

FCC LTE Band Test Data

FCC ID : 2BG6D-SDM660

Company: : Dongguan Yigaoxin Electronic Technology Co., Ltd.

EUT : Wireless Carplay Box

Model Number : SDM660

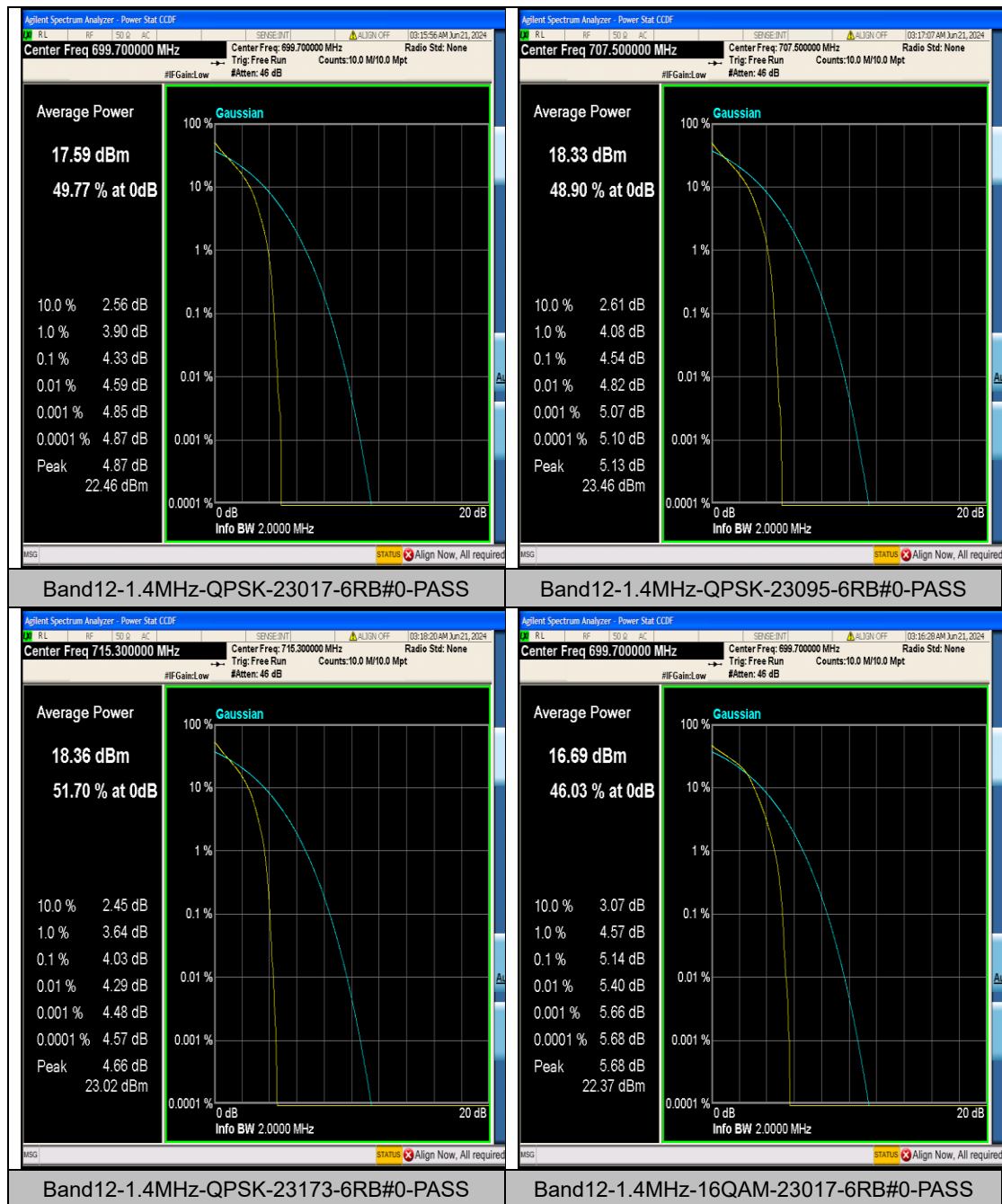
Reviewed By : Eric Wang

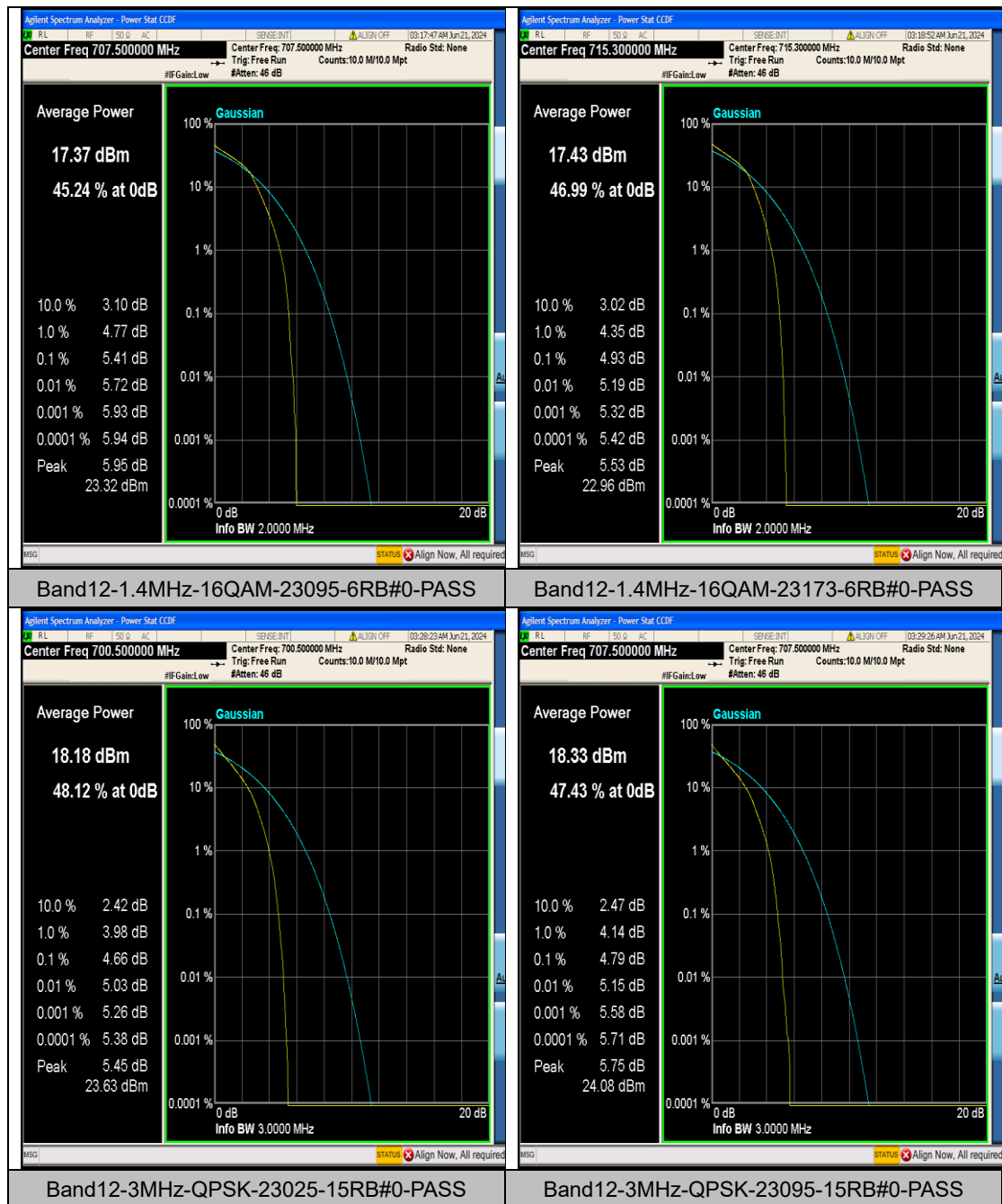
Appendix B: Peak-to-Average Ratio(CCDF)

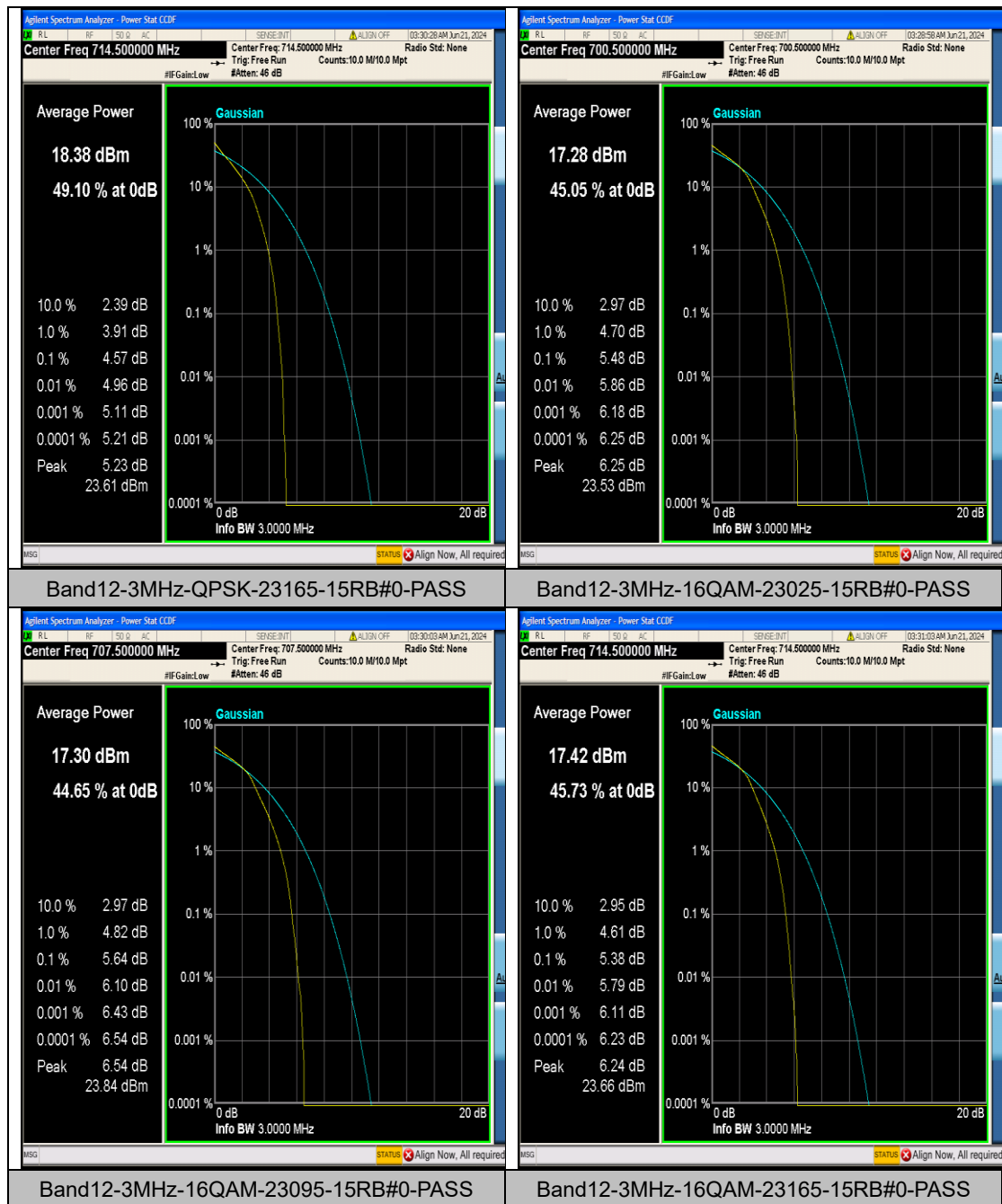
Test Result

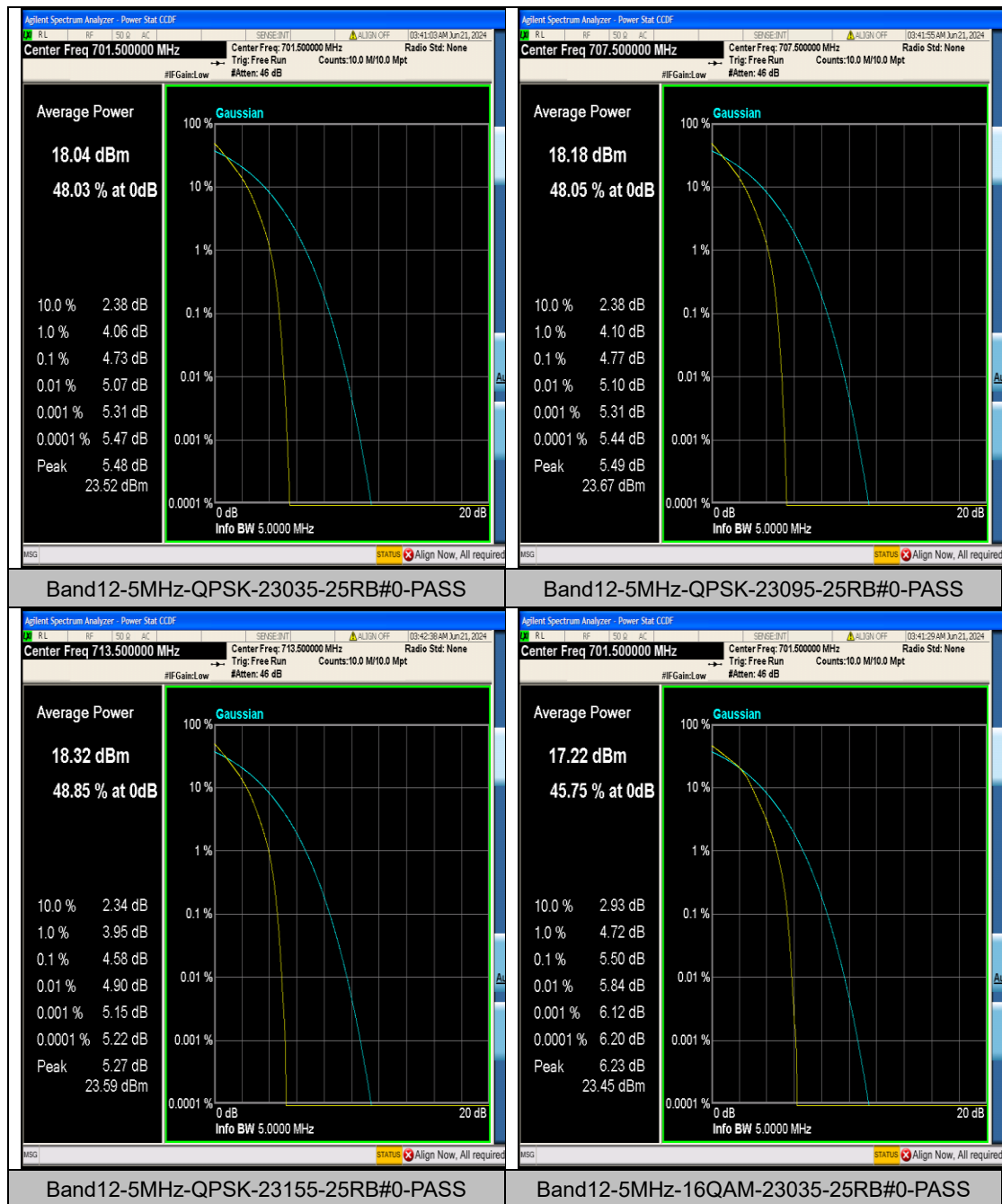
Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band12	1.4MHz	QPSK	23017	6RB#0	4.33	13	PASS
Band12	1.4MHz	QPSK	23095	6RB#0	4.54	13	PASS
Band12	1.4MHz	QPSK	23173	6RB#0	4.03	13	PASS
Band12	1.4MHz	16QAM	23017	6RB#0	5.14	13	PASS
Band12	1.4MHz	16QAM	23095	6RB#0	5.41	13	PASS
Band12	1.4MHz	16QAM	23173	6RB#0	4.93	13	PASS
Band12	3MHz	QPSK	23025	15RB#0	4.66	13	PASS
Band12	3MHz	QPSK	23095	15RB#0	4.79	13	PASS
Band12	3MHz	QPSK	23165	15RB#0	4.57	13	PASS
Band12	3MHz	16QAM	23025	15RB#0	5.48	13	PASS
Band12	3MHz	16QAM	23095	15RB#0	5.64	13	PASS
Band12	3MHz	16QAM	23165	15RB#0	5.38	13	PASS
Band12	5MHz	QPSK	23035	25RB#0	4.73	13	PASS
Band12	5MHz	QPSK	23095	25RB#0	4.77	13	PASS
Band12	5MHz	QPSK	23155	25RB#0	4.58	13	PASS
Band12	5MHz	16QAM	23035	25RB#0	5.50	13	PASS
Band12	5MHz	16QAM	23095	25RB#0	5.63	13	PASS
Band12	5MHz	16QAM	23155	25RB#0	5.42	13	PASS
Band12	10MHz	QPSK	23060	50RB#0	4.71	13	PASS
Band12	10MHz	QPSK	23095	50RB#0	4.73	13	PASS
Band12	10MHz	QPSK	23130	50RB#0	4.66	13	PASS
Band12	10MHz	16QAM	23060	50RB#0	5.53	13	PASS
Band12	10MHz	16QAM	23095	50RB#0	5.64	13	PASS
Band12	10MHz	16QAM	23130	50RB#0	5.55	13	PASS

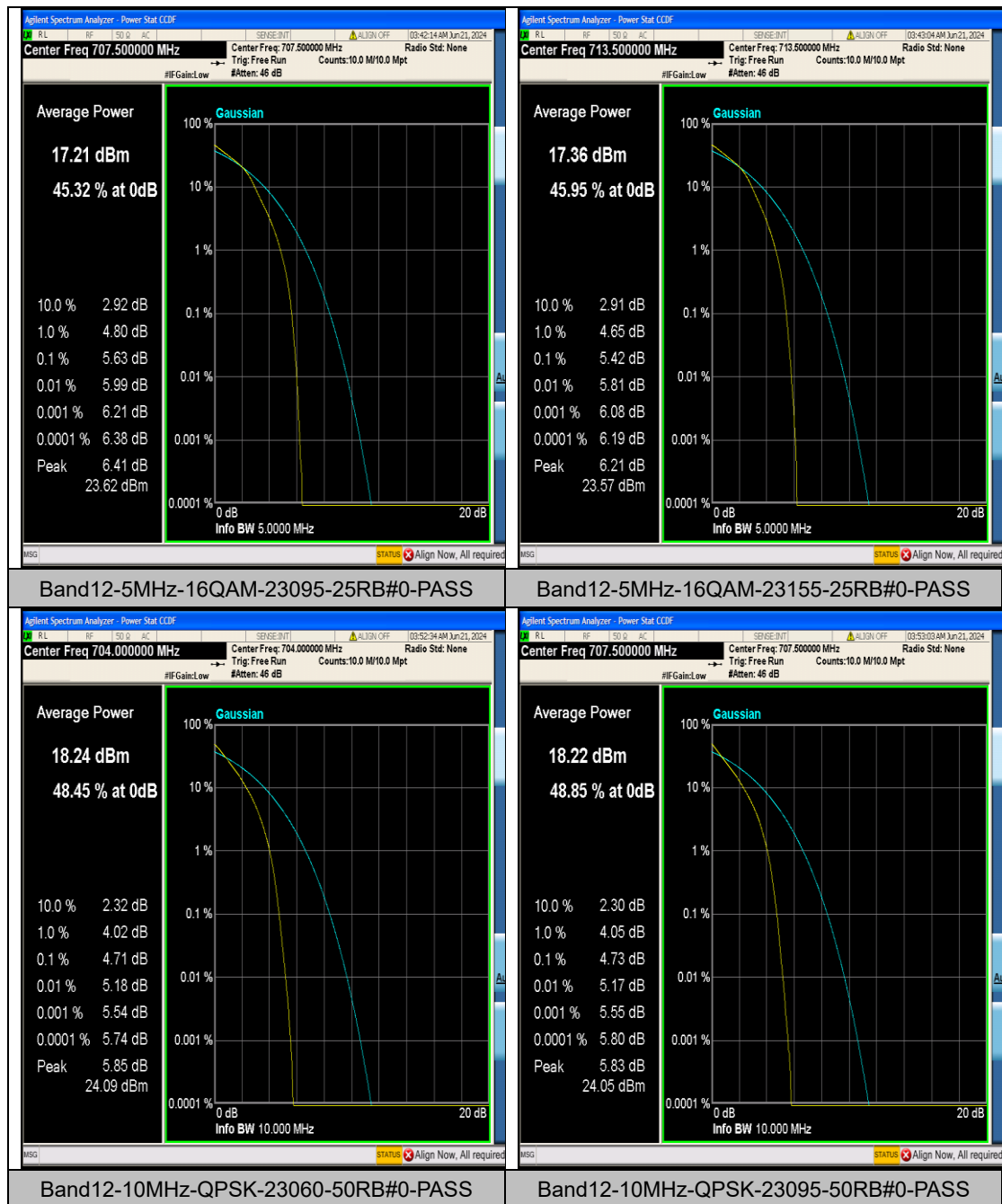
Test Graphs

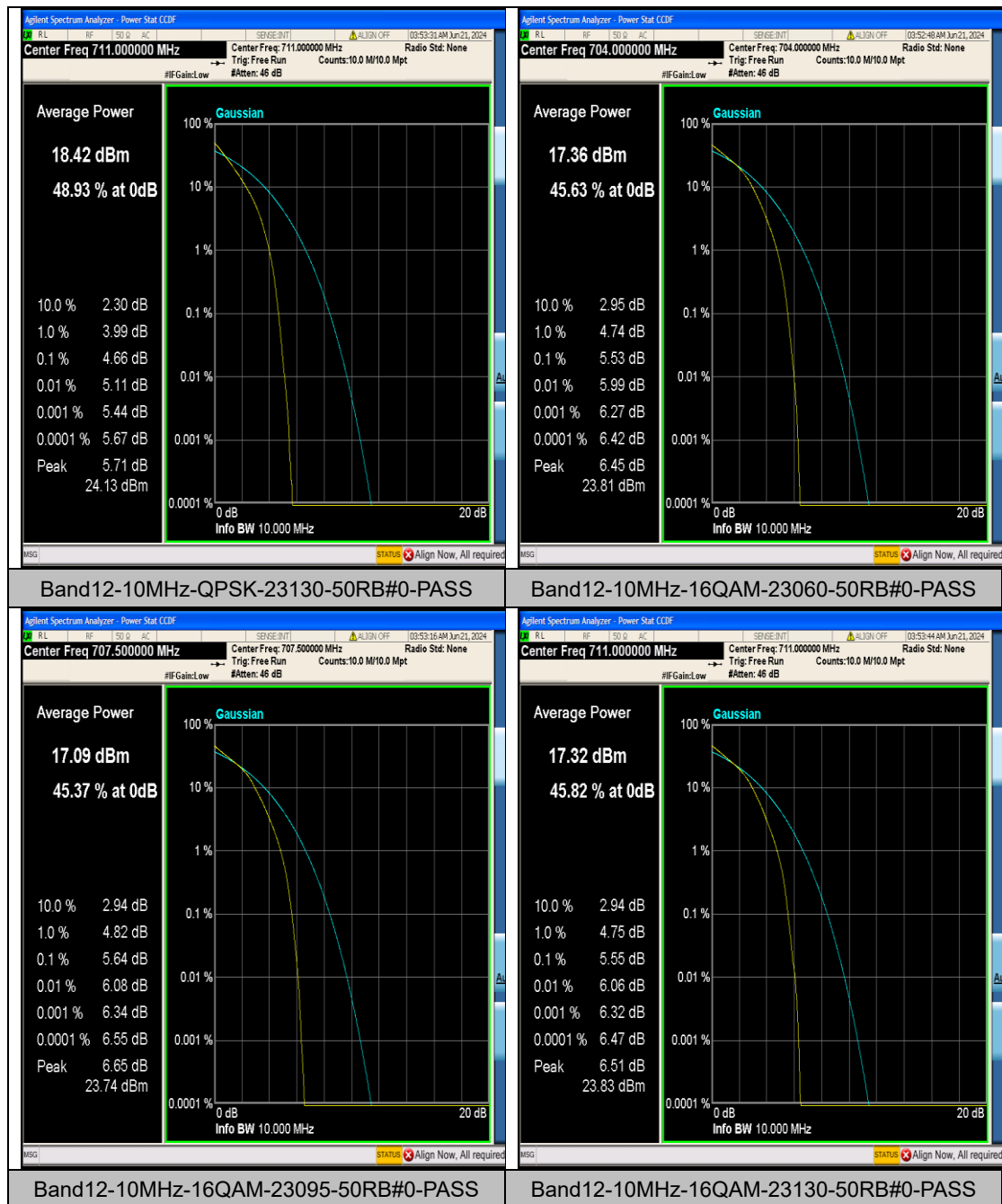










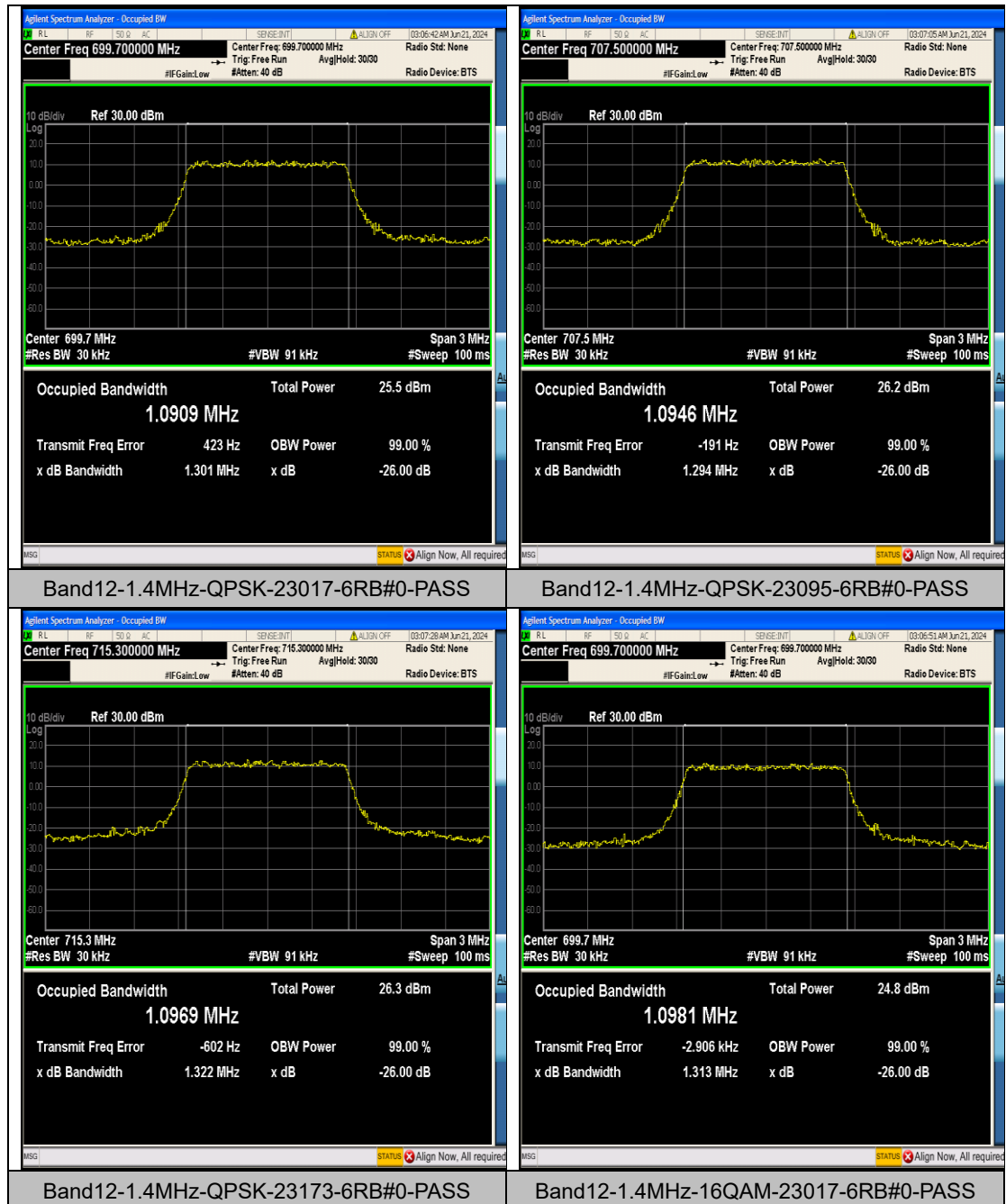


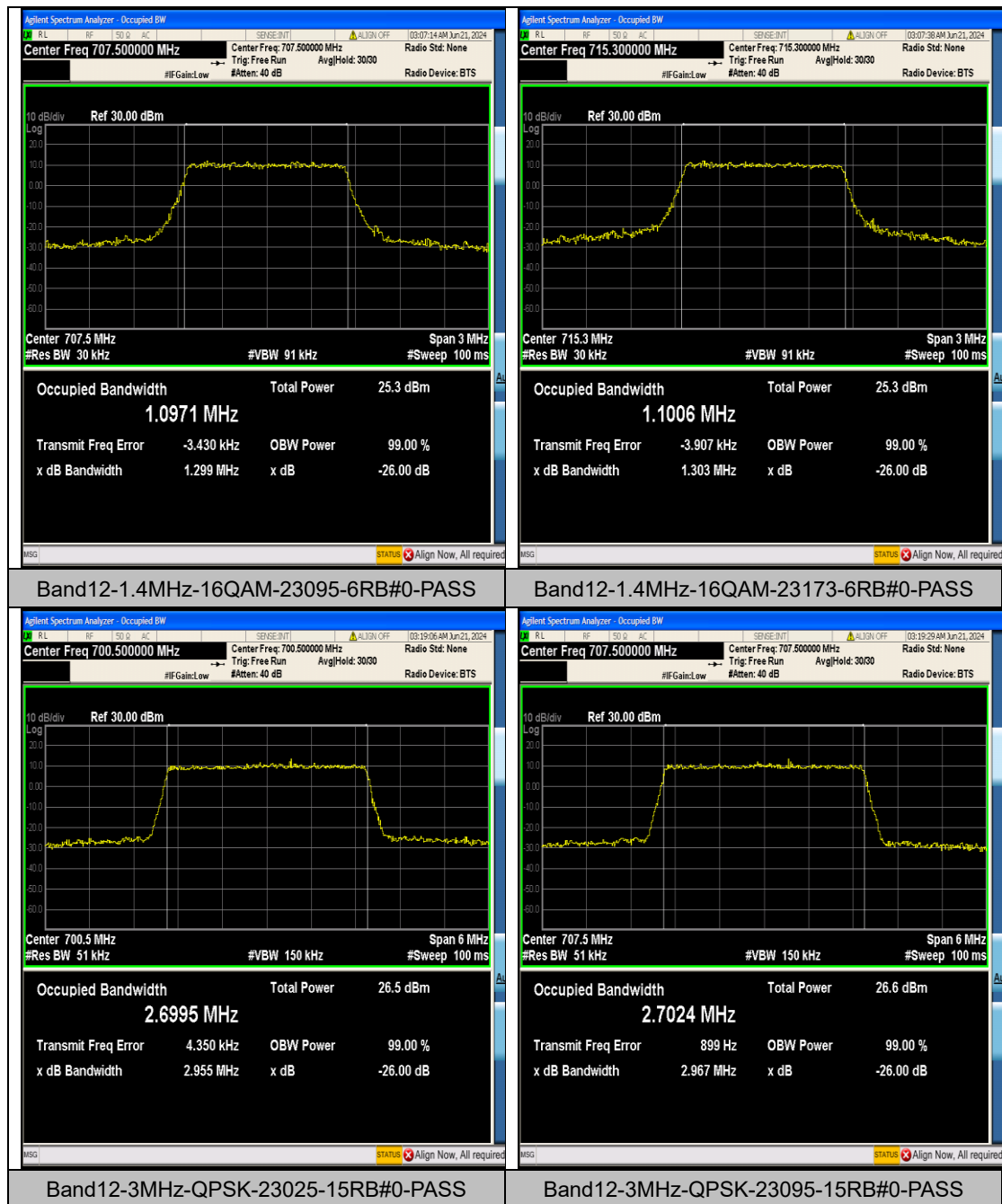
Appendix C: 26dB Bandwidth and Occupied Bandwidth

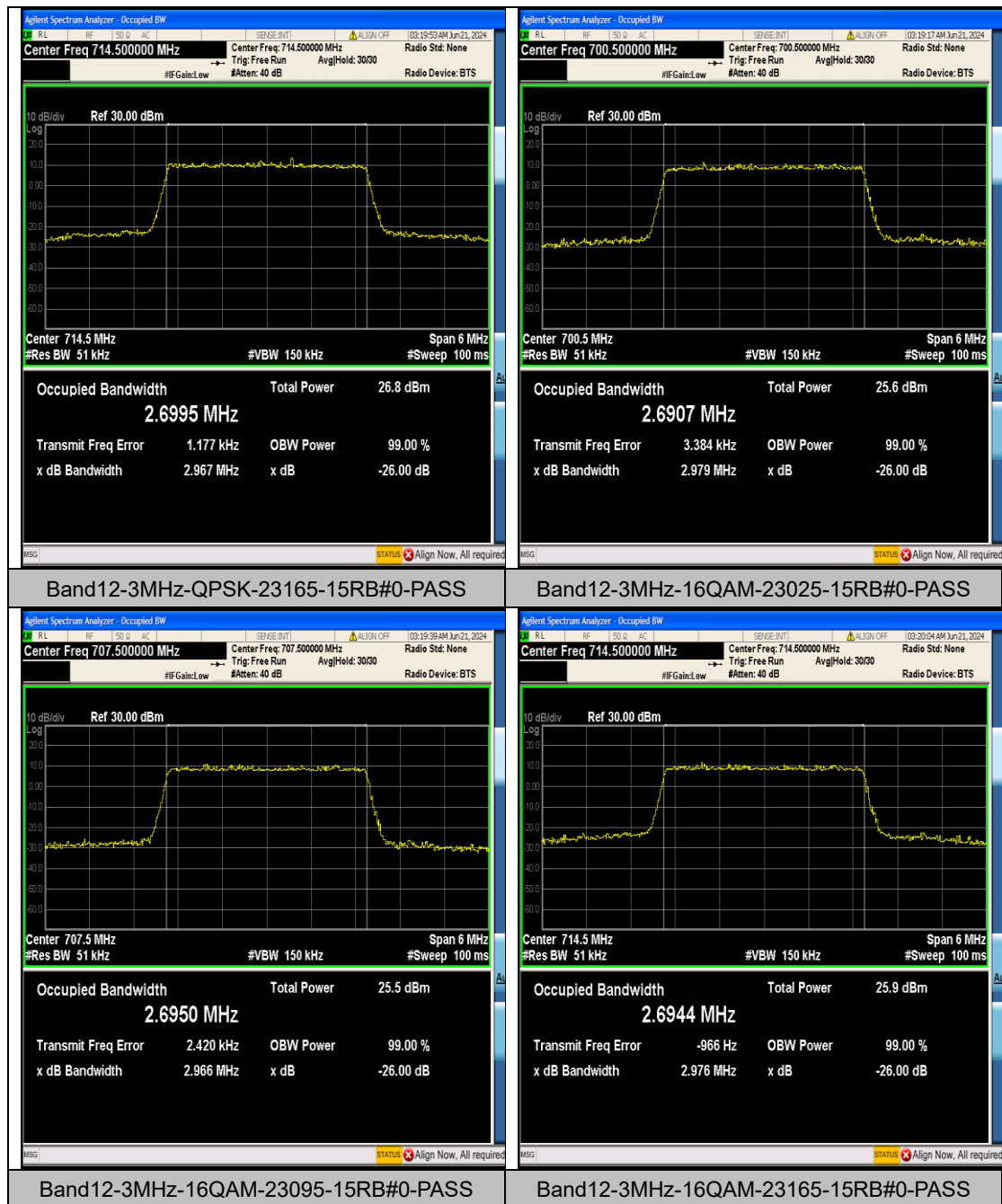
Test Result

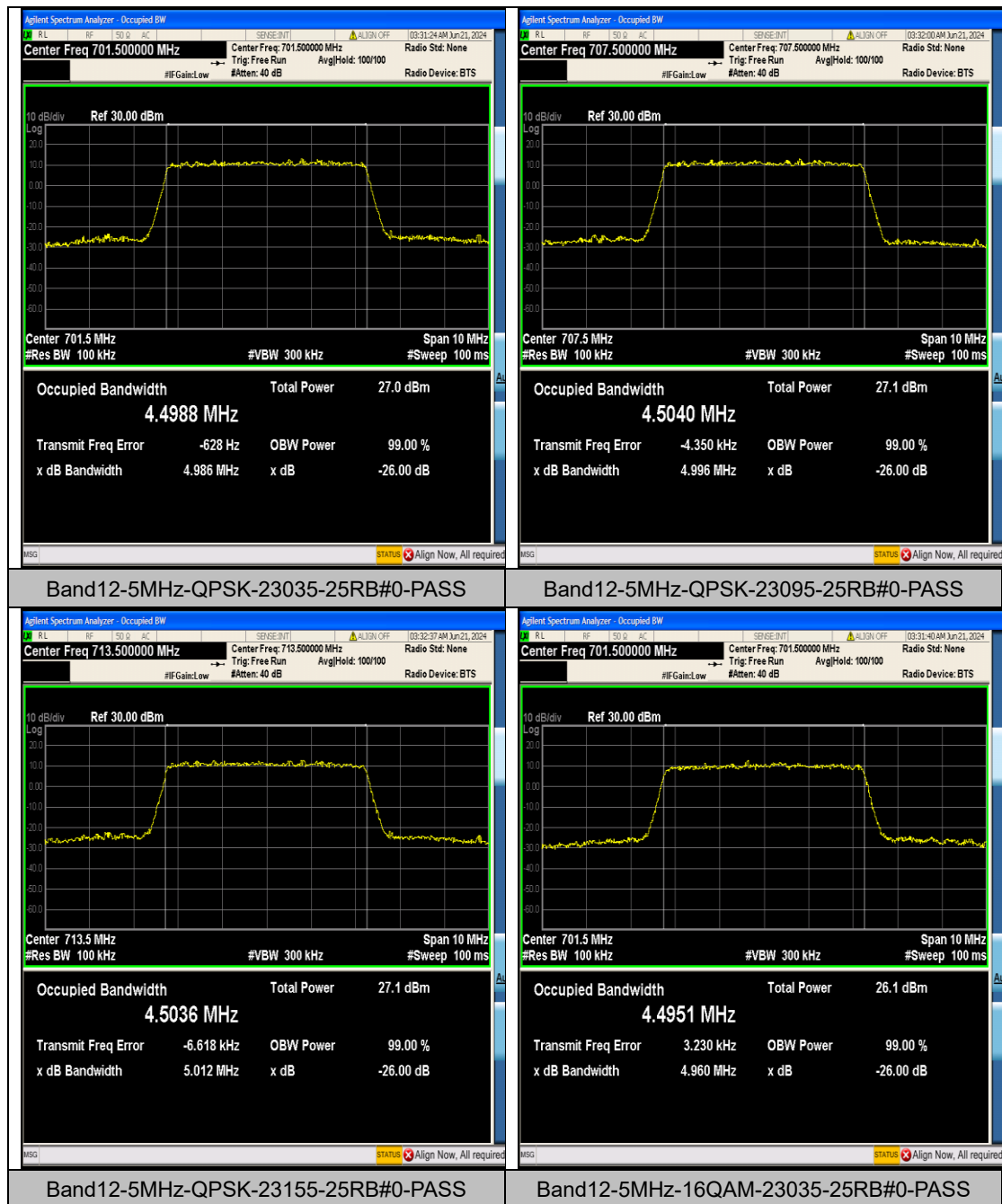
Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band12	1.4MHz	QPSK	23017	6RB#0	1.0909	1.301	PASS
Band12	1.4MHz	QPSK	23095	6RB#0	1.0946	1.294	PASS
Band12	1.4MHz	QPSK	23173	6RB#0	1.0969	1.322	PASS
Band12	1.4MHz	16QAM	23017	6RB#0	1.0981	1.313	PASS
Band12	1.4MHz	16QAM	23095	6RB#0	1.0971	1.299	PASS
Band12	1.4MHz	16QAM	23173	6RB#0	1.1006	1.303	PASS
Band12	3MHz	QPSK	23025	15RB#0	2.6995	2.955	PASS
Band12	3MHz	QPSK	23095	15RB#0	2.7024	2.967	PASS
Band12	3MHz	QPSK	23165	15RB#0	2.6995	2.967	PASS
Band12	3MHz	16QAM	23025	15RB#0	2.6907	2.979	PASS
Band12	3MHz	16QAM	23095	15RB#0	2.6950	2.966	PASS
Band12	3MHz	16QAM	23165	15RB#0	2.6944	2.976	PASS
Band12	5MHz	QPSK	23035	25RB#0	4.4988	4.986	PASS
Band12	5MHz	QPSK	23095	25RB#0	4.5040	4.996	PASS
Band12	5MHz	QPSK	23155	25RB#0	4.5036	5.012	PASS
Band12	5MHz	16QAM	23035	25RB#0	4.4951	4.960	PASS
Band12	5MHz	16QAM	23095	25RB#0	4.4973	4.940	PASS
Band12	5MHz	16QAM	23155	25RB#0	4.4975	4.952	PASS
Band12	10MHz	QPSK	23060	50RB#0	8.9630	9.916	PASS
Band12	10MHz	QPSK	23095	50RB#0	8.9797	9.897	PASS
Band12	10MHz	QPSK	23130	50RB#0	8.9685	9.926	PASS
Band12	10MHz	16QAM	23060	50RB#0	8.9608	9.809	PASS
Band12	10MHz	16QAM	23095	50RB#0	8.9655	9.898	PASS
Band12	10MHz	16QAM	23130	50RB#0	8.9677	9.870	PASS

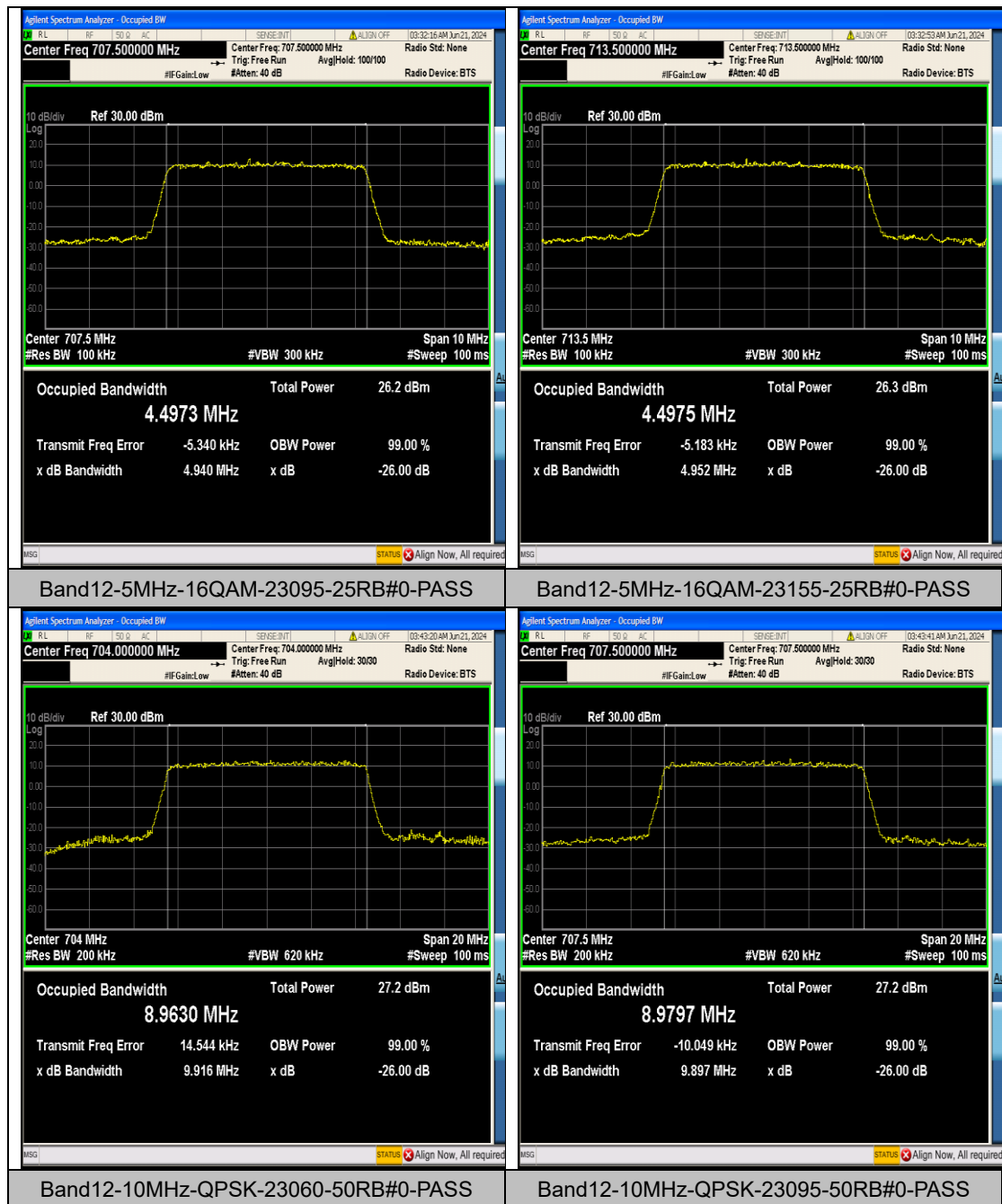
Test Graphs

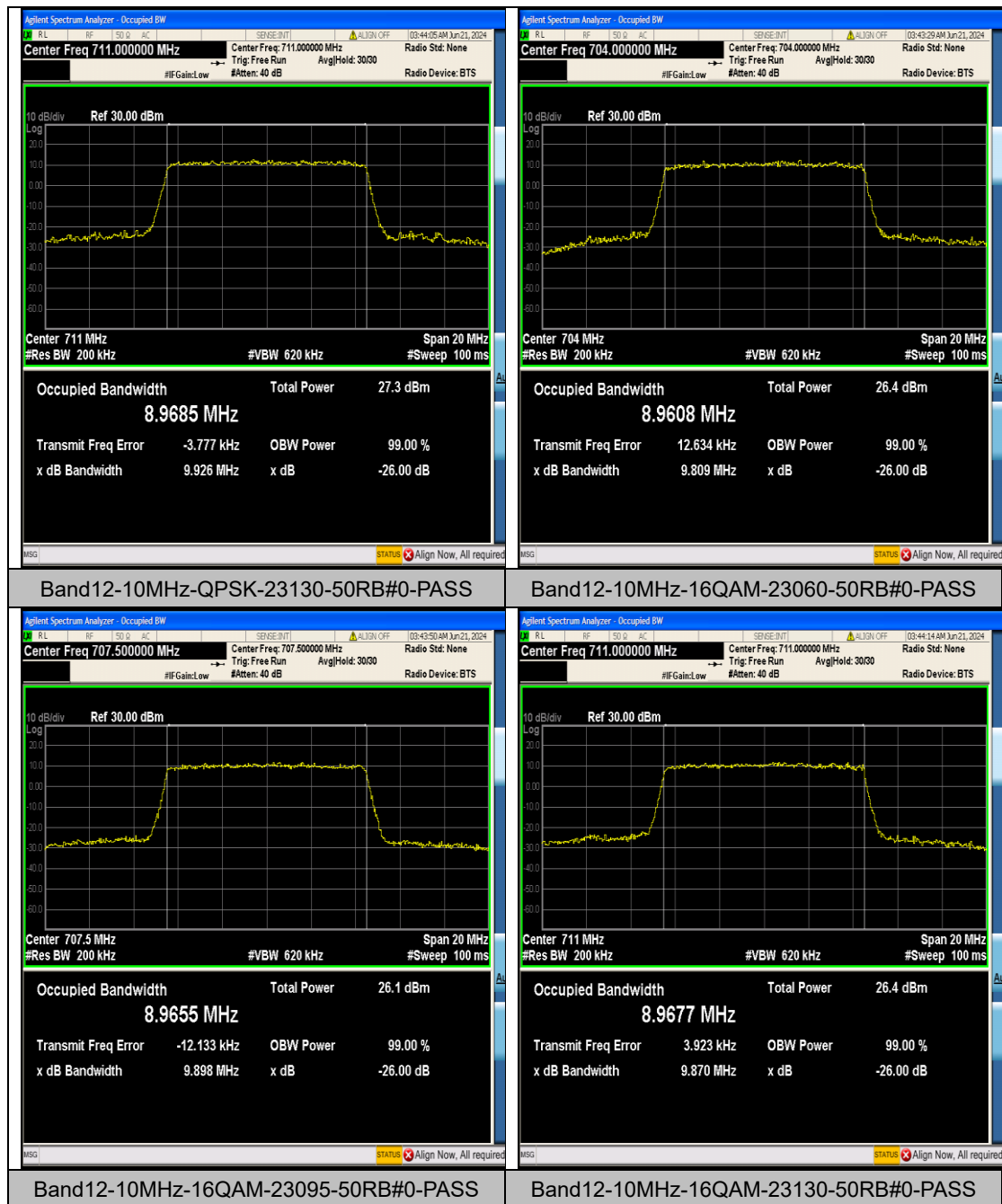










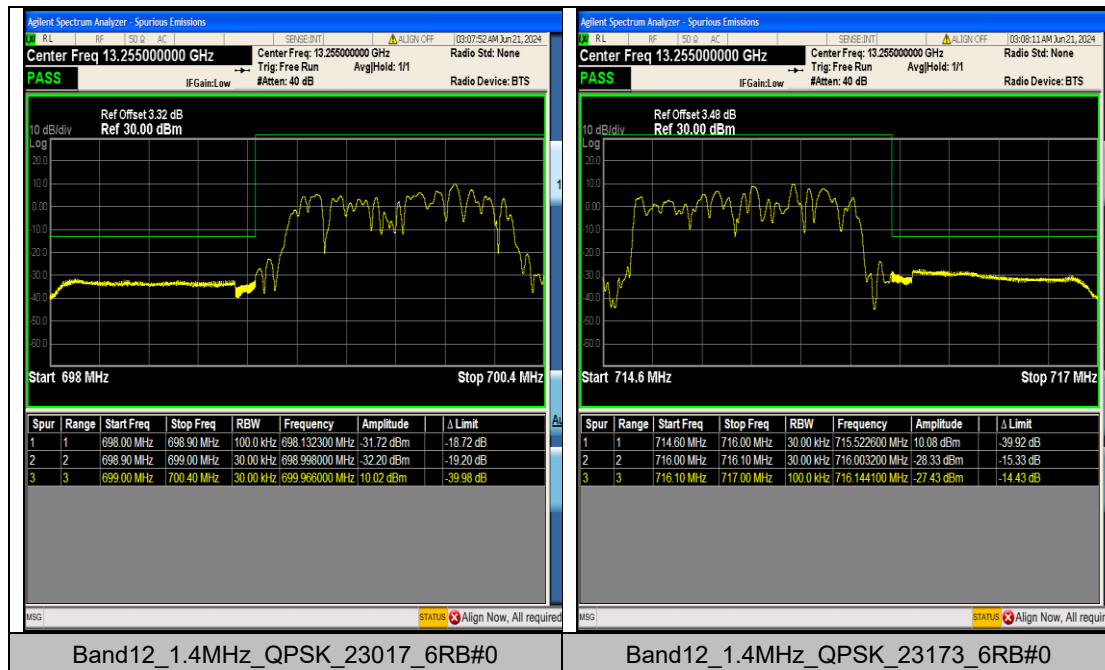


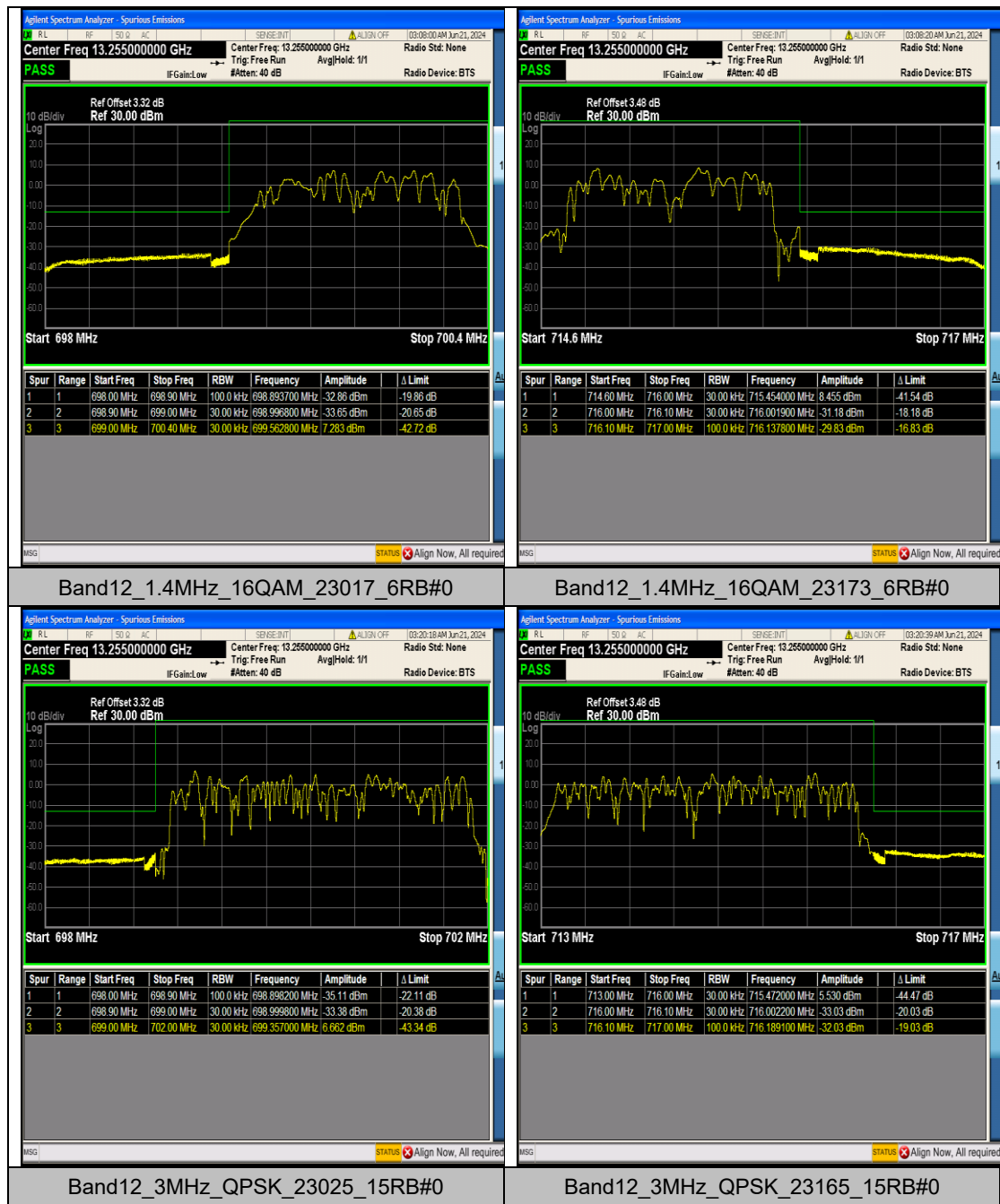
Appendix D: Band Edge

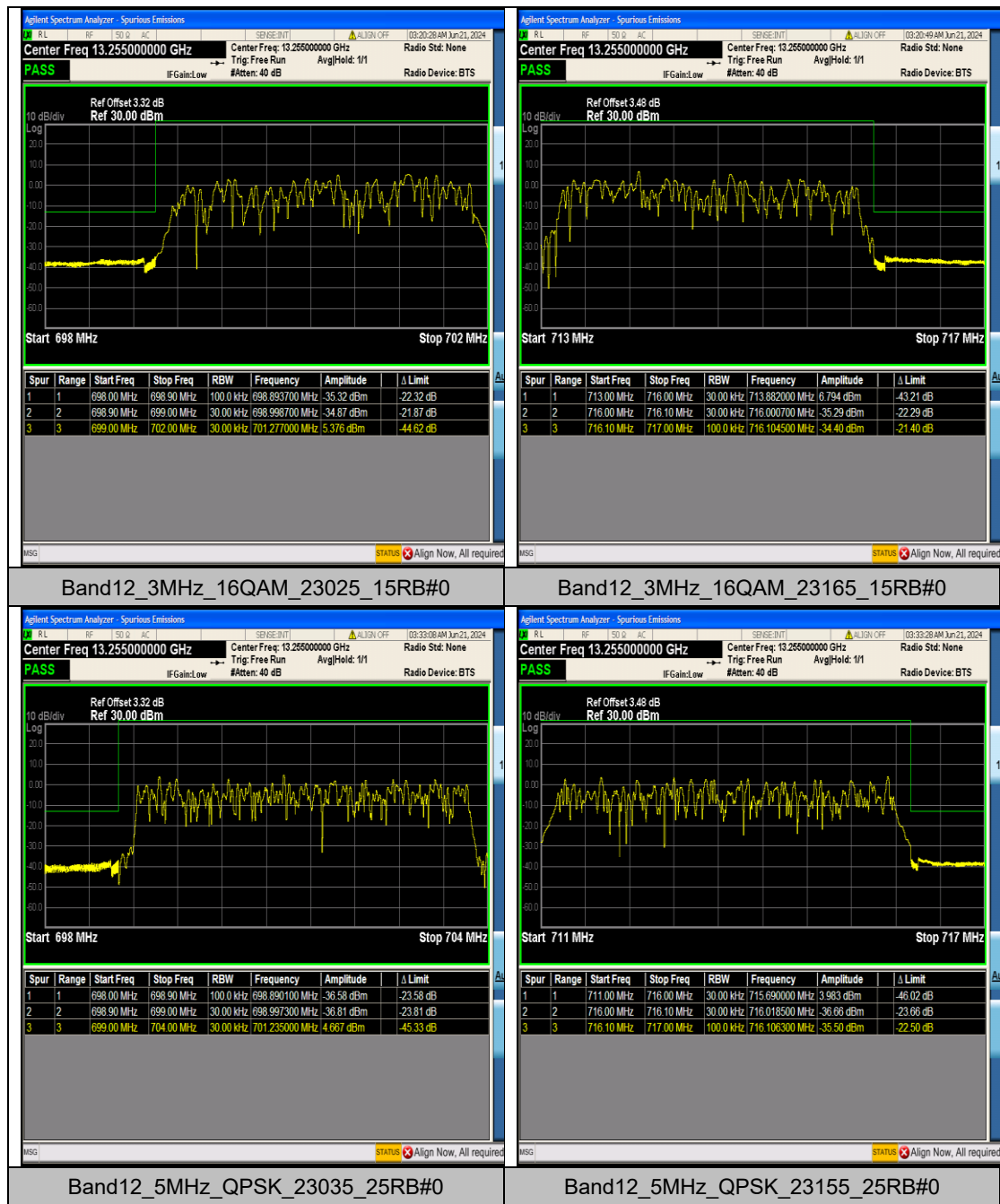
Test Result

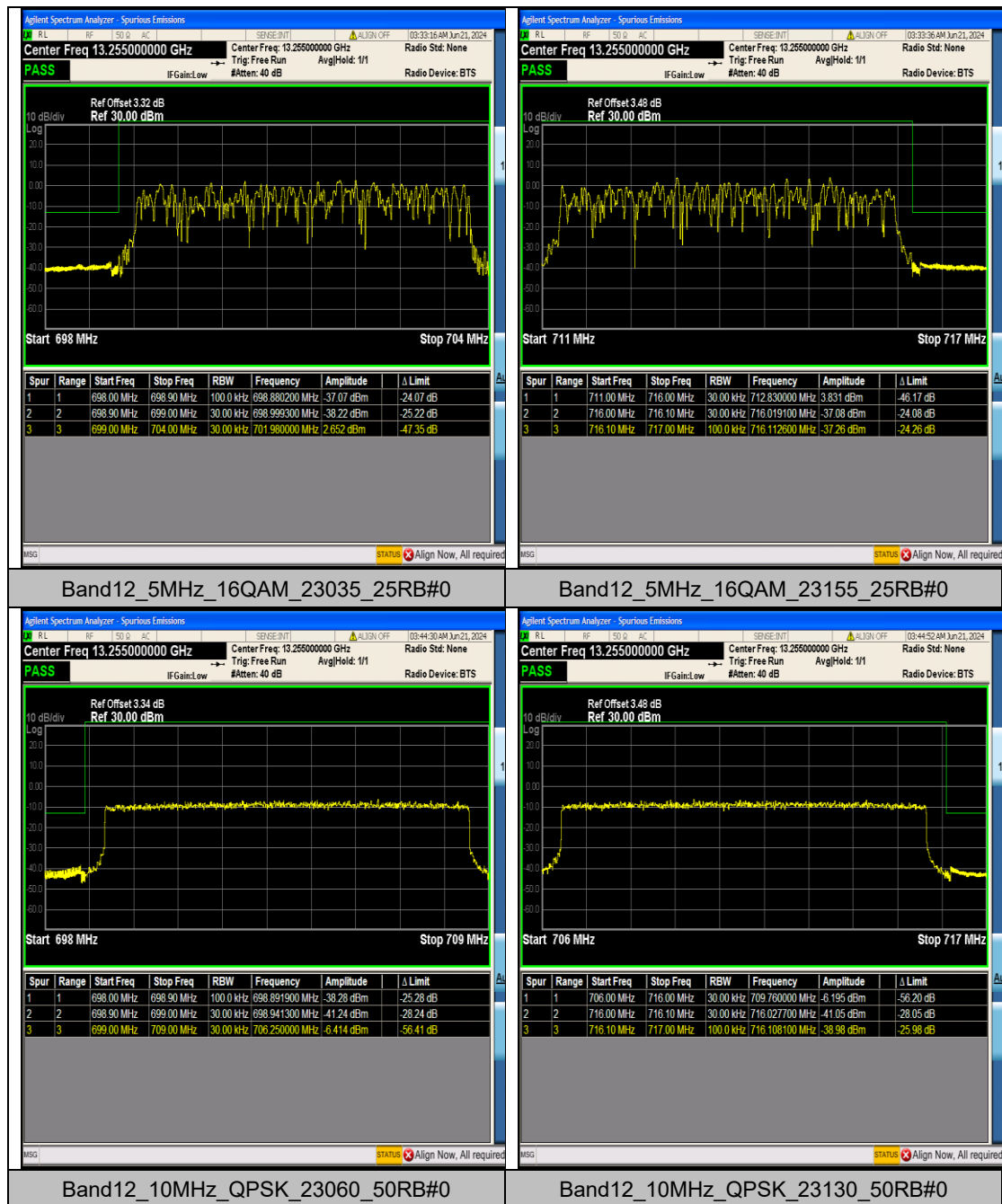
Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band12	1.4MHz	QPSK	23017	6RB#0	-31.72	PASS
Band12	1.4MHz	QPSK	23173	6RB#0	-27.43	PASS
Band12	1.4MHz	16QAM	23017	6RB#0	-32.86	PASS
Band12	1.4MHz	16QAM	23173	6RB#0	-29.83	PASS
Band12	3MHz	QPSK	23025	15RB#0	-33.38	PASS
Band12	3MHz	QPSK	23165	15RB#0	-32.03	PASS
Band12	3MHz	16QAM	23025	15RB#0	-34.87	PASS
Band12	3MHz	16QAM	23165	15RB#0	-34.40	PASS
Band12	5MHz	QPSK	23035	25RB#0	-36.58	PASS
Band12	5MHz	QPSK	23155	25RB#0	-35.50	PASS
Band12	5MHz	16QAM	23035	25RB#0	-37.07	PASS
Band12	5MHz	16QAM	23155	25RB#0	-37.08	PASS
Band12	10MHz	QPSK	23060	50RB#0	-38.28	PASS
Band12	10MHz	QPSK	23130	50RB#0	-38.98	PASS
Band12	10MHz	16QAM	23060	50RB#0	-40.79	PASS
Band12	10MHz	16QAM	23130	50RB#0	-40.14	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	-49.26	PASS
Band12	1.4MHz	QPSK	23017	6RB#0	0.15~30	-59.21	PASS
Band12	1.4MHz	QPSK	23017	6RB#0	30~1000	-57.22	PASS
Band12	1.4MHz	QPSK	23017	6RB#0	1000~3000	-51.78	PASS
Band12	1.4MHz	QPSK	23017	6RB#0	3000~10000	-49.94	PASS
Band12	1.4MHz	QPSK	23095	6RB#0	0.009~0.15	-47.88	PASS
Band12	1.4MHz	QPSK	23095	6RB#0	0.15~30	-58.06	PASS
Band12	1.4MHz	QPSK	23095	6RB#0	30~1000	-56.56	PASS
Band12	1.4MHz	QPSK	23095	6RB#0	1000~3000	-52.27	PASS
Band12	1.4MHz	QPSK	23095	6RB#0	3000~10000	-50.27	PASS
Band12	1.4MHz	QPSK	23173	6RB#0	0.009~0.15	-47.36	PASS
Band12	1.4MHz	QPSK	23173	6RB#0	0.15~30	-58.13	PASS
Band12	1.4MHz	QPSK	23173	6RB#0	30~1000	-55.42	PASS
Band12	1.4MHz	QPSK	23173	6RB#0	1000~3000	-50.72	PASS
Band12	1.4MHz	QPSK	23173	6RB#0	3000~10000	-50.05	PASS
Band12	1.4MHz	16QAM	23017	6RB#0	0.009~0.15	-48.13	PASS
Band12	1.4MHz	16QAM	23017	6RB#0	0.15~30	-57.46	PASS
Band12	1.4MHz	16QAM	23017	6RB#0	30~1000	-57.86	PASS
Band12	1.4MHz	16QAM	23017	6RB#0	1000~3000	-52.59	PASS
Band12	1.4MHz	16QAM	23017	6RB#0	3000~10000	-49.93	PASS
Band12	1.4MHz	16QAM	23095	6RB#0	0.009~0.15	-47.12	PASS
Band12	1.4MHz	16QAM	23095	6RB#0	0.15~30	-58.27	PASS
Band12	1.4MHz	16QAM	23095	6RB#0	30~1000	-57.67	PASS
Band12	1.4MHz	16QAM	23095	6RB#0	1000~3000	-52.24	PASS
Band12	1.4MHz	16QAM	23095	6RB#0	3000~10000	-49.96	PASS
Band12	1.4MHz	16QAM	23173	6RB#0	0.009~0.15	-48.87	PASS
Band12	1.4MHz	16QAM	23173	6RB#0	0.15~30	-58.97	PASS
Band12	1.4MHz	16QAM	23173	6RB#0	30~1000	-57.49	PASS
Band12	1.4MHz	16QAM	23173	6RB#0	1000~3000	-51.92	PASS
Band12	1.4MHz	16QAM	23173	6RB#0	3000~10000	-49.55	PASS
Band12	3MHz	QPSK	23025	15RB#0	0.009~0.15	-47.29	PASS
Band12	3MHz	QPSK	23025	15RB#0	0.15~30	-57.83	PASS
Band12	3MHz	QPSK	23025	15RB#0	30~1000	-55.67	PASS
Band12	3MHz	QPSK	23025	15RB#0	1000~3000	-52.74	PASS
Band12	3MHz	QPSK	23025	15RB#0	3000~10000	-50.04	PASS
Band12	3MHz	QPSK	23095	15RB#0	0.009~0.15	-50.47	PASS

Band12	3MHz	QPSK	23095	15RB#0	0.15~30	-59.75	PASS
Band12	3MHz	QPSK	23095	15RB#0	30~1000	-55.49	PASS
Band12	3MHz	QPSK	23095	15RB#0	1000~3000	-52.47	PASS
Band12	3MHz	QPSK	23095	15RB#0	3000~10000	-49.56	PASS
Band12	3MHz	QPSK	23165	15RB#0	0.009~0.15	-47.99	PASS
Band12	3MHz	QPSK	23165	15RB#0	0.15~30	-57.45	PASS
Band12	3MHz	QPSK	23165	15RB#0	30~1000	-52.47	PASS
Band12	3MHz	QPSK	23165	15RB#0	1000~3000	-51.85	PASS
Band12	3MHz	QPSK	23165	15RB#0	3000~10000	-49.96	PASS
Band12	3MHz	16QAM	23025	15RB#0	0.009~0.15	-50.59	PASS
Band12	3MHz	16QAM	23025	15RB#0	0.15~30	-58.44	PASS
Band12	3MHz	16QAM	23025	15RB#0	30~1000	-57.74	PASS
Band12	3MHz	16QAM	23025	15RB#0	1000~3000	-52.78	PASS
Band12	3MHz	16QAM	23025	15RB#0	3000~10000	-49.92	PASS
Band12	3MHz	16QAM	23095	15RB#0	0.009~0.15	-46.28	PASS
Band12	3MHz	16QAM	23095	15RB#0	0.15~30	-57.50	PASS
Band12	3MHz	16QAM	23095	15RB#0	30~1000	-57.24	PASS
Band12	3MHz	16QAM	23095	15RB#0	1000~3000	-52.56	PASS
Band12	3MHz	16QAM	23095	15RB#0	3000~10000	-49.81	PASS
Band12	3MHz	16QAM	23165	15RB#0	0.009~0.15	-45.84	PASS
Band12	3MHz	16QAM	23165	15RB#0	0.15~30	-57.64	PASS
Band12	3MHz	16QAM	23165	15RB#0	30~1000	-56.26	PASS
Band12	3MHz	16QAM	23165	15RB#0	1000~3000	-52.61	PASS
Band12	3MHz	16QAM	23165	15RB#0	3000~10000	-49.58	PASS
Band12	5MHz	QPSK	23035	25RB#0	0.009~0.15	-47.18	PASS
Band12	5MHz	QPSK	23035	25RB#0	0.15~30	-57.67	PASS
Band12	5MHz	QPSK	23035	25RB#0	30~1000	-57.35	PASS
Band12	5MHz	QPSK	23035	25RB#0	1000~3000	-52.94	PASS
Band12	5MHz	QPSK	23035	25RB#0	3000~10000	-49.75	PASS
Band12	5MHz	QPSK	23095	25RB#0	0.009~0.15	-50.23	PASS
Band12	5MHz	QPSK	23095	25RB#0	0.15~30	-59.51	PASS
Band12	5MHz	QPSK	23095	25RB#0	30~1000	-59.72	PASS
Band12	5MHz	QPSK	23095	25RB#0	1000~3000	-52.22	PASS
Band12	5MHz	QPSK	23095	25RB#0	3000~10000	-49.74	PASS
Band12	5MHz	QPSK	23155	25RB#0	0.009~0.15	-45.13	PASS
Band12	5MHz	QPSK	23155	25RB#0	0.15~30	-59.00	PASS
Band12	5MHz	QPSK	23155	25RB#0	30~1000	-56.79	PASS
Band12	5MHz	QPSK	23155	25RB#0	1000~3000	-52.82	PASS
Band12	5MHz	QPSK	23155	25RB#0	3000~10000	-49.65	PASS
Band12	5MHz	16QAM	23035	25RB#0	0.009~0.15	-48.29	PASS
Band12	5MHz	16QAM	23035	25RB#0	0.15~30	-59.15	PASS
Band12	5MHz	16QAM	23035	25RB#0	30~1000	-58.31	PASS
Band12	5MHz	16QAM	23035	25RB#0	1000~3000	-52.31	PASS

Band12	5MHz	16QAM	23035	25RB#0	3000~10000	-49.69	PASS
Band12	5MHz	16QAM	23095	25RB#0	0.009~0.15	-48.66	PASS
Band12	5MHz	16QAM	23095	25RB#0	0.15~30	-60.08	PASS
Band12	5MHz	16QAM	23095	25RB#0	30~1000	-61.11	PASS
Band12	5MHz	16QAM	23095	25RB#0	1000~3000	-52.43	PASS
Band12	5MHz	16QAM	23095	25RB#0	3000~10000	-49.76	PASS
Band12	5MHz	16QAM	23155	25RB#0	0.009~0.15	-49.24	PASS
Band12	5MHz	16QAM	23155	25RB#0	0.15~30	-56.89	PASS
Band12	5MHz	16QAM	23155	25RB#0	30~1000	-59.55	PASS
Band12	5MHz	16QAM	23155	25RB#0	1000~3000	-52.68	PASS
Band12	5MHz	16QAM	23155	25RB#0	3000~10000	-49.72	PASS
Band12	10MHz	QPSK	23060	50RB#0	0.009~0.15	-46.50	PASS
Band12	10MHz	QPSK	23060	50RB#0	0.15~30	-58.42	PASS
Band12	10MHz	QPSK	23060	50RB#0	30~1000	-66.50	PASS
Band12	10MHz	QPSK	23060	50RB#0	1000~3000	-52.47	PASS
Band12	10MHz	QPSK	23060	50RB#0	3000~10000	-49.51	PASS
Band12	10MHz	QPSK	23095	50RB#0	0.009~0.15	-45.49	PASS
Band12	10MHz	QPSK	23095	50RB#0	0.15~30	-60.69	PASS
Band12	10MHz	QPSK	23095	50RB#0	30~1000	-66.61	PASS
Band12	10MHz	QPSK	23095	50RB#0	1000~3000	-52.10	PASS
Band12	10MHz	QPSK	23095	50RB#0	3000~10000	-50.02	PASS
Band12	10MHz	QPSK	23130	50RB#0	0.009~0.15	-50.24	PASS
Band12	10MHz	QPSK	23130	50RB#0	0.15~30	-60.27	PASS
Band12	10MHz	QPSK	23130	50RB#0	30~1000	-66.38	PASS
Band12	10MHz	QPSK	23130	50RB#0	1000~3000	-52.57	PASS
Band12	10MHz	QPSK	23130	50RB#0	3000~10000	-49.64	PASS
Band12	10MHz	16QAM	23060	50RB#0	0.009~0.15	-46.50	PASS
Band12	10MHz	16QAM	23060	50RB#0	0.15~30	-57.00	PASS
Band12	10MHz	16QAM	23060	50RB#0	30~1000	-66.58	PASS
Band12	10MHz	16QAM	23060	50RB#0	1000~3000	-52.16	PASS
Band12	10MHz	16QAM	23060	50RB#0	3000~10000	-49.94	PASS
Band12	10MHz	16QAM	23095	50RB#0	0.009~0.15	-48.74	PASS
Band12	10MHz	16QAM	23095	50RB#0	0.15~30	-58.03	PASS
Band12	10MHz	16QAM	23095	50RB#0	30~1000	-66.67	PASS
Band12	10MHz	16QAM	23095	50RB#0	1000~3000	-52.77	PASS
Band12	10MHz	16QAM	23095	50RB#0	3000~10000	-49.95	PASS
Band12	10MHz	16QAM	23130	50RB#0	0.009~0.15	-50.84	PASS
Band12	10MHz	16QAM	23130	50RB#0	0.15~30	-60.26	PASS
Band12	10MHz	16QAM	23130	50RB#0	30~1000	-66.33	PASS
Band12	10MHz	16QAM	23130	50RB#0	1000~3000	-52.64	PASS
Band12	10MHz	16QAM	23130	50RB#0	3000~10000	-49.91	PASS

Test Graphs

