

FCC Appendix RF Test Data for LTE Band 5

FCC ID : 2BVMZ-Q153

Company : Shenzhen Yingtuo Intelligent Technology Co., Ltd

EUT : 4G kids smart watch

Model Number : Q153

Report No. : CTA26040900605

Reviewed By : Eric Wang

Appendix A: Effective (Isotropic) Radiated Power Output Data

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band5	3MHz	QPSK	20415	1RB#0	24.25	PASS
Band5	3MHz	16QAM	20415	1RB#0	23.12	PASS
Band5	3MHz	QPSK	20415	1RB#8	24.50	PASS
Band5	3MHz	16QAM	20415	1RB#8	23.43	PASS
Band5	3MHz	QPSK	20415	1RB#14	24.28	PASS
Band5	3MHz	16QAM	20415	1RB#14	23.28	PASS
Band5	3MHz	QPSK	20415	8RB#0	23.52	PASS
Band5	3MHz	16QAM	20415	8RB#0	22.29	PASS
Band5	3MHz	QPSK	20415	8RB#4	23.57	PASS
Band5	3MHz	16QAM	20415	8RB#4	22.61	PASS
Band5	3MHz	QPSK	20415	8RB#7	23.47	PASS
Band5	3MHz	16QAM	20415	8RB#7	22.66	PASS
Band5	3MHz	QPSK	20415	15RB#0	23.57	PASS
Band5	3MHz	16QAM	20415	15RB#0	22.50	PASS
Band5	3MHz	QPSK	20525	1RB#0	24.46	PASS
Band5	3MHz	16QAM	20525	1RB#0	24.20	PASS
Band5	3MHz	QPSK	20525	1RB#8	24.50	PASS
Band5	3MHz	16QAM	20525	1RB#8	23.36	PASS
Band5	3MHz	QPSK	20525	1RB#14	24.50	PASS
Band5	3MHz	16QAM	20525	1RB#14	24.03	PASS
Band5	3MHz	QPSK	20525	8RB#0	23.62	PASS
Band5	3MHz	16QAM	20525	8RB#0	22.48	PASS
Band5	3MHz	QPSK	20525	8RB#4	23.51	PASS
Band5	3MHz	16QAM	20525	8RB#4	22.45	PASS
Band5	3MHz	QPSK	20525	8RB#7	23.59	PASS
Band5	3MHz	16QAM	20525	8RB#7	22.41	PASS
Band5	3MHz	QPSK	20525	15RB#0	23.57	PASS
Band5	3MHz	16QAM	20525	15RB#0	22.40	PASS
Band5	3MHz	QPSK	20635	1RB#0	24.17	PASS
Band5	3MHz	16QAM	20635	1RB#0	23.40	PASS
Band5	3MHz	QPSK	20635	1RB#8	24.34	PASS
Band5	3MHz	16QAM	20635	1RB#8	23.58	PASS
Band5	3MHz	QPSK	20635	1RB#14	24.14	PASS
Band5	3MHz	16QAM	20635	1RB#14	23.33	PASS
Band5	3MHz	QPSK	20635	8RB#0	23.44	PASS
Band5	3MHz	16QAM	20635	8RB#0	22.50	PASS
Band5	3MHz	QPSK	20635	8RB#4	23.37	PASS

Band5	3MHz	16QAM	20635	8RB#4	22.17	PASS
Band5	3MHz	QPSK	20635	8RB#7	23.38	PASS
Band5	3MHz	16QAM	20635	8RB#7	22.59	PASS
Band5	3MHz	QPSK	20635	15RB#0	23.43	PASS
Band5	3MHz	16QAM	20635	15RB#0	22.49	PASS

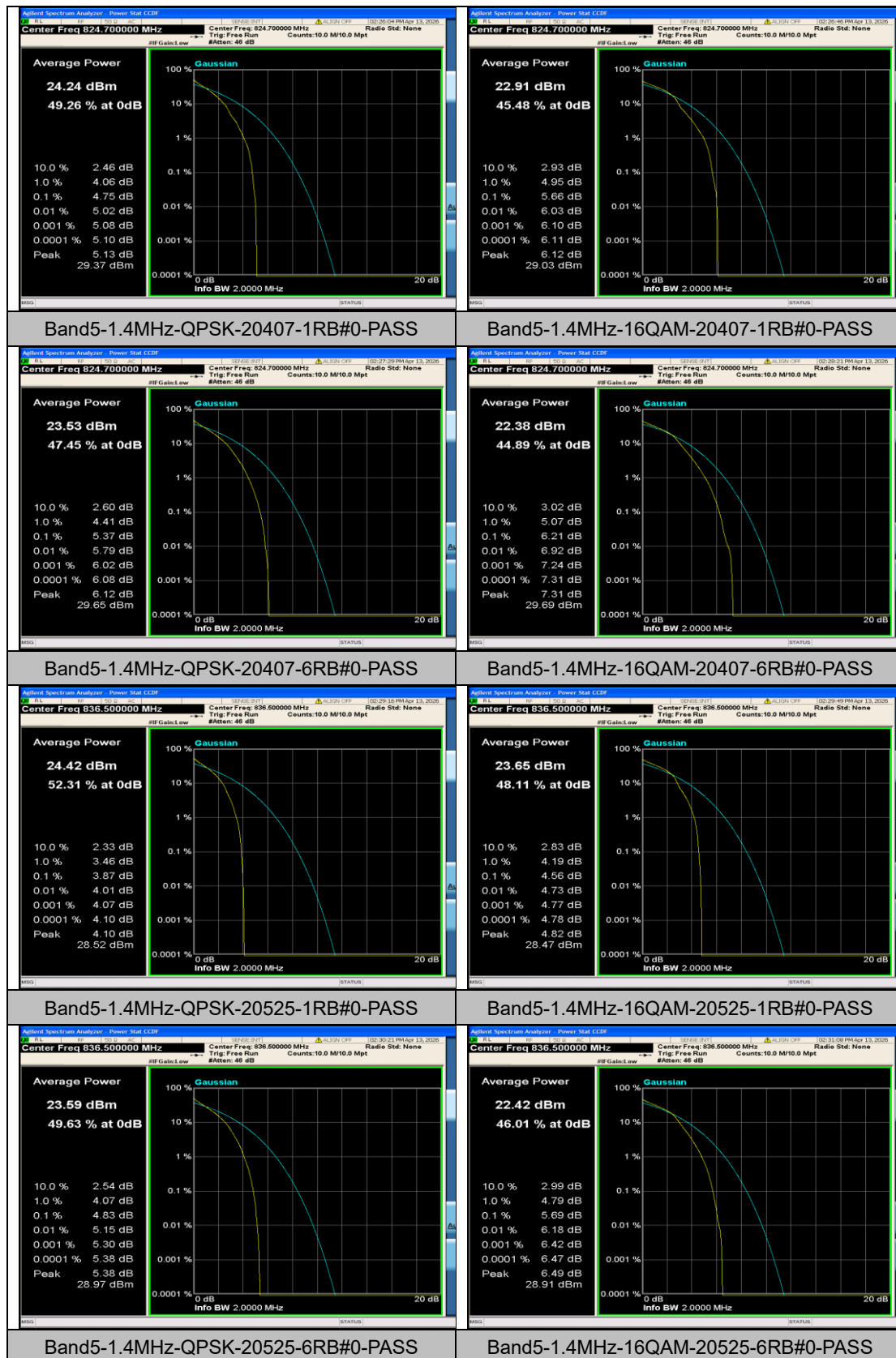
Appendix B: Peak-to-Average Ratio(CCDF)

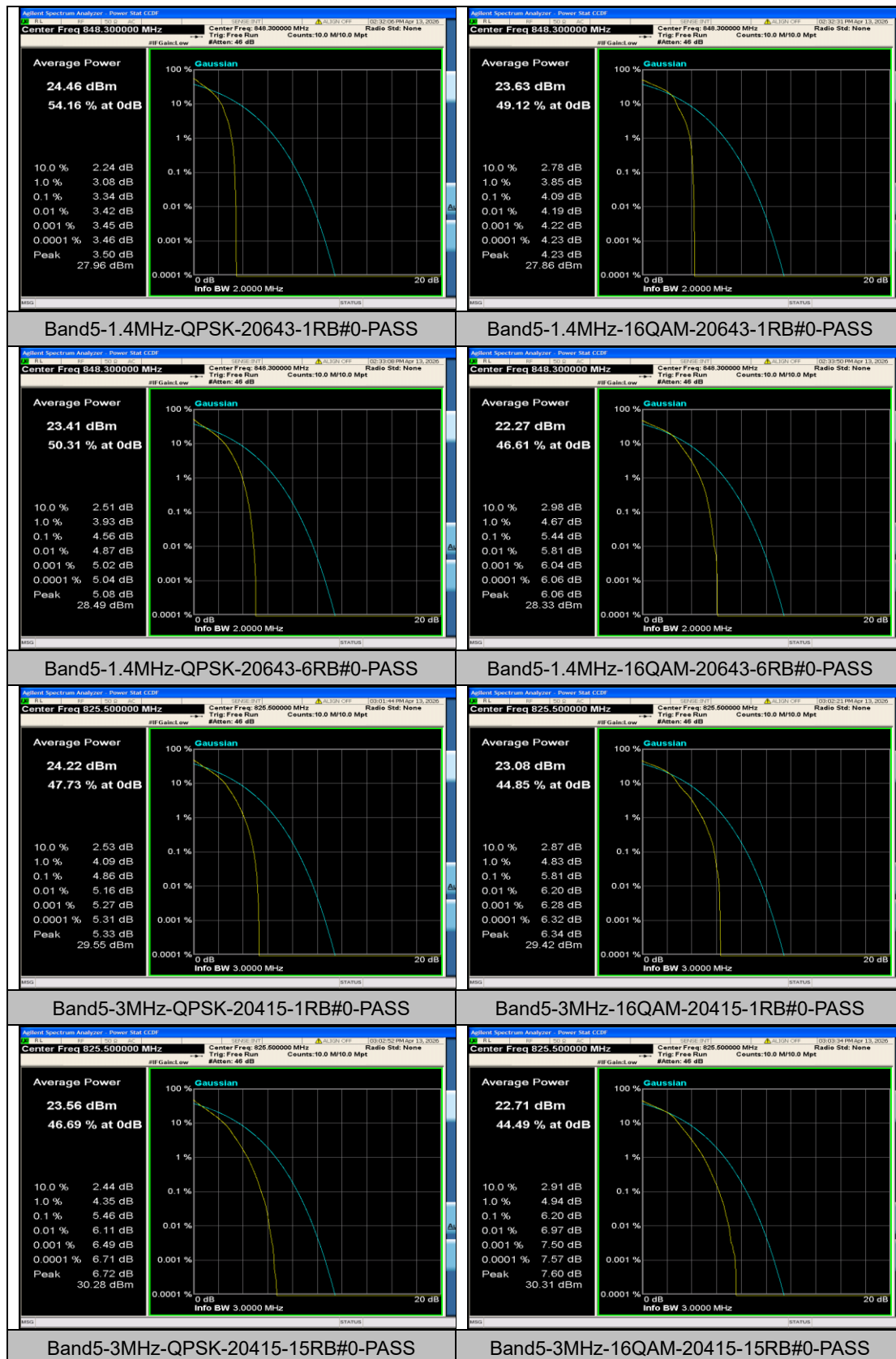
Test Result

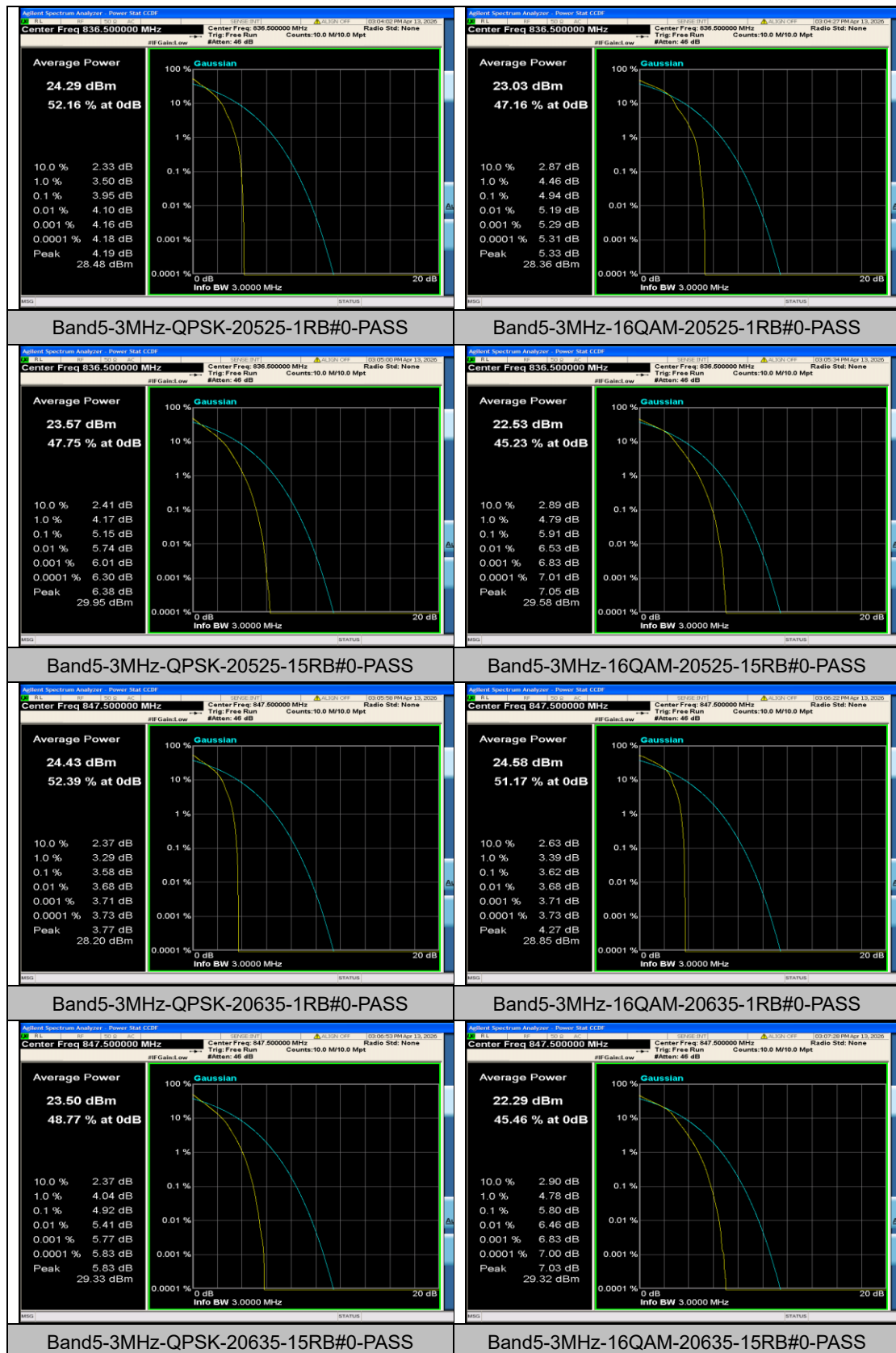
Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band5	1.4MHz	QPSK	20407	1RB#0	4.75	13	PASS
Band5	1.4MHz	16QAM	20407	1RB#0	5.66	13	PASS
Band5	1.4MHz	QPSK	20407	6RB#0	5.37	13	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	6.21	13	PASS
Band5	1.4MHz	QPSK	20525	1RB#0	3.87	13	PASS
Band5	1.4MHz	16QAM	20525	1RB#0	4.56	13	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	4.83	13	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	5.69	13	PASS
Band5	1.4MHz	QPSK	20643	1RB#0	3.34	13	PASS
Band5	1.4MHz	16QAM	20643	1RB#0	4.09	13	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	4.56	13	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	5.44	13	PASS
Band5	3MHz	QPSK	20415	1RB#0	4.86	13	PASS
Band5	3MHz	16QAM	20415	1RB#0	5.81	13	PASS
Band5	3MHz	QPSK	20415	15RB#0	5.46	13	PASS
Band5	3MHz	16QAM	20415	15RB#0	6.20	13	PASS
Band5	3MHz	QPSK	20525	1RB#0	3.95	13	PASS
Band5	3MHz	16QAM	20525	1RB#0	4.94	13	PASS
Band5	3MHz	QPSK	20525	15RB#0	5.15	13	PASS
Band5	3MHz	16QAM	20525	15RB#0	5.91	13	PASS
Band5	3MHz	QPSK	20635	1RB#0	3.58	13	PASS
Band5	3MHz	16QAM	20635	1RB#0	3.62	13	PASS
Band5	3MHz	QPSK	20635	15RB#0	4.92	13	PASS
Band5	3MHz	16QAM	20635	15RB#0	5.80	13	PASS
Band5	5MHz	QPSK	20425	1RB#0	4.83	13	PASS
Band5	5MHz	16QAM	20425	1RB#0	5.67	13	PASS
Band5	5MHz	QPSK	20425	25RB#0	5.43	13	PASS
Band5	5MHz	16QAM	20425	25RB#0	6.14	13	PASS
Band5	5MHz	QPSK	20525	1RB#0	3.79	13	PASS
Band5	5MHz	16QAM	20525	1RB#0	4.66	13	PASS
Band5	5MHz	QPSK	20525	25RB#0	5.07	13	PASS
Band5	5MHz	16QAM	20525	25RB#0	5.80	13	PASS
Band5	5MHz	QPSK	20625	1RB#0	3.95	13	PASS
Band5	5MHz	16QAM	20625	1RB#0	4.84	13	PASS
Band5	5MHz	QPSK	20625	25RB#0	5.01	13	PASS
Band5	5MHz	16QAM	20625	25RB#0	5.77	13	PASS

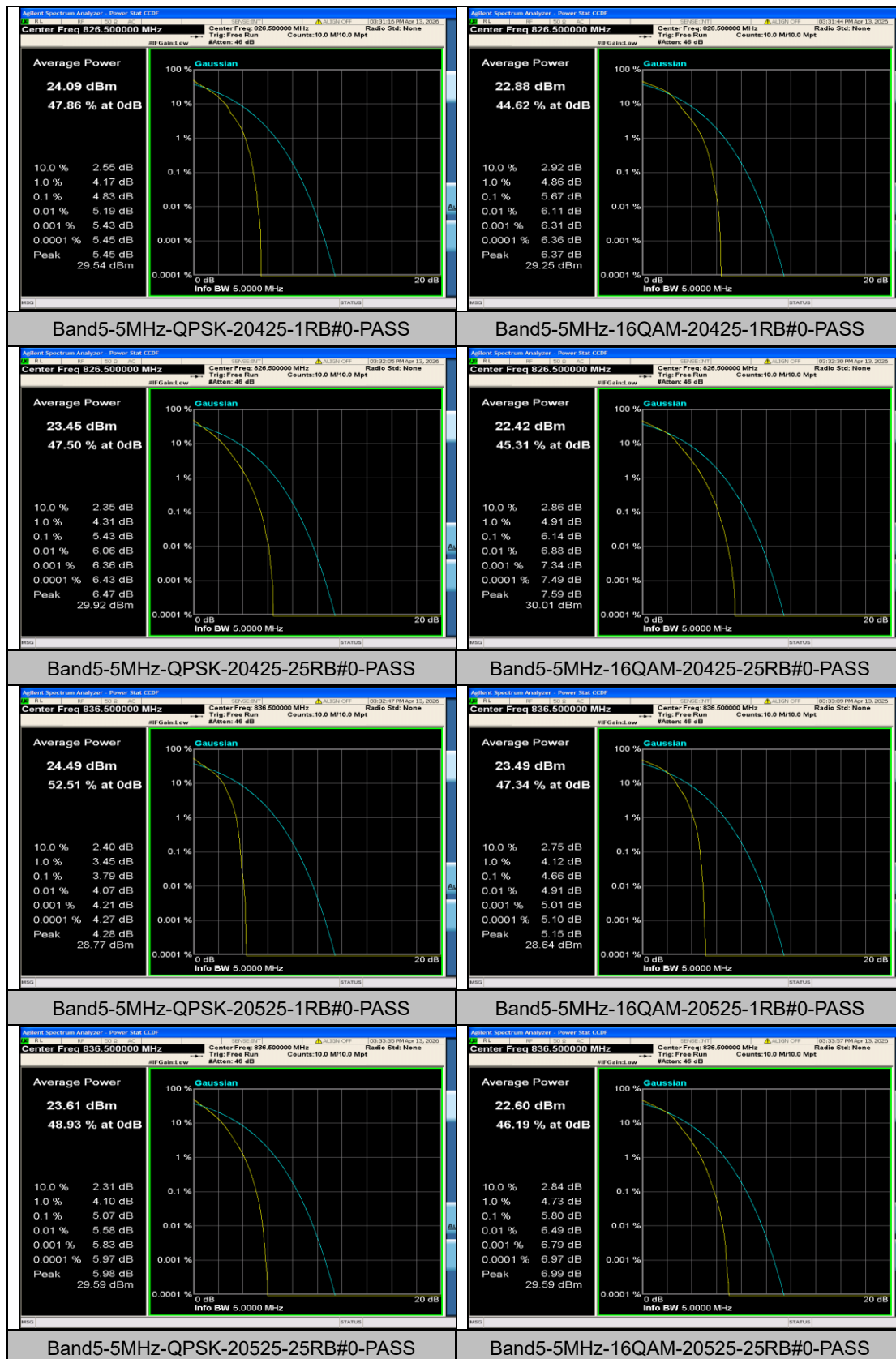
Band5	10MHz	QPSK	20450	1RB#0	4.72	13	PASS
Band5	10MHz	16QAM	20450	1RB#0	5.05	13	PASS
Band5	10MHz	QPSK	20525	1RB#0	4.03	13	PASS
Band5	10MHz	16QAM	20525	1RB#0	4.81	13	PASS
Band5	10MHz	QPSK	20600	1RB#0	3.84	13	PASS
Band5	10MHz	16QAM	20600	1RB#0	4.50	13	PASS
Band5	10MHz	QPSK	20450	50RB#0	5.24	13	PASS
Band5	10MHz	QPSK	20525	50RB#0	5.20	13	PASS
Band5	10MHz	QPSK	20600	50RB#0	5.18	13	PASS

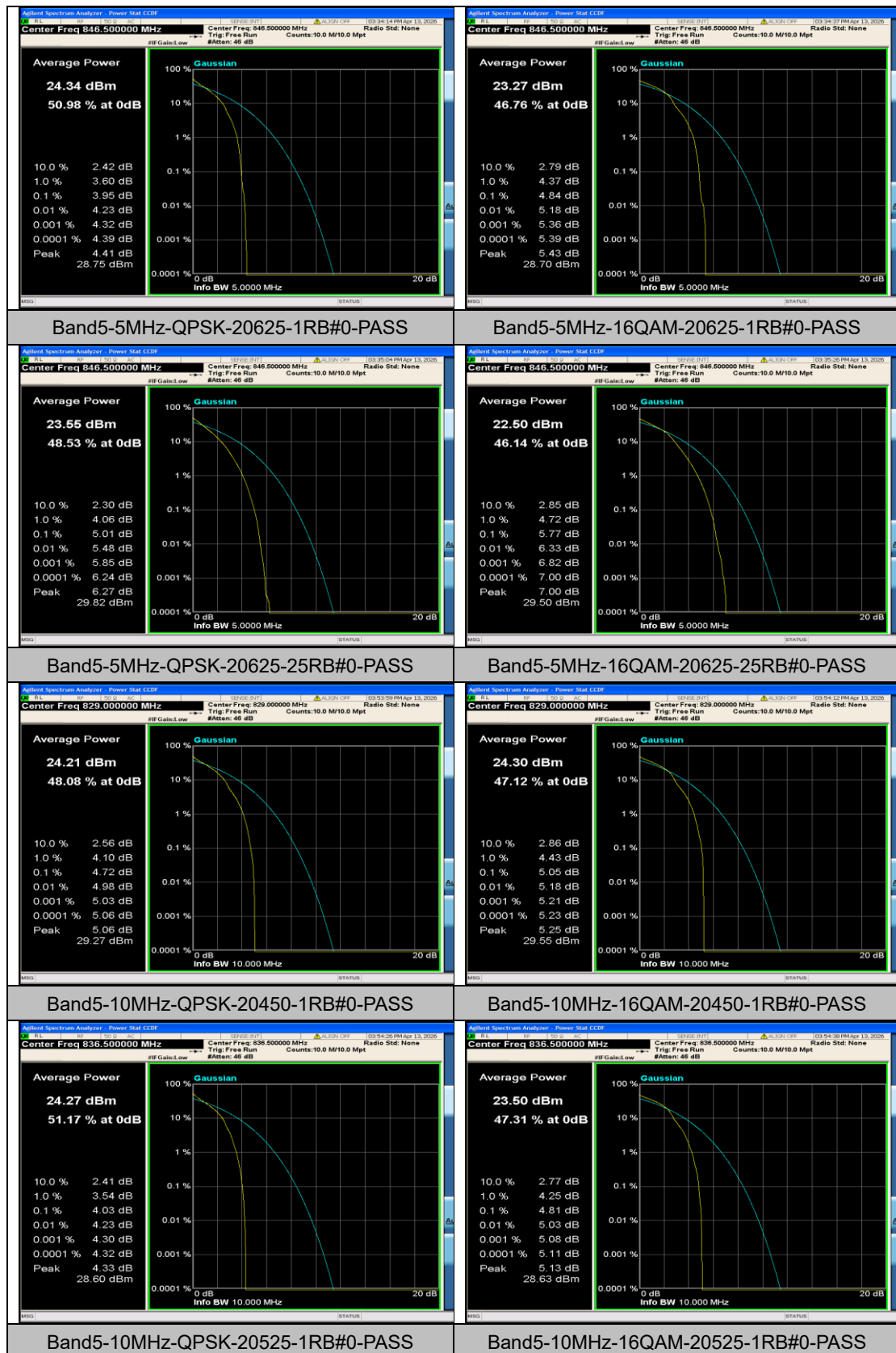
Test Graphs

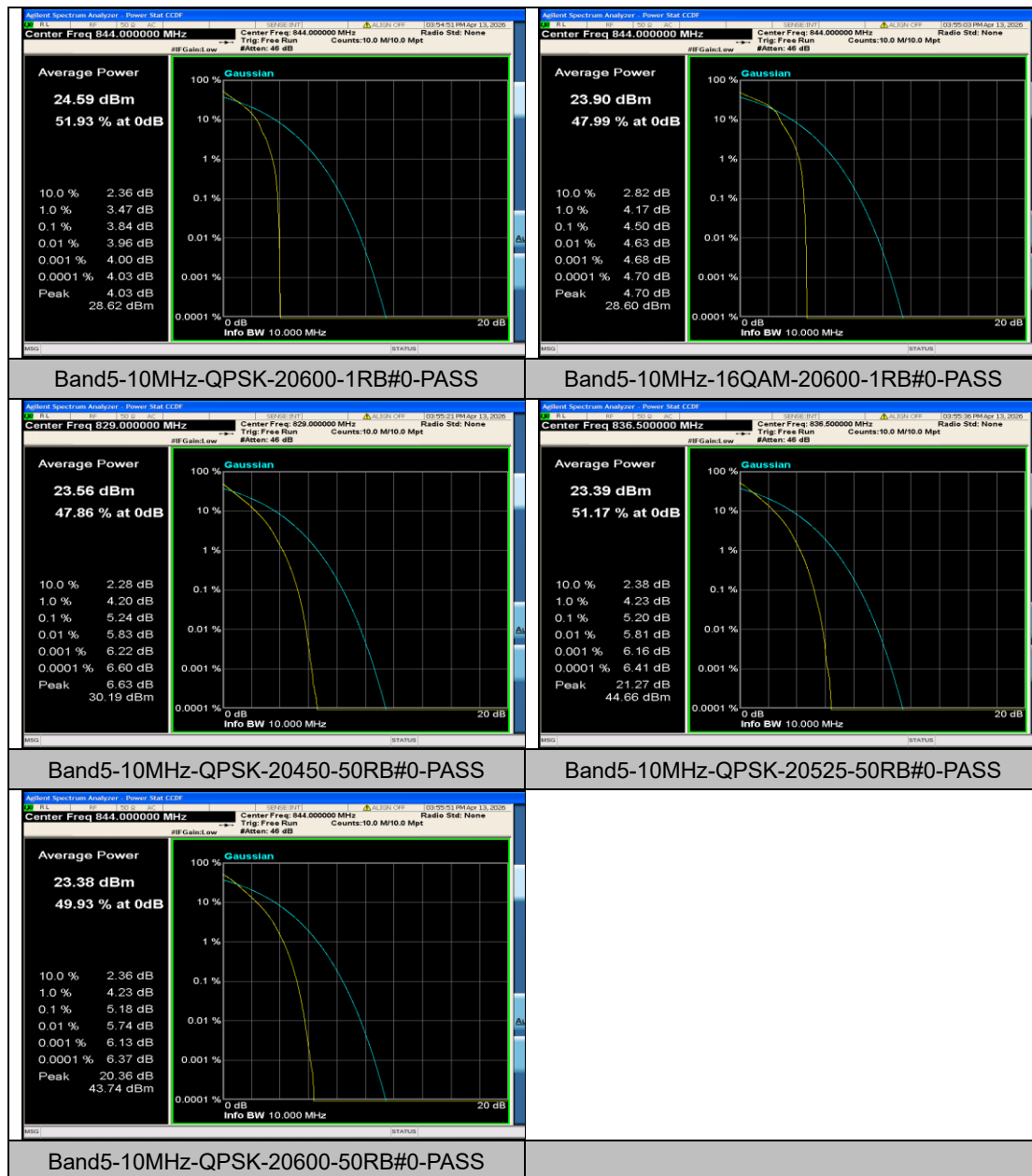










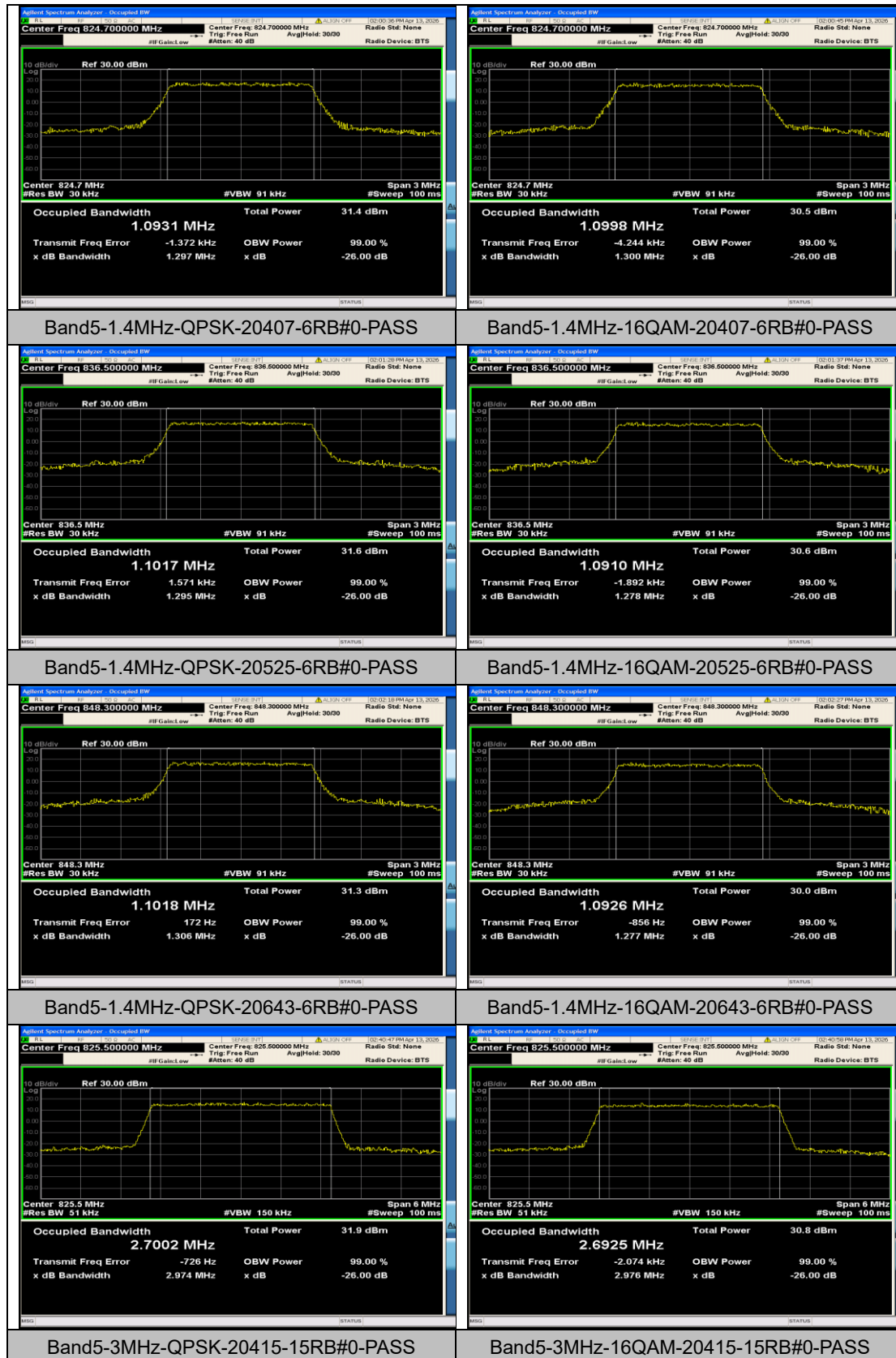


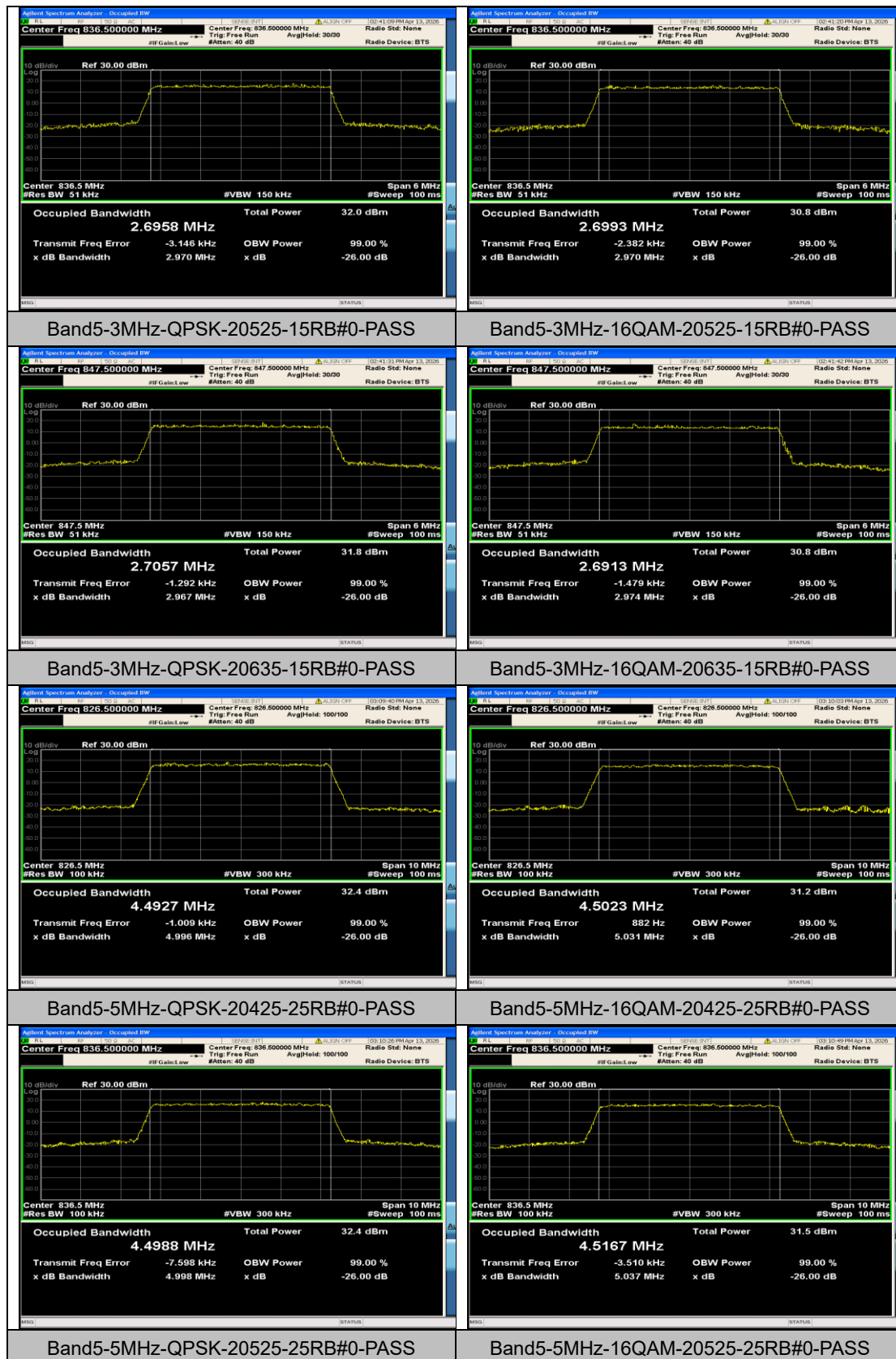
Appendix C: 26dB Bandwidth and Occupied Bandwidth

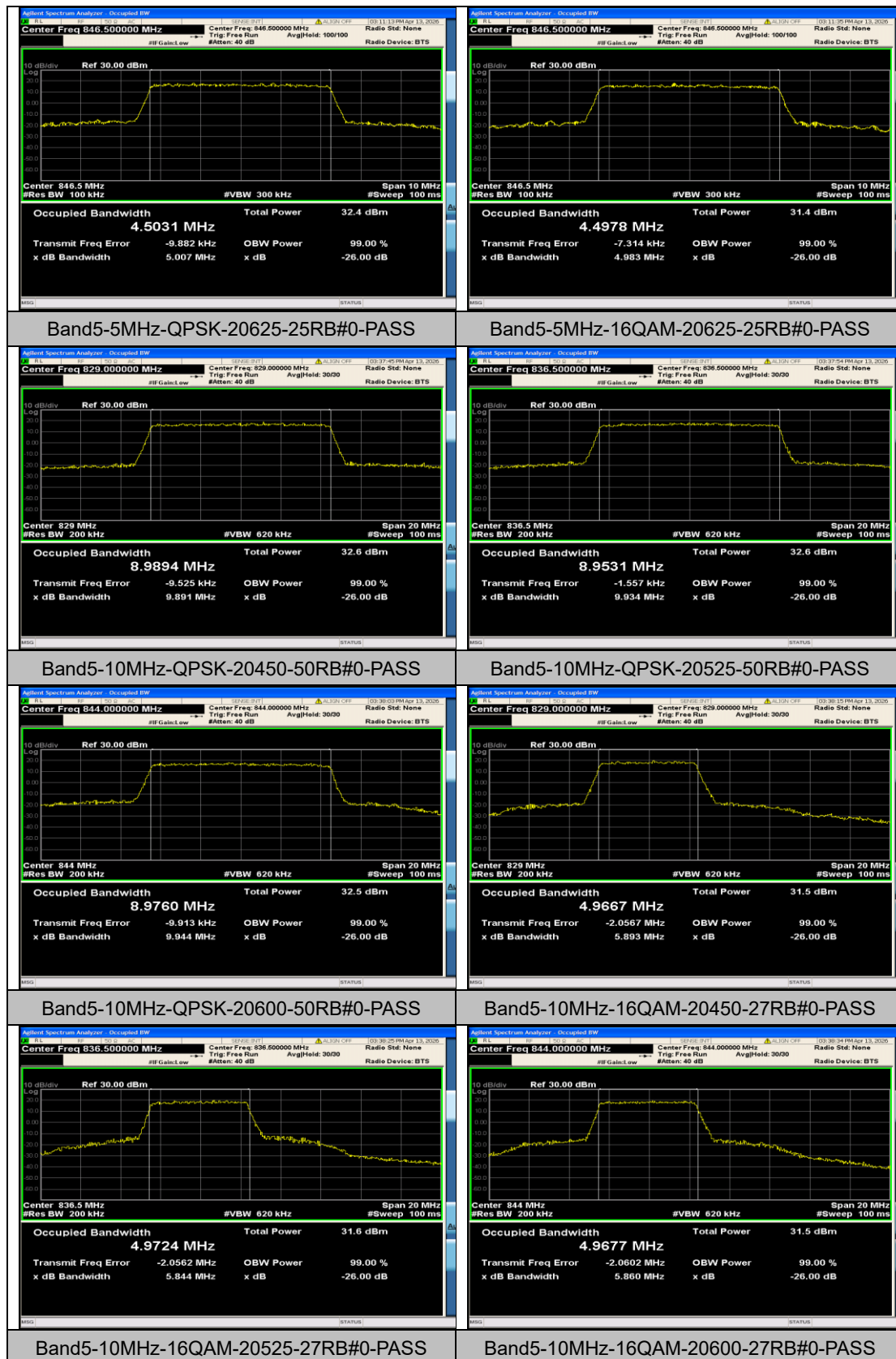
Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band5	1.4MHz	QPSK	20407	6RB#0	1.0931	1.297	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	1.0998	1.300	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	1.1017	1.295	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	1.0910	1.278	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	1.1018	1.306	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	1.0926	1.277	PASS
Band5	3MHz	QPSK	20415	15RB#0	2.7002	2.974	PASS
Band5	3MHz	16QAM	20415	15RB#0	2.6925	2.976	PASS
Band5	3MHz	QPSK	20525	15RB#0	2.6958	2.970	PASS
Band5	3MHz	16QAM	20525	15RB#0	2.6993	2.970	PASS
Band5	3MHz	QPSK	20635	15RB#0	2.7057	2.967	PASS
Band5	3MHz	16QAM	20635	15RB#0	2.6913	2.974	PASS
Band5	5MHz	QPSK	20425	25RB#0	4.4927	4.996	PASS
Band5	5MHz	16QAM	20425	25RB#0	4.5023	5.031	PASS
Band5	5MHz	QPSK	20525	25RB#0	4.4988	4.998	PASS
Band5	5MHz	16QAM	20525	25RB#0	4.5167	5.037	PASS
Band5	5MHz	QPSK	20625	25RB#0	4.5031	5.007	PASS
Band5	5MHz	16QAM	20625	25RB#0	4.4978	4.983	PASS
Band5	10MHz	QPSK	20450	50RB#0	8.9894	9.891	PASS
Band5	10MHz	QPSK	20525	50RB#0	8.9531	9.934	PASS
Band5	10MHz	QPSK	20600	50RB#0	8.9760	9.944	PASS
Band5	10MHz	16QAM	20450	27RB#0	4.9667	5.893	PASS
Band5	10MHz	16QAM	20525	27RB#0	4.9724	5.844	PASS
Band5	10MHz	16QAM	20600	27RB#0	4.9677	5.860	PASS

Test Graphs







Appendix D: Band Edge

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band5	1.4MHz	QPSK	20407	1RB#0	-25.75	PASS
Band5	1.4MHz	16QAM	20407	1RB#0	-32.88	PASS
Band5	1.4MHz	QPSK	20407	1RB#5	-45.14	PASS
Band5	1.4MHz	16QAM	20407	1RB#5	-46.68	PASS
Band5	1.4MHz	QPSK	20407	6RB#0	-29.94	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	-28.70	PASS
Band5	1.4MHz	QPSK	20643	1RB#0	-42.06	PASS
Band5	1.4MHz	16QAM	20643	1RB#0	-43.05	PASS
Band5	1.4MHz	QPSK	20643	1RB#5	-18.01	PASS
Band5	1.4MHz	16QAM	20643	1RB#5	-24.17	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	-24.35	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	-27.83	PASS
Band5	3MHz	QPSK	20415	1RB#0	-24.04	PASS
Band5	3MHz	16QAM	20415	1RB#0	-25.76	PASS
Band5	3MHz	QPSK	20415	1RB#14	-45.53	PASS
Band5	3MHz	16QAM	20415	1RB#14	-46.07	PASS
Band5	3MHz	QPSK	20415	15RB#0	-30.51	PASS
Band5	3MHz	16QAM	20415	15RB#0	-30.94	PASS
Band5	3MHz	QPSK	20635	1RB#0	-46.61	PASS
Band5	3MHz	16QAM	20635	1RB#0	-46.76	PASS
Band5	3MHz	QPSK	20635	1RB#14	-21.73	PASS
Band5	3MHz	16QAM	20635	1RB#14	-21.38	PASS
Band5	3MHz	QPSK	20635	15RB#0	-29.17	PASS
Band5	3MHz	16QAM	20635	15RB#0	-30.13	PASS
Band5	5MHz	QPSK	20425	1RB#0	-28.94	PASS
Band5	5MHz	16QAM	20425	1RB#0	-30.10	PASS
Band5	5MHz	QPSK	20425	1RB#24	-55.03	PASS
Band5	5MHz	16QAM	20425	1RB#24	-56.02	PASS
Band5	5MHz	QPSK	20425	25RB#0	-32.95	PASS
Band5	5MHz	16QAM	20425	25RB#0	-33.26	PASS
Band5	5MHz	QPSK	20625	1RB#0	-55.49	PASS
Band5	5MHz	16QAM	20625	1RB#0	-55.66	PASS
Band5	5MHz	QPSK	20625	1RB#24	-28.24	PASS
Band5	5MHz	16QAM	20625	1RB#24	-28.90	PASS
Band5	5MHz	QPSK	20625	25RB#0	-30.65	PASS
Band5	5MHz	16QAM	20625	25RB#0	-32.71	PASS
Band5	10MHz	QPSK	20450	1RB#0	-39.14	PASS

Band5	10MHz	16QAM	20450	1RB#0	-40.00	PASS
Band5	10MHz	QPSK	20450	1RB#49	-54.80	PASS
Band5	10MHz	16QAM	20450	1RB#49	-55.05	PASS
Band5	10MHz	QPSK	20600	1RB#0	-54.70	PASS
Band5	10MHz	16QAM	20600	1RB#0	-55.12	PASS
Band5	10MHz	QPSK	20600	1RB#49	-38.16	PASS
Band5	10MHz	16QAM	20600	1RB#49	-39.11	PASS
Band5	10MHz	QPSK	20450	50RB#0	-34.01	PASS
Band5	10MHz	QPSK	20600	50RB#0	-35.02	PASS

Test Graphs

