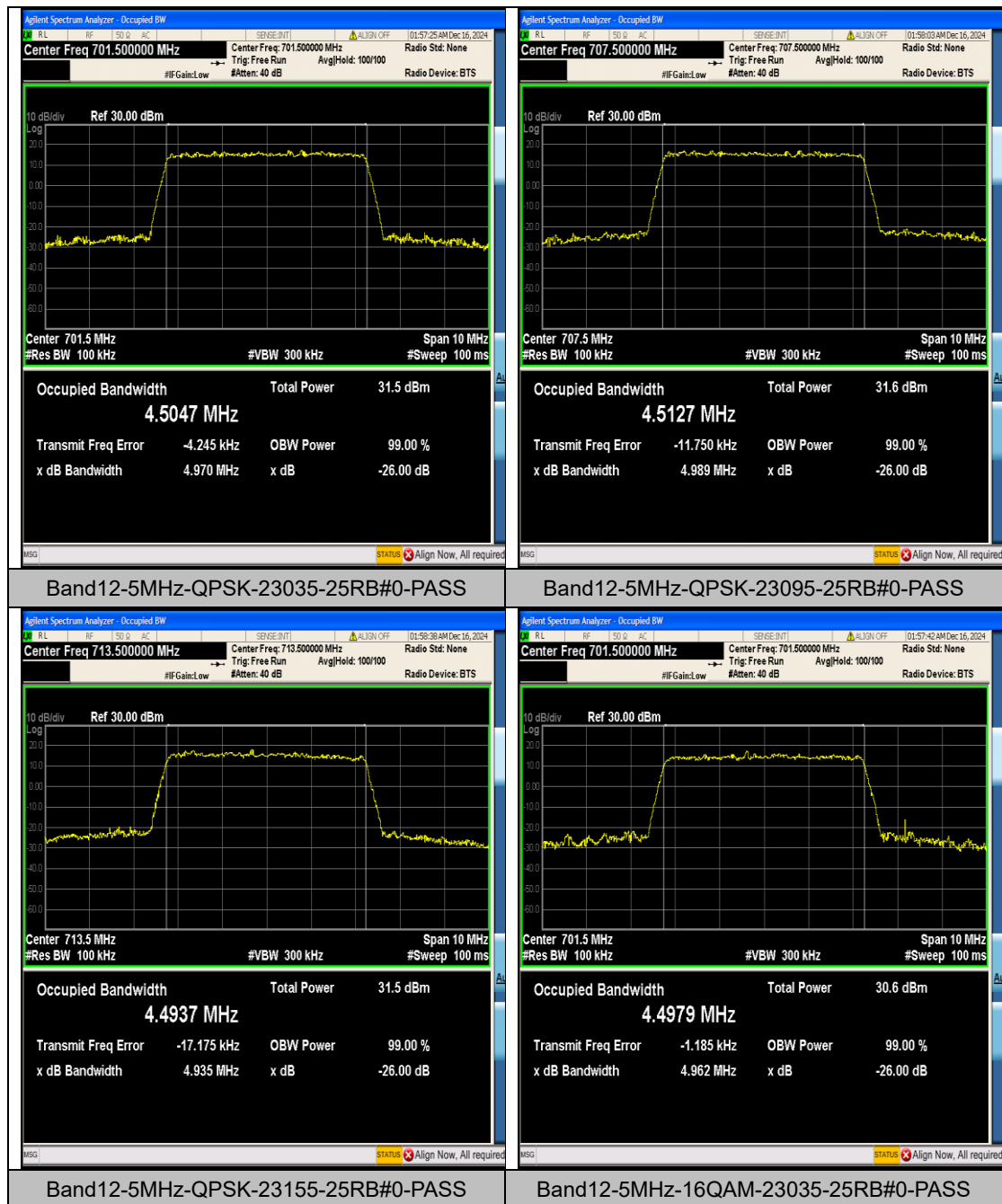
Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band12	1.4MHz	QPSK	23017	6RB#0	1.0913	1.240	PASS
Band12	1.4MHz	QPSK	23095	6RB#0	1.0901	1.241	PASS
Band12	1.4MHz	QPSK	23173	6RB#0	1.0942	1.244	PASS
Band12	1.4MHz	16QAM	23017	6RB#0	1.1043	1.252	PASS
Band12	1.4MHz	16QAM	23095	6RB#0	1.1046	1.252	PASS
Band12	1.4MHz	16QAM	23173	6RB#0	1.0964	1.247	PASS
Band12	3MHz	QPSK	23025	15RB#0	2.7116	3.002	PASS
Band12	3MHz	QPSK	23095	15RB#0	2.7126	3.022	PASS
Band12	3MHz	QPSK	23165	15RB#0	2.7018	3.019	PASS
Band12	3MHz	16QAM	23025	15RB#0	2.7011	3.021	PASS
Band12	3MHz	16QAM	23095	15RB#0	2.6984	3.035	PASS
Band12	3MHz	16QAM	23165	15RB#0	2.7102	3.044	PASS
Band12	5MHz	QPSK	23035	25RB#0	4.5047	4.970	PASS
Band12	5MHz	QPSK	23095	25RB#0	4.5127	4.989	PASS
Band12	5MHz	QPSK	23155	25RB#0	4.4937	4.935	PASS
Band12	5MHz	16QAM	23035	25RB#0	4.4979	4.962	PASS
Band12	5MHz	16QAM	23095	25RB#0	4.5068	4.970	PASS
Band12	5MHz	16QAM	23155	25RB#0	4.4953	4.963	PASS
Band12	10MHz	QPSK	23060	50RB#0	8.9829	9.932	PASS
Band12	10MHz	QPSK	23095	50RB#0	9.0105	9.900	PASS
Band12	10MHz	QPSK	23130	50RB#0	8.9789	9.882	PASS
Band12	10MHz	16QAM	23060	50RB#0	8.9738	9.898	PASS
Band12	10MHz	16QAM	23095	50RB#0	9.0143	9.943	PASS
Band12	10MHz	16QAM	23130	50RB#0	8.9724	9.865	PASS

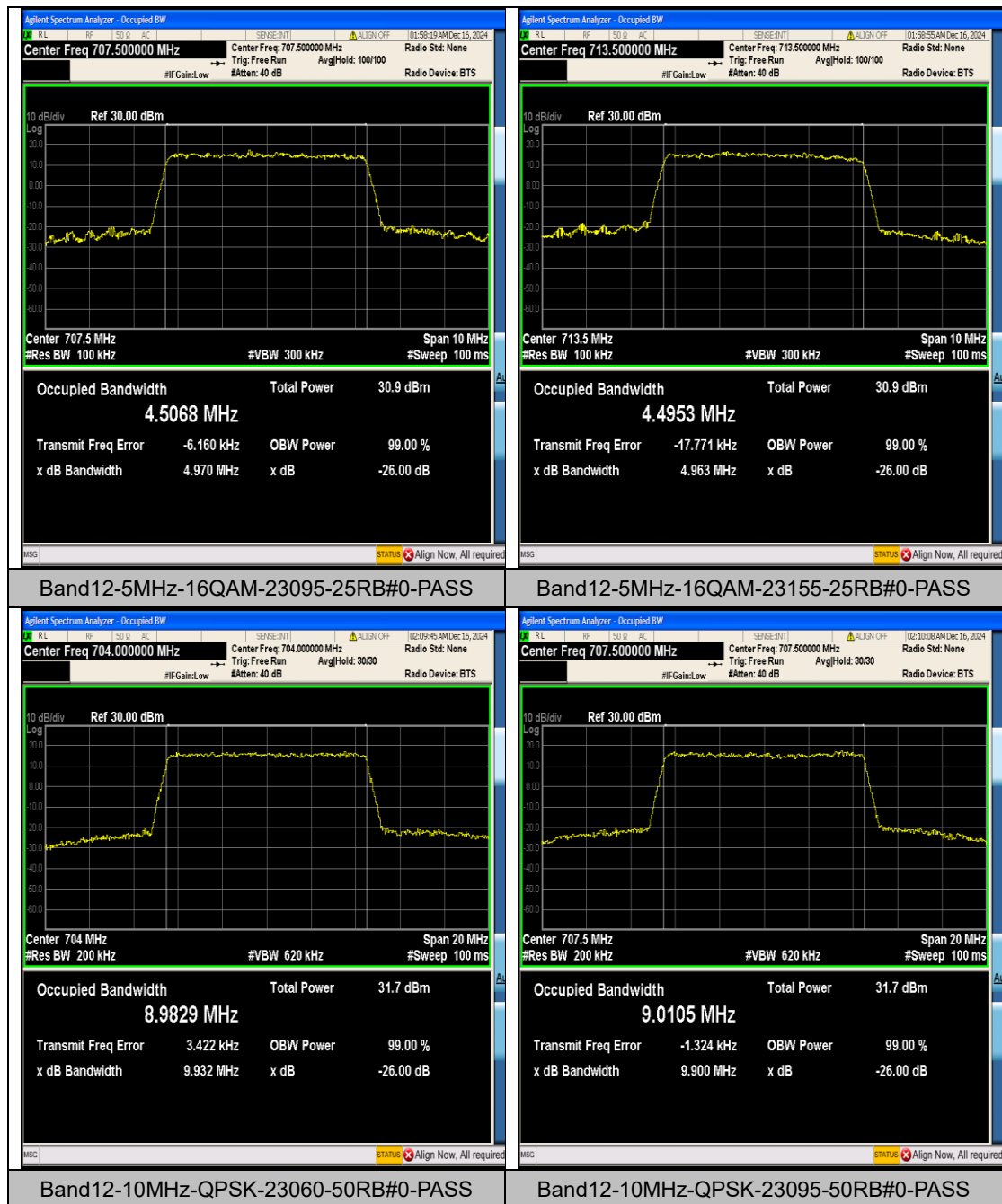
Test Graphs

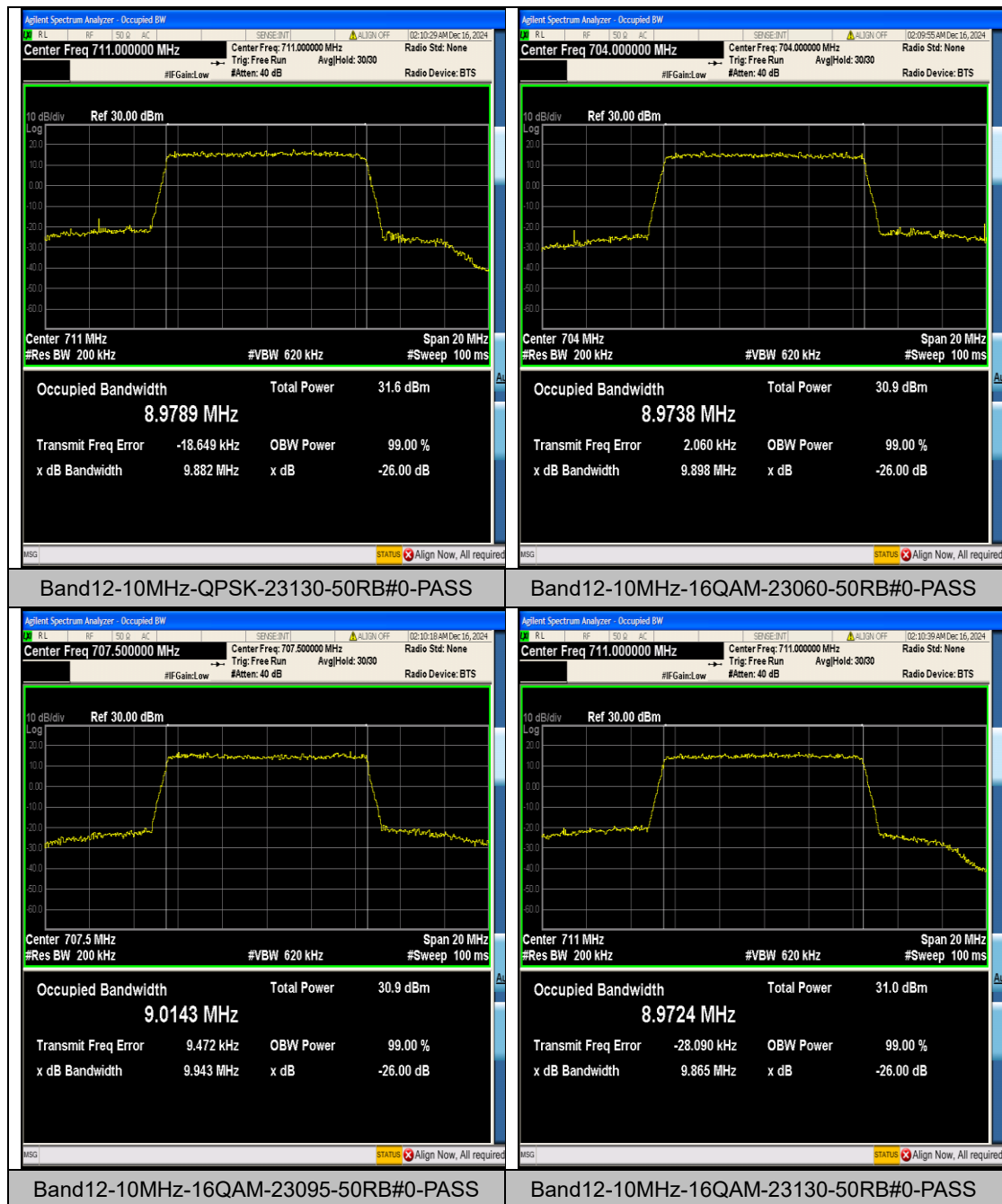










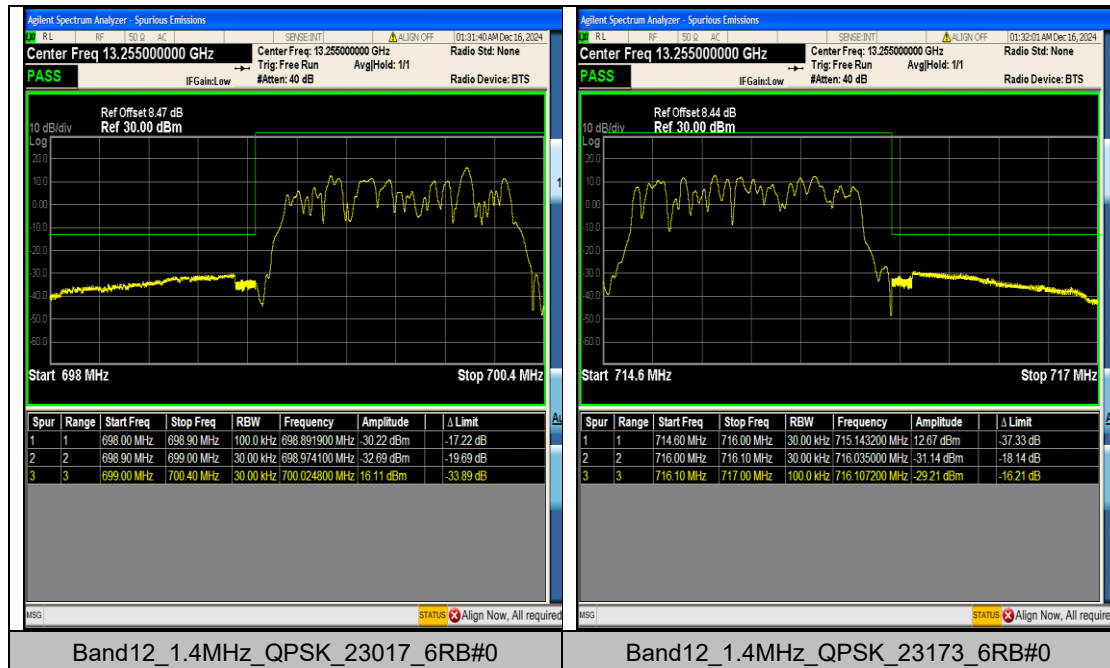


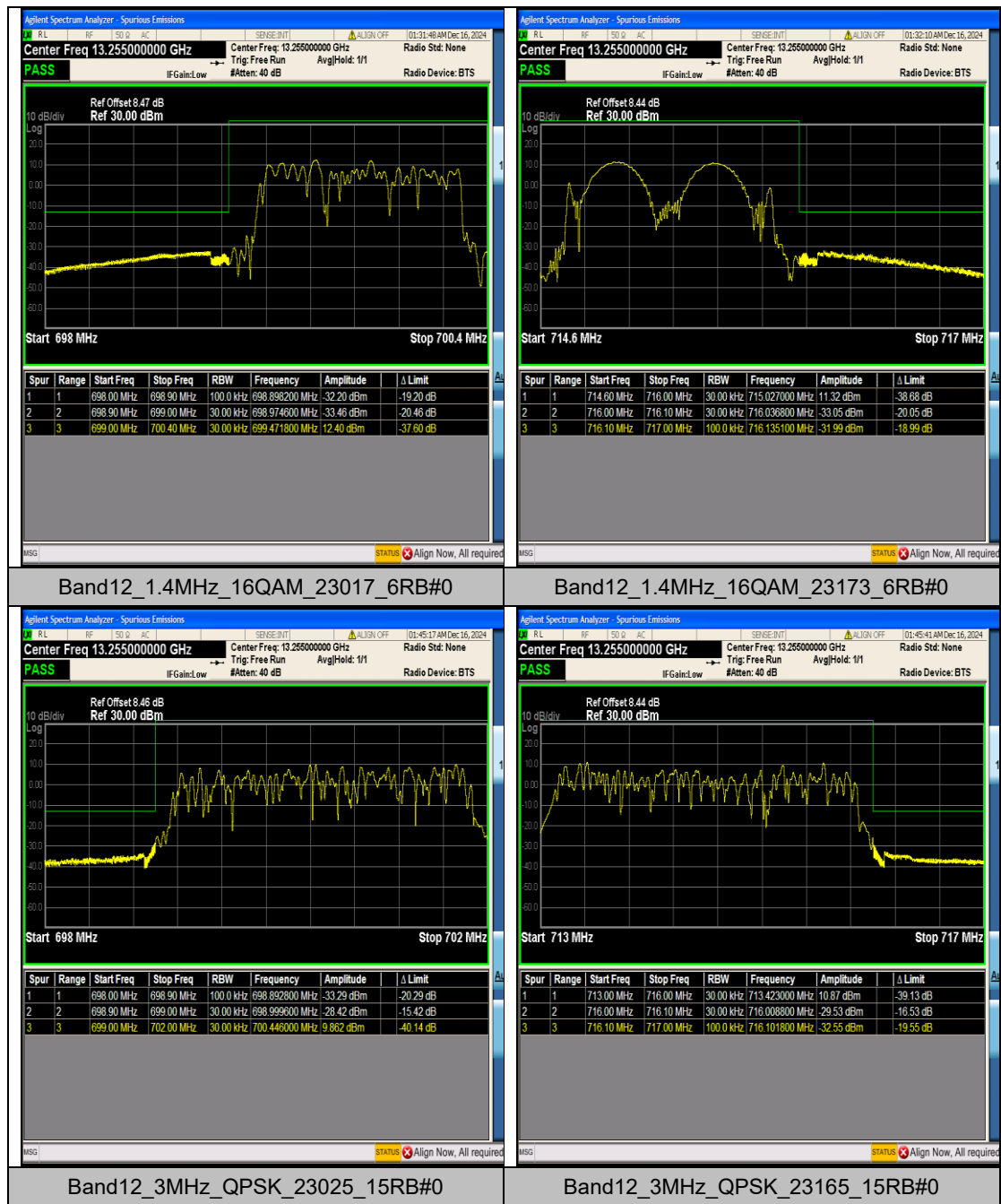
Appendix D: Band Edge

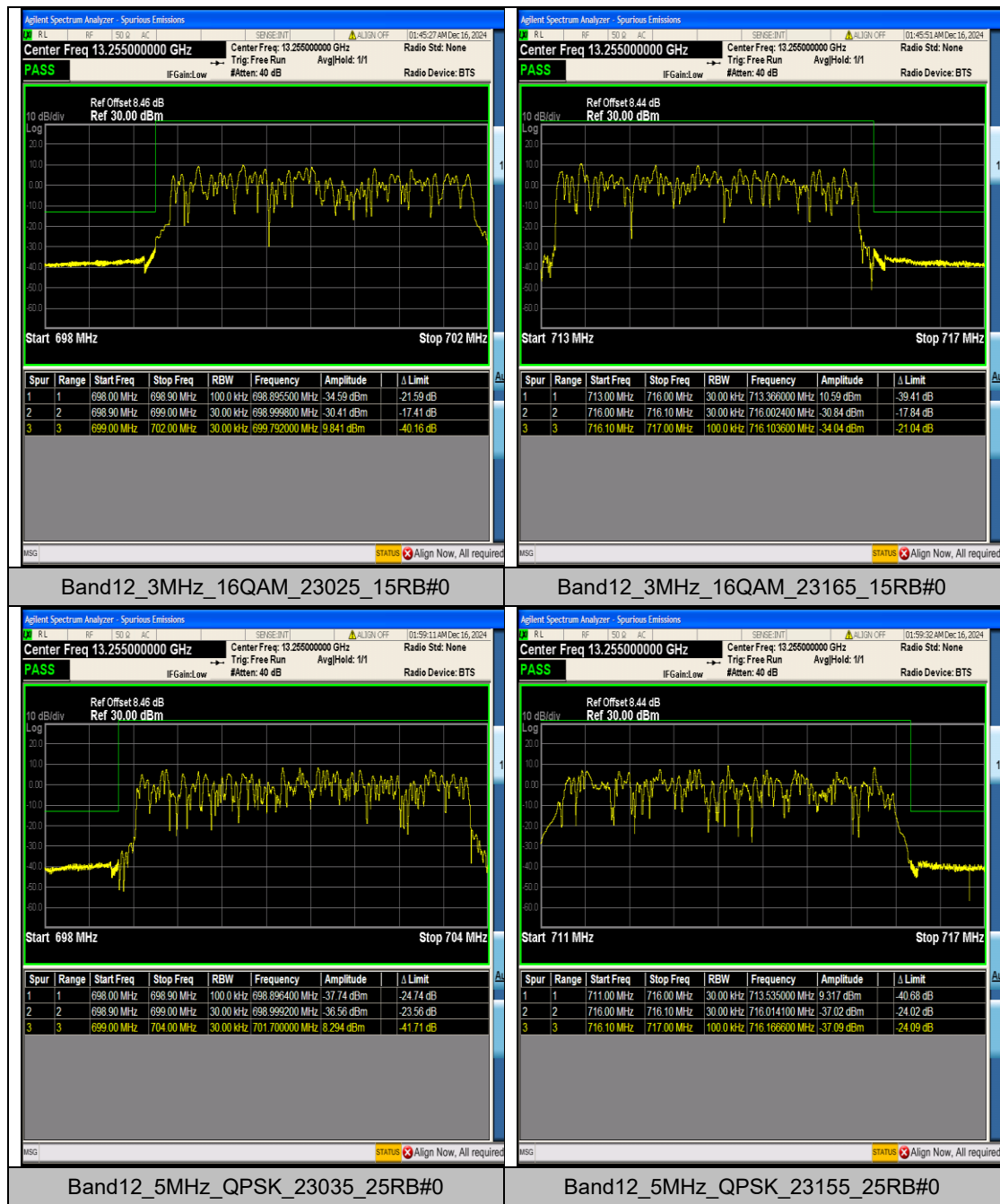
Test Result

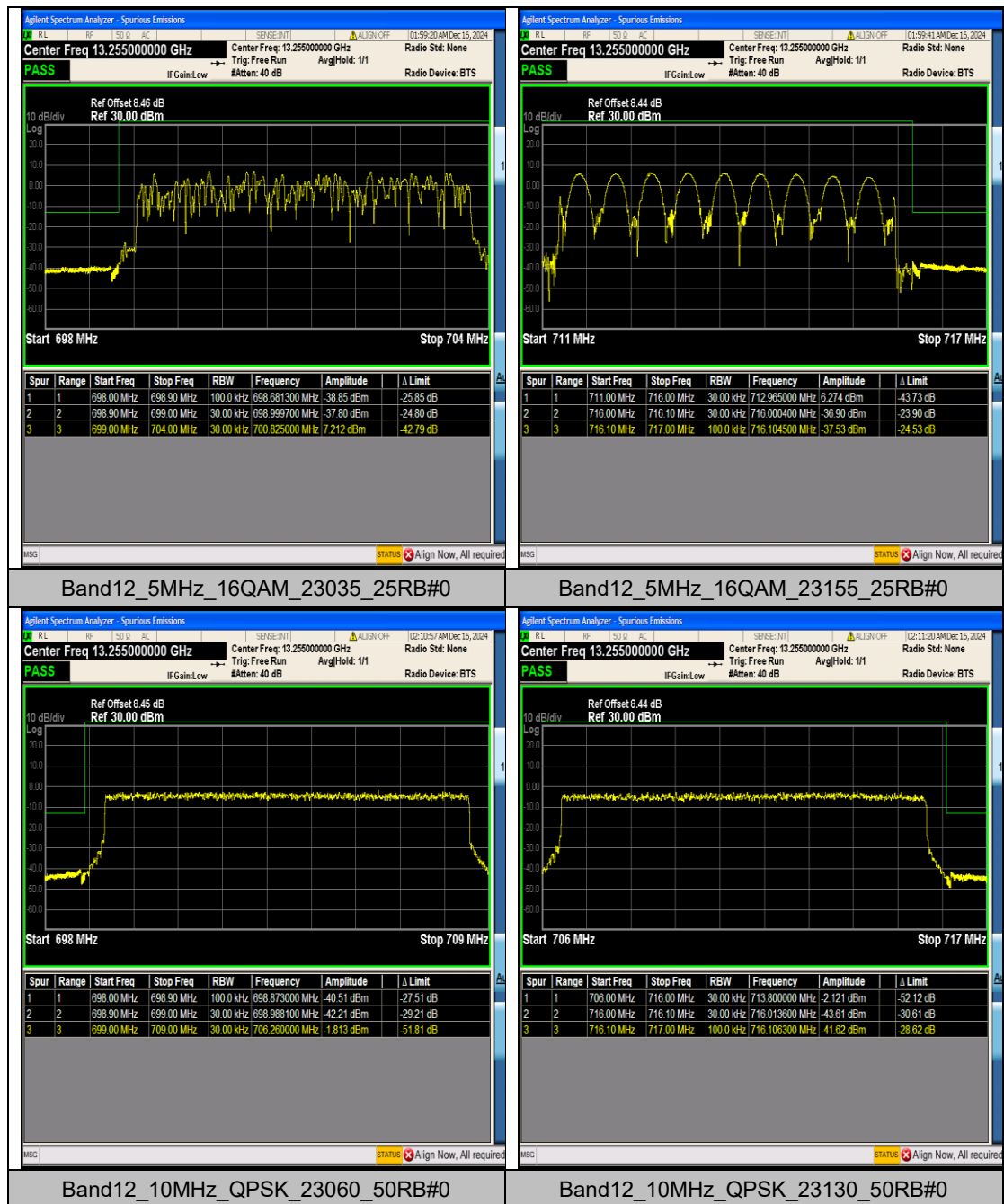
Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band12	1.4MHz	QPSK	23017	6RB#0	-30.22	PASS
Band12	1.4MHz	QPSK	23173	6RB#0	-29.21	PASS
Band12	1.4MHz	16QAM	23017	6RB#0	-32.20	PASS
Band12	1.4MHz	16QAM	23173	6RB#0	-31.99	PASS
Band12	3MHz	QPSK	23025	15RB#0	-28.42	PASS
Band12	3MHz	QPSK	23165	15RB#0	-29.53	PASS
Band12	3MHz	16QAM	23025	15RB#0	-30.41	PASS
Band12	3MHz	16QAM	23165	15RB#0	-30.84	PASS
Band12	5MHz	QPSK	23035	25RB#0	-36.56	PASS
Band12	5MHz	QPSK	23155	25RB#0	-37.02	PASS
Band12	5MHz	16QAM	23035	25RB#0	-37.80	PASS
Band12	5MHz	16QAM	23155	25RB#0	-36.90	PASS
Band12	10MHz	QPSK	23060	50RB#0	-40.51	PASS
Band12	10MHz	QPSK	23130	50RB#0	-41.62	PASS
Band12	10MHz	16QAM	23060	50RB#0	-40.98	PASS
Band12	10MHz	16QAM	23130	50RB#0	-41.45	PASS

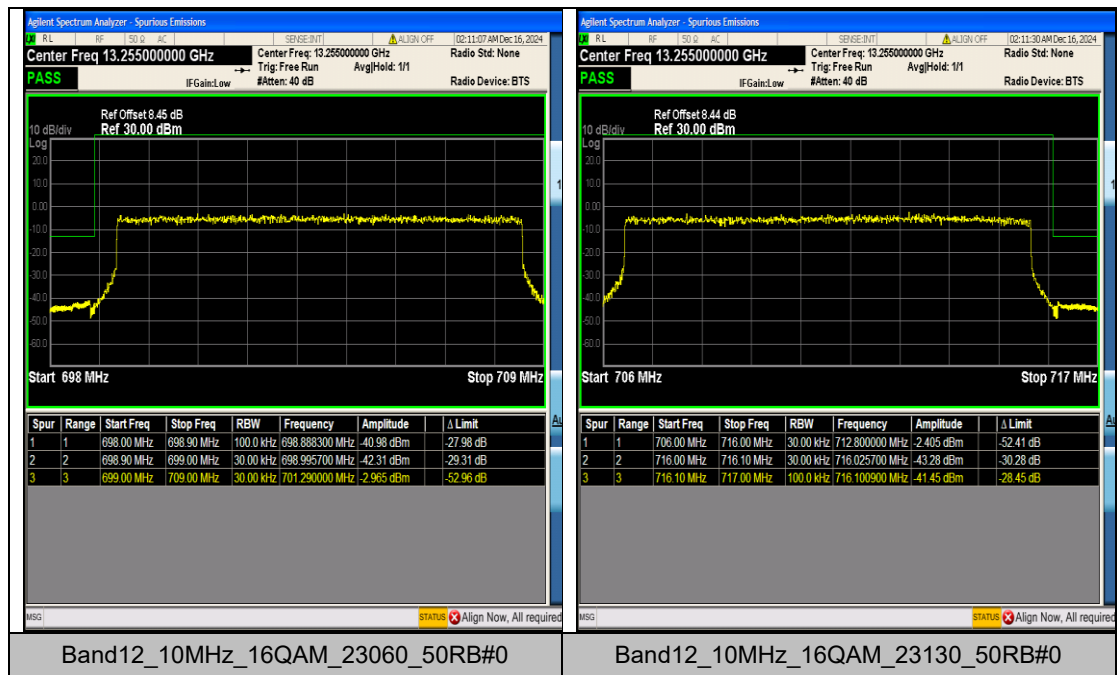
Test Graphs











Appendix E: Conducted Spurious Emission

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Frequency Range	Result (dBm)	Verdict
Band12	1.4MHz	QPSK	23017	6RB#0	0.009~0.15	-38.83	PASS
Band12	1.4MHz	QPSK	23017	6RB#0	0.15~30	-56.87	PASS
Band12	1.4MHz	QPSK	23017	6RB#0	30~1000	-54.45	PASS
Band12	1.4MHz	QPSK	23017	6RB#0	1000~3000	-47.32	PASS
Band12	1.4MHz	QPSK	23017	6RB#0	3000~10000	-42.15	PASS
Band12	1.4MHz	QPSK	23095	6RB#0	0.009~0.15	-43.82	PASS
Band12	1.4MHz	QPSK	23095	6RB#0	0.15~30	-53.84	PASS
Band12	1.4MHz	QPSK	23095	6RB#0	30~1000	-52.72	PASS
Band12	1.4MHz	QPSK	23095	6RB#0	1000~3000	-45.25	PASS
Band12	1.4MHz	QPSK	23095	6RB#0	3000~10000	-40.80	PASS
Band12	1.4MHz	QPSK	23173	6RB#0	0.009~0.15	-43.46	PASS
Band12	1.4MHz	QPSK	23173	6RB#0	0.15~30	-53.82	PASS
Band12	1.4MHz	QPSK	23173	6RB#0	30~1000	-50.43	PASS
Band12	1.4MHz	QPSK	23173	6RB#0	1000~3000	-43.37	PASS
Band12	1.4MHz	QPSK	23173	6RB#0	3000~10000	-37.86	PASS
Band12	1.4MHz	16QAM	23017	6RB#0	0.009~0.15	-43.01	PASS
Band12	1.4MHz	16QAM	23017	6RB#0	0.15~30	-53.21	PASS
Band12	1.4MHz	16QAM	23017	6RB#0	30~1000	-55.02	PASS
Band12	1.4MHz	16QAM	23017	6RB#0	1000~3000	-47.34	PASS
Band12	1.4MHz	16QAM	23017	6RB#0	3000~10000	-42.77	PASS
Band12	1.4MHz	16QAM	23095	6RB#0	0.009~0.15	-40.99	PASS
Band12	1.4MHz	16QAM	23095	6RB#0	0.15~30	-53.07	PASS
Band12	1.4MHz	16QAM	23095	6RB#0	30~1000	-55.36	PASS
Band12	1.4MHz	16QAM	23095	6RB#0	1000~3000	-44.90	PASS
Band12	1.4MHz	16QAM	23095	6RB#0	3000~10000	-41.90	PASS
Band12	1.4MHz	16QAM	23173	6RB#0	0.009~0.15	-39.53	PASS
Band12	1.4MHz	16QAM	23173	6RB#0	0.15~30	-52.14	PASS
Band12	1.4MHz	16QAM	23173	6RB#0	30~1000	-52.56	PASS
Band12	1.4MHz	16QAM	23173	6RB#0	1000~3000	-45.00	PASS
Band12	1.4MHz	16QAM	23173	6RB#0	3000~10000	-39.85	PASS
Band12	3MHz	QPSK	23025	15RB#0	0.009~0.15	-41.66	PASS
Band12	3MHz	QPSK	23025	15RB#0	0.15~30	-55.40	PASS
Band12	3MHz	QPSK	23025	15RB#0	30~1000	-51.29	PASS
Band12	3MHz	QPSK	23025	15RB#0	1000~3000	-46.91	PASS
Band12	3MHz	QPSK	23025	15RB#0	3000~10000	-43.87	PASS
Band12	3MHz	QPSK	23095	15RB#0	0.009~0.15	-42.37	PASS

Band12	3MHz	QPSK	23095	15RB#0	0.15~30	-52.74	PASS
Band12	3MHz	QPSK	23095	15RB#0	30~1000	-50.98	PASS
Band12	3MHz	QPSK	23095	15RB#0	1000~3000	-46.48	PASS
Band12	3MHz	QPSK	23095	15RB#0	3000~10000	-42.92	PASS
Band12	3MHz	QPSK	23165	15RB#0	0.009~0.15	-43.34	PASS
Band12	3MHz	QPSK	23165	15RB#0	0.15~30	-55.22	PASS
Band12	3MHz	QPSK	23165	15RB#0	30~1000	-50.19	PASS
Band12	3MHz	QPSK	23165	15RB#0	1000~3000	-45.75	PASS
Band12	3MHz	QPSK	23165	15RB#0	3000~10000	-41.45	PASS
Band12	3MHz	16QAM	23025	15RB#0	0.009~0.15	-41.49	PASS
Band12	3MHz	16QAM	23025	15RB#0	0.15~30	-52.95	PASS
Band12	3MHz	16QAM	23025	15RB#0	30~1000	-52.21	PASS
Band12	3MHz	16QAM	23025	15RB#0	1000~3000	-46.57	PASS
Band12	3MHz	16QAM	23025	15RB#0	3000~10000	-43.49	PASS
Band12	3MHz	16QAM	23095	15RB#0	0.009~0.15	-39.56	PASS
Band12	3MHz	16QAM	23095	15RB#0	0.15~30	-52.33	PASS
Band12	3MHz	16QAM	23095	15RB#0	30~1000	-52.14	PASS
Band12	3MHz	16QAM	23095	15RB#0	1000~3000	-47.17	PASS
Band12	3MHz	16QAM	23095	15RB#0	3000~10000	-43.12	PASS
Band12	3MHz	16QAM	23165	15RB#0	0.009~0.15	-39.65	PASS
Band12	3MHz	16QAM	23165	15RB#0	0.15~30	-55.28	PASS
Band12	3MHz	16QAM	23165	15RB#0	30~1000	-53.13	PASS
Band12	3MHz	16QAM	23165	15RB#0	1000~3000	-46.34	PASS
Band12	3MHz	16QAM	23165	15RB#0	3000~10000	-41.88	PASS
Band12	5MHz	QPSK	23035	25RB#0	0.009~0.15	-39.28	PASS
Band12	5MHz	QPSK	23035	25RB#0	0.15~30	-54.57	PASS
Band12	5MHz	QPSK	23035	25RB#0	30~1000	-54.32	PASS
Band12	5MHz	QPSK	23035	25RB#0	1000~3000	-46.77	PASS
Band12	5MHz	QPSK	23035	25RB#0	3000~10000	-43.67	PASS
Band12	5MHz	QPSK	23095	25RB#0	0.009~0.15	-38.89	PASS
Band12	5MHz	QPSK	23095	25RB#0	0.15~30	-55.12	PASS
Band12	5MHz	QPSK	23095	25RB#0	30~1000	-55.49	PASS
Band12	5MHz	QPSK	23095	25RB#0	1000~3000	-46.78	PASS
Band12	5MHz	QPSK	23095	25RB#0	3000~10000	-42.79	PASS
Band12	5MHz	QPSK	23155	25RB#0	0.009~0.15	-45.41	PASS
Band12	5MHz	QPSK	23155	25RB#0	0.15~30	-53.53	PASS
Band12	5MHz	QPSK	23155	25RB#0	30~1000	-52.27	PASS
Band12	5MHz	QPSK	23155	25RB#0	1000~3000	-47.15	PASS
Band12	5MHz	QPSK	23155	25RB#0	3000~10000	-43.47	PASS
Band12	5MHz	16QAM	23035	25RB#0	0.009~0.15	-42.48	PASS
Band12	5MHz	16QAM	23035	25RB#0	0.15~30	-54.14	PASS
Band12	5MHz	16QAM	23035	25RB#0	30~1000	-56.08	PASS
Band12	5MHz	16QAM	23035	25RB#0	1000~3000	-47.21	PASS

Band12	5MHz	16QAM	23035	25RB#0	3000~10000	-43.38	PASS
Band12	5MHz	16QAM	23095	25RB#0	0.009~0.15	-42.33	PASS
Band12	5MHz	16QAM	23095	25RB#0	0.15~30	-55.07	PASS
Band12	5MHz	16QAM	23095	25RB#0	30~1000	-55.92	PASS
Band12	5MHz	16QAM	23095	25RB#0	1000~3000	-46.94	PASS
Band12	5MHz	16QAM	23095	25RB#0	3000~10000	-43.82	PASS
Band12	5MHz	16QAM	23155	25RB#0	0.009~0.15	-42.34	PASS
Band12	5MHz	16QAM	23155	25RB#0	0.15~30	-54.23	PASS
Band12	5MHz	16QAM	23155	25RB#0	30~1000	-52.89	PASS
Band12	5MHz	16QAM	23155	25RB#0	1000~3000	-46.83	PASS
Band12	5MHz	16QAM	23155	25RB#0	3000~10000	-43.32	PASS
Band12	10MHz	QPSK	23060	50RB#0	0.009~0.15	-41.88	PASS
Band12	10MHz	QPSK	23060	50RB#0	0.15~30	-54.92	PASS
Band12	10MHz	QPSK	23060	50RB#0	30~1000	-61.64	PASS
Band12	10MHz	QPSK	23060	50RB#0	1000~3000	-46.83	PASS
Band12	10MHz	QPSK	23060	50RB#0	3000~10000	-43.51	PASS
Band12	10MHz	QPSK	23095	50RB#0	0.009~0.15	-41.49	PASS
Band12	10MHz	QPSK	23095	50RB#0	0.15~30	-53.43	PASS
Band12	10MHz	QPSK	23095	50RB#0	30~1000	-61.84	PASS
Band12	10MHz	QPSK	23095	50RB#0	1000~3000	-47.09	PASS
Band12	10MHz	QPSK	23095	50RB#0	3000~10000	-43.85	PASS
Band12	10MHz	QPSK	23130	50RB#0	0.009~0.15	-36.50	PASS
Band12	10MHz	QPSK	23130	50RB#0	0.15~30	-52.40	PASS
Band12	10MHz	QPSK	23130	50RB#0	30~1000	-61.53	PASS
Band12	10MHz	QPSK	23130	50RB#0	1000~3000	-47.04	PASS
Band12	10MHz	QPSK	23130	50RB#0	3000~10000	-43.02	PASS
Band12	10MHz	16QAM	23060	50RB#0	0.009~0.15	-42.38	PASS
Band12	10MHz	16QAM	23060	50RB#0	0.15~30	-52.81	PASS
Band12	10MHz	16QAM	23060	50RB#0	30~1000	-61.69	PASS
Band12	10MHz	16QAM	23060	50RB#0	1000~3000	-46.57	PASS
Band12	10MHz	16QAM	23060	50RB#0	3000~10000	-43.45	PASS
Band12	10MHz	16QAM	23095	50RB#0	0.009~0.15	-43.58	PASS
Band12	10MHz	16QAM	23095	50RB#0	0.15~30	-52.95	PASS
Band12	10MHz	16QAM	23095	50RB#0	30~1000	-61.60	PASS
Band12	10MHz	16QAM	23095	50RB#0	1000~3000	-47.12	PASS
Band12	10MHz	16QAM	23095	50RB#0	3000~10000	-43.14	PASS
Band12	10MHz	16QAM	23130	50RB#0	0.009~0.15	-41.43	PASS
Band12	10MHz	16QAM	23130	50RB#0	0.15~30	-54.16	PASS
Band12	10MHz	16QAM	23130	50RB#0	30~1000	-61.70	PASS
Band12	10MHz	16QAM	23130	50RB#0	1000~3000	-47.14	PASS
Band12	10MHz	16QAM	23130	50RB#0	3000~10000	-43.64	PASS

Test Graphs

