

FCC Appendix RF Test Data for LTE Band 2

FCC ID : 2BWWK-F63

Company : ShenZhen ArBolo Technology Co., Ltd.

EUT : GPS Tracker

Model Number : F63

Report No. : CTA26061700801

Reviewed By : Eric Wang

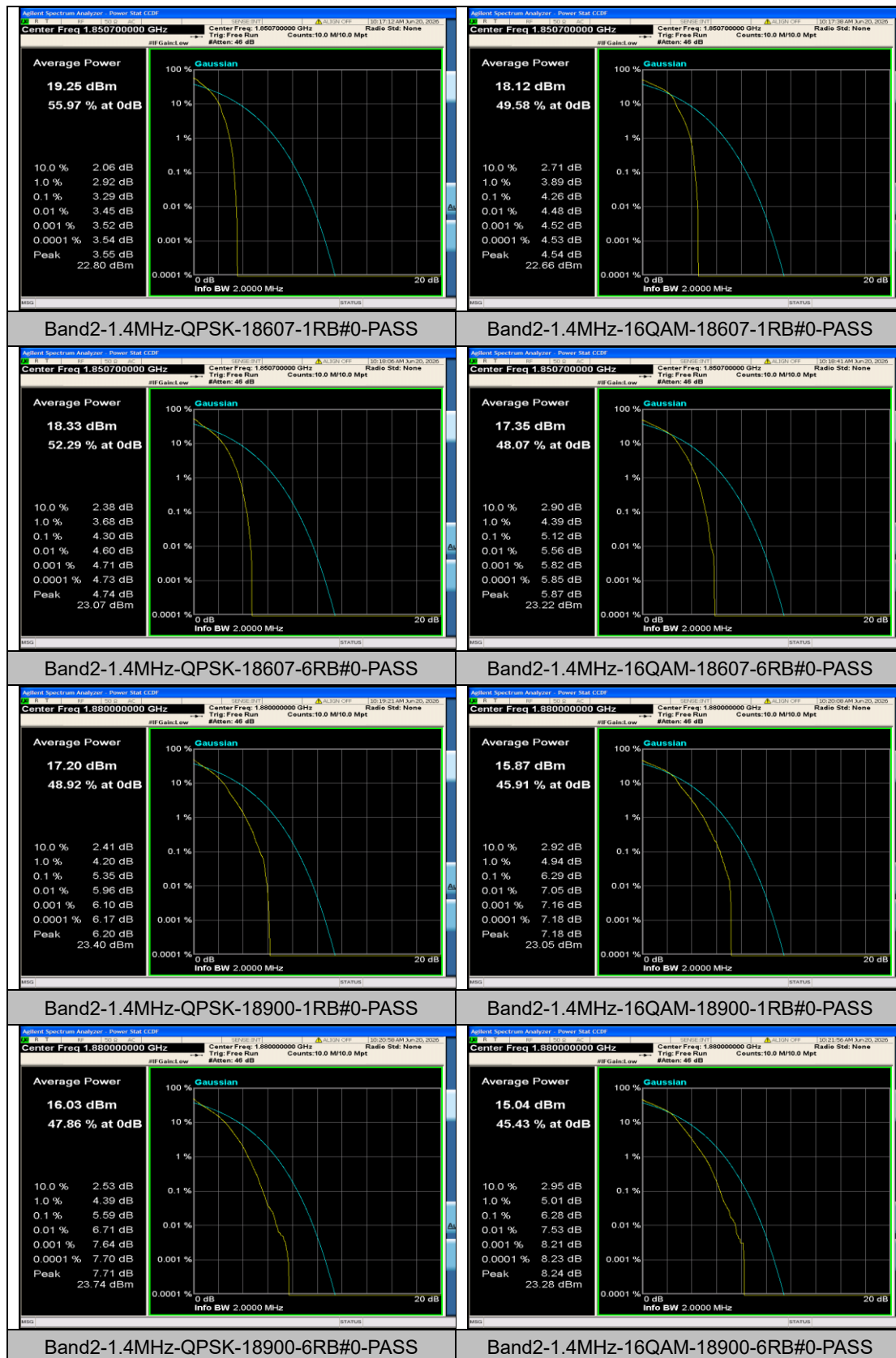
Appendix B: Peak-to-Average Ratio(CCDF)

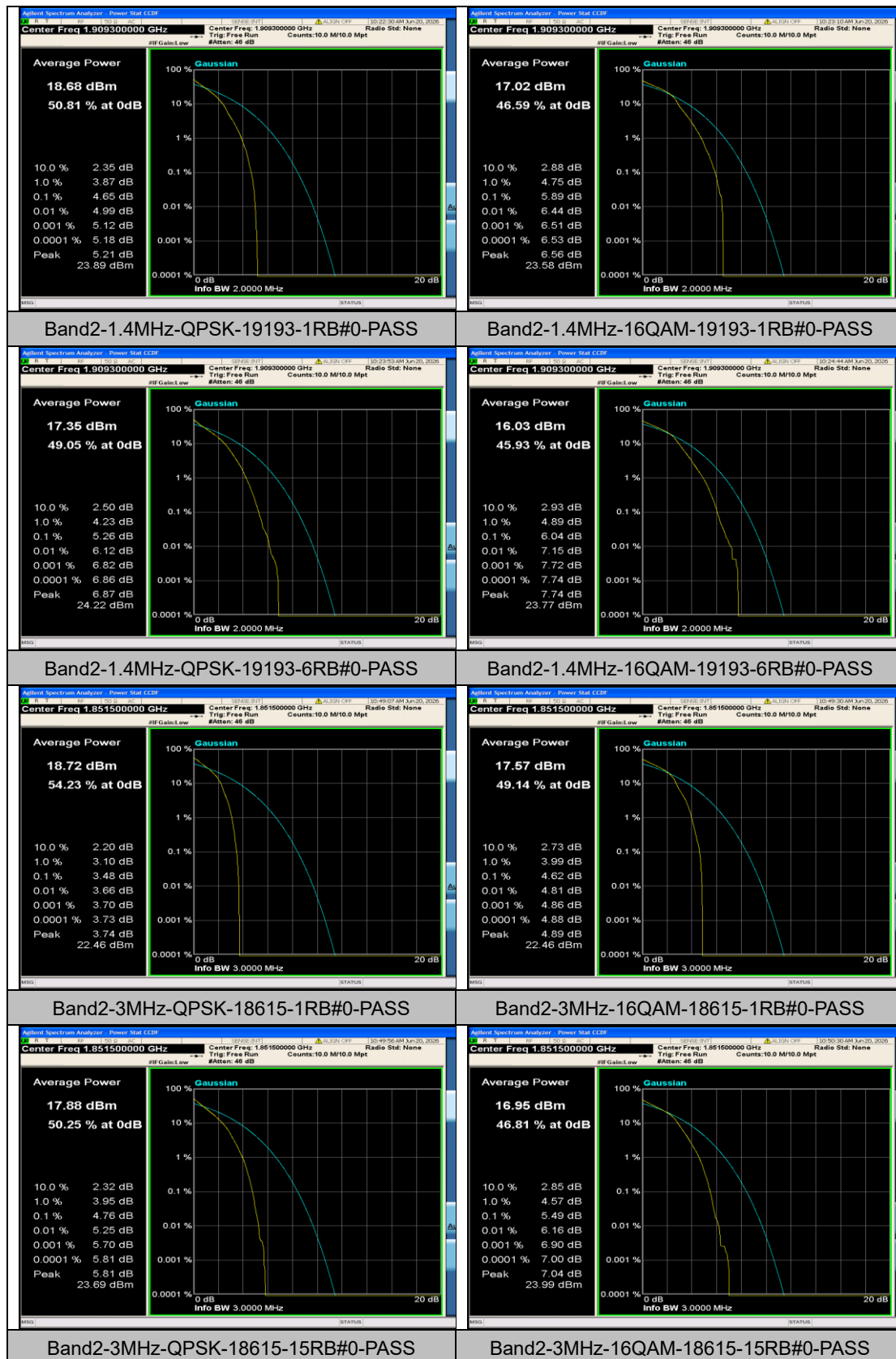
Test Result

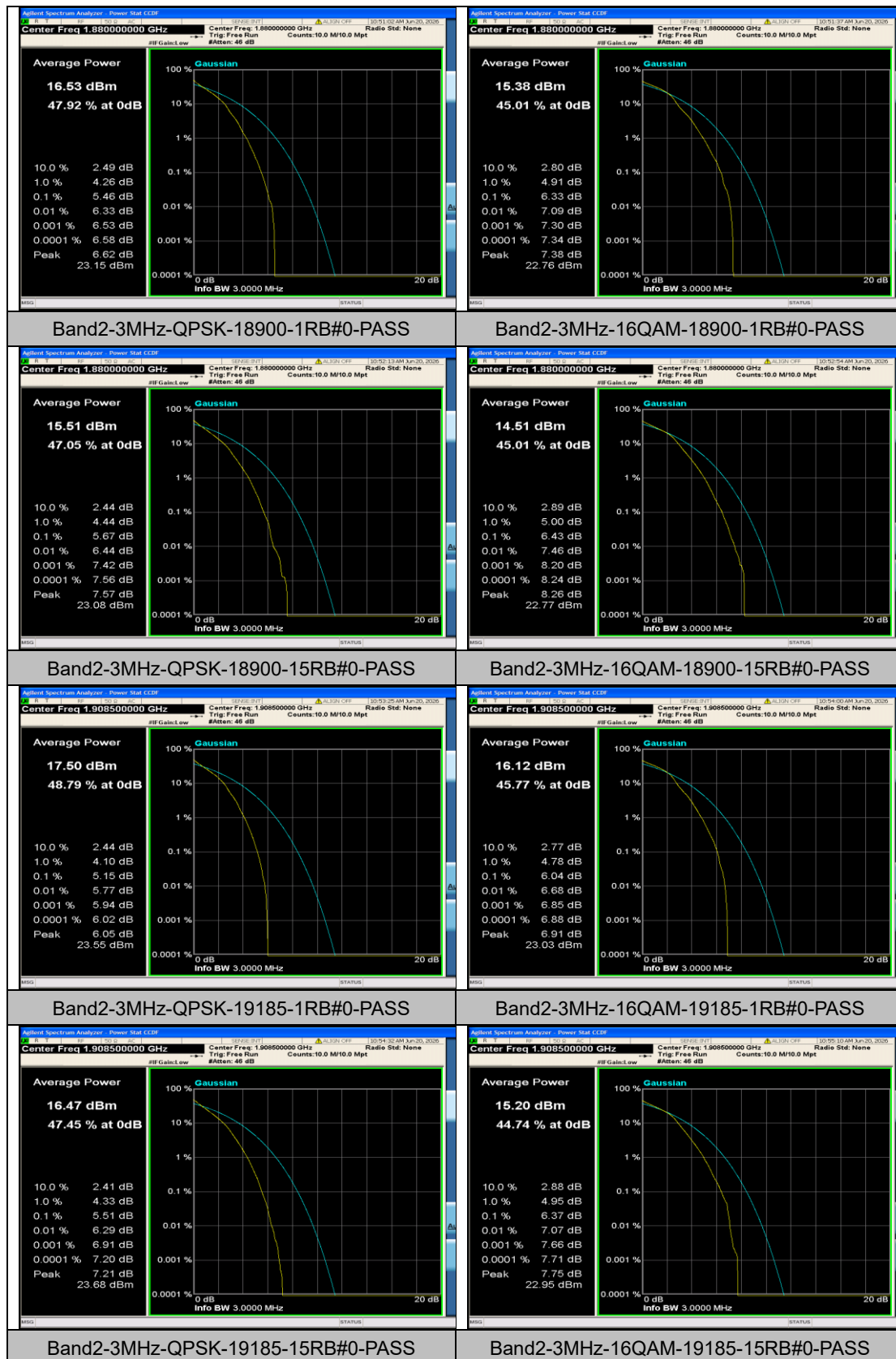
Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band2	1.4MHz	QPSK	18607	1RB#0	3.29	13	PASS
Band2	1.4MHz	16QAM	18607	1RB#0	4.26	13	PASS
Band2	1.4MHz	QPSK	18607	6RB#0	4.30	13	PASS
Band2	1.4MHz	16QAM	18607	6RB#0	5.12	13	PASS
Band2	1.4MHz	QPSK	18900	1RB#0	5.35	13	PASS
Band2	1.4MHz	16QAM	18900	1RB#0	6.29	13	PASS
Band2	1.4MHz	QPSK	18900	6RB#0	5.59	13	PASS
Band2	1.4MHz	16QAM	18900	6RB#0	6.28	13	PASS
Band2	1.4MHz	QPSK	19193	1RB#0	4.65	13	PASS
Band2	1.4MHz	16QAM	19193	1RB#0	5.89	13	PASS
Band2	1.4MHz	QPSK	19193	6RB#0	5.26	13	PASS
Band2	1.4MHz	16QAM	19193	6RB#0	6.04	13	PASS
Band2	3MHz	QPSK	18615	1RB#0	3.48	13	PASS
Band2	3MHz	16QAM	18615	1RB#0	4.62	13	PASS
Band2	3MHz	QPSK	18615	15RB#0	4.76	13	PASS
Band2	3MHz	16QAM	18615	15RB#0	5.49	13	PASS
Band2	3MHz	QPSK	18900	1RB#0	5.46	13	PASS
Band2	3MHz	16QAM	18900	1RB#0	6.33	13	PASS
Band2	3MHz	QPSK	18900	15RB#0	5.67	13	PASS
Band2	3MHz	16QAM	18900	15RB#0	6.43	13	PASS
Band2	3MHz	QPSK	19185	1RB#0	5.15	13	PASS
Band2	3MHz	16QAM	19185	1RB#0	6.04	13	PASS
Band2	3MHz	QPSK	19185	15RB#0	5.51	13	PASS
Band2	3MHz	16QAM	19185	15RB#0	6.37	13	PASS
Band2	5MHz	QPSK	18625	1RB#0	3.40	13	PASS
Band2	5MHz	16QAM	18625	1RB#0	4.26	13	PASS
Band2	5MHz	QPSK	18625	25RB#0	4.75	13	PASS
Band2	5MHz	16QAM	18625	25RB#0	5.40	13	PASS
Band2	5MHz	QPSK	18900	1RB#0	5.55	13	PASS
Band2	5MHz	16QAM	18900	1RB#0	5.85	13	PASS
Band2	5MHz	QPSK	18900	25RB#0	5.69	13	PASS
Band2	5MHz	16QAM	18900	25RB#0	6.28	13	PASS
Band2	5MHz	QPSK	19175	1RB#0	5.01	13	PASS
Band2	5MHz	16QAM	19175	1RB#0	5.61	13	PASS
Band2	5MHz	QPSK	19175	25RB#0	5.60	13	PASS
Band2	5MHz	16QAM	19175	25RB#0	6.25	13	PASS

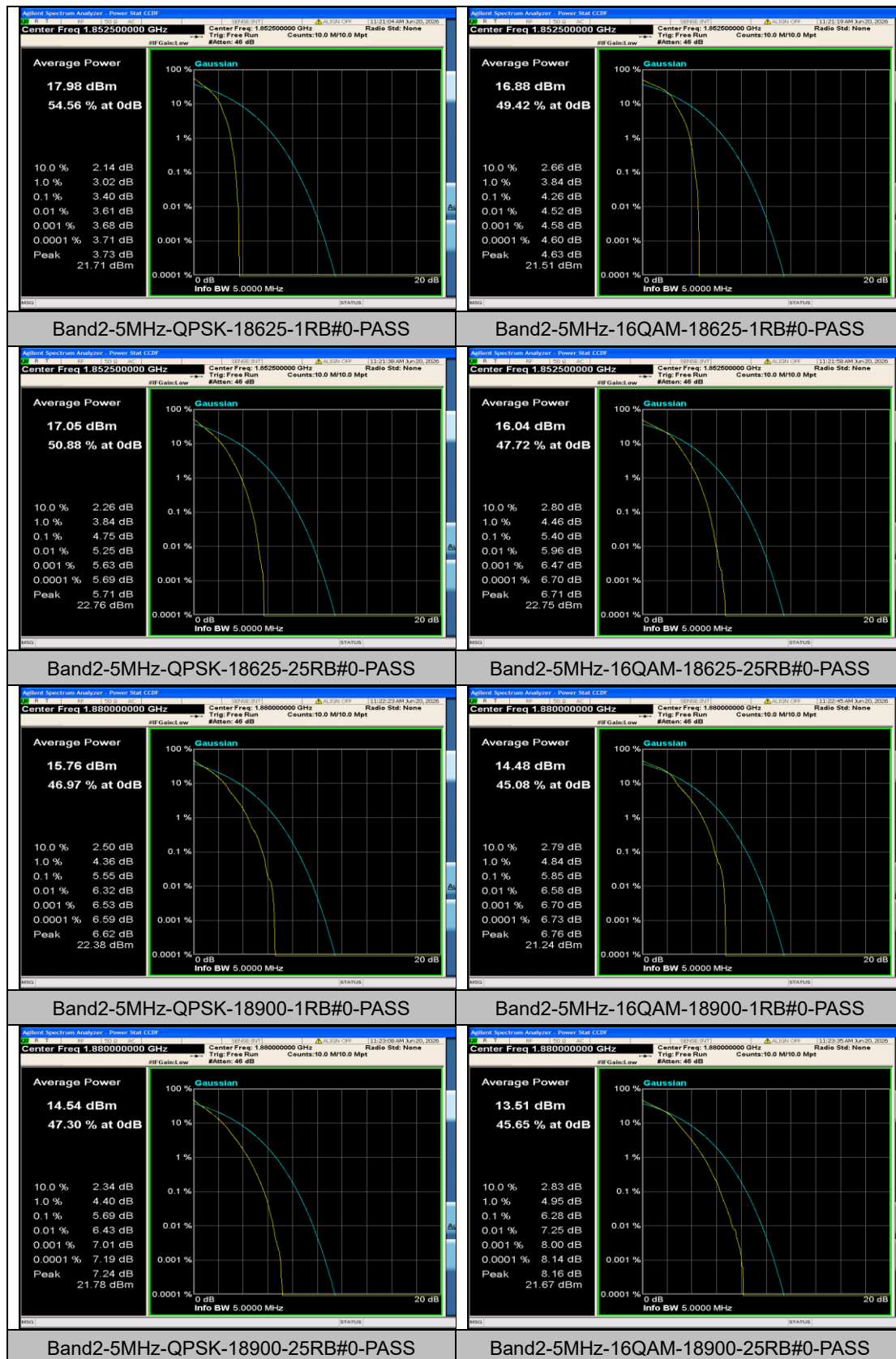
Band2	10MHz	QPSK	18650	1RB#0	4.42	13	PASS
Band2	10MHz	16QAM	18650	1RB#0	5.23	13	PASS
Band2	10MHz	QPSK	18900	1RB#0	4.68	13	PASS
Band2	10MHz	16QAM	18900	1RB#0	5.53	13	PASS
Band2	10MHz	QPSK	19150	1RB#0	4.64	13	PASS
Band2	10MHz	16QAM	19150	1RB#0	5.52	13	PASS
Band2	10MHz	QPSK	18650	50RB#0	5.09	13	PASS
Band2	10MHz	QPSK	18900	50RB#0	5.48	13	PASS
Band2	10MHz	QPSK	19150	50RB#0	5.55	13	PASS
Band2	15MHz	QPSK	18675	1RB#0	4.45	13	PASS
Band2	15MHz	16QAM	18675	1RB#0	5.23	13	PASS
Band2	15MHz	QPSK	18900	1RB#0	4.70	13	PASS
Band2	15MHz	16QAM	18900	1RB#0	5.56	13	PASS
Band2	15MHz	QPSK	19125	1RB#0	4.49	13	PASS
Band2	15MHz	16QAM	19125	1RB#0	5.38	13	PASS
Band2	15MHz	QPSK	18675	75RB#0	5.23	13	PASS
Band2	15MHz	QPSK	18900	75RB#0	5.82	13	PASS
Band2	15MHz	QPSK	19125	75RB#0	5.83	13	PASS
Band2	20MHz	QPSK	18700	1RB#0	4.30	13	PASS
Band2	20MHz	QPSK	18900	1RB#0	4.96	13	PASS
Band2	20MHz	QPSK	19100	1RB#0	4.58	13	PASS
Band2	20MHz	QPSK	18700	100RB#0	5.09	13	PASS
Band2	20MHz	QPSK	18900	100RB#0	5.59	13	PASS
Band2	20MHz	QPSK	19100	100RB#0	5.79	13	PASS

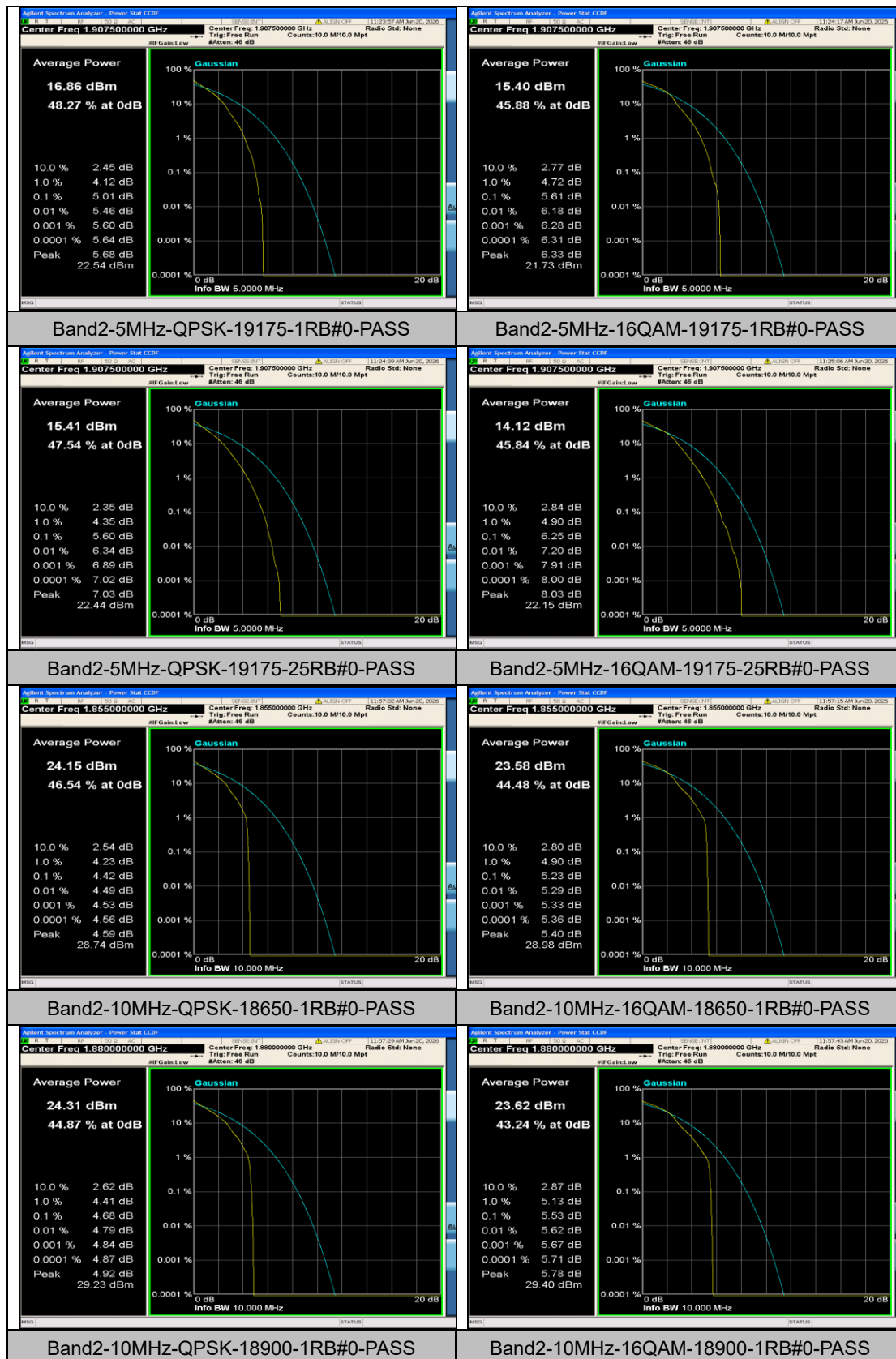
Test Graphs

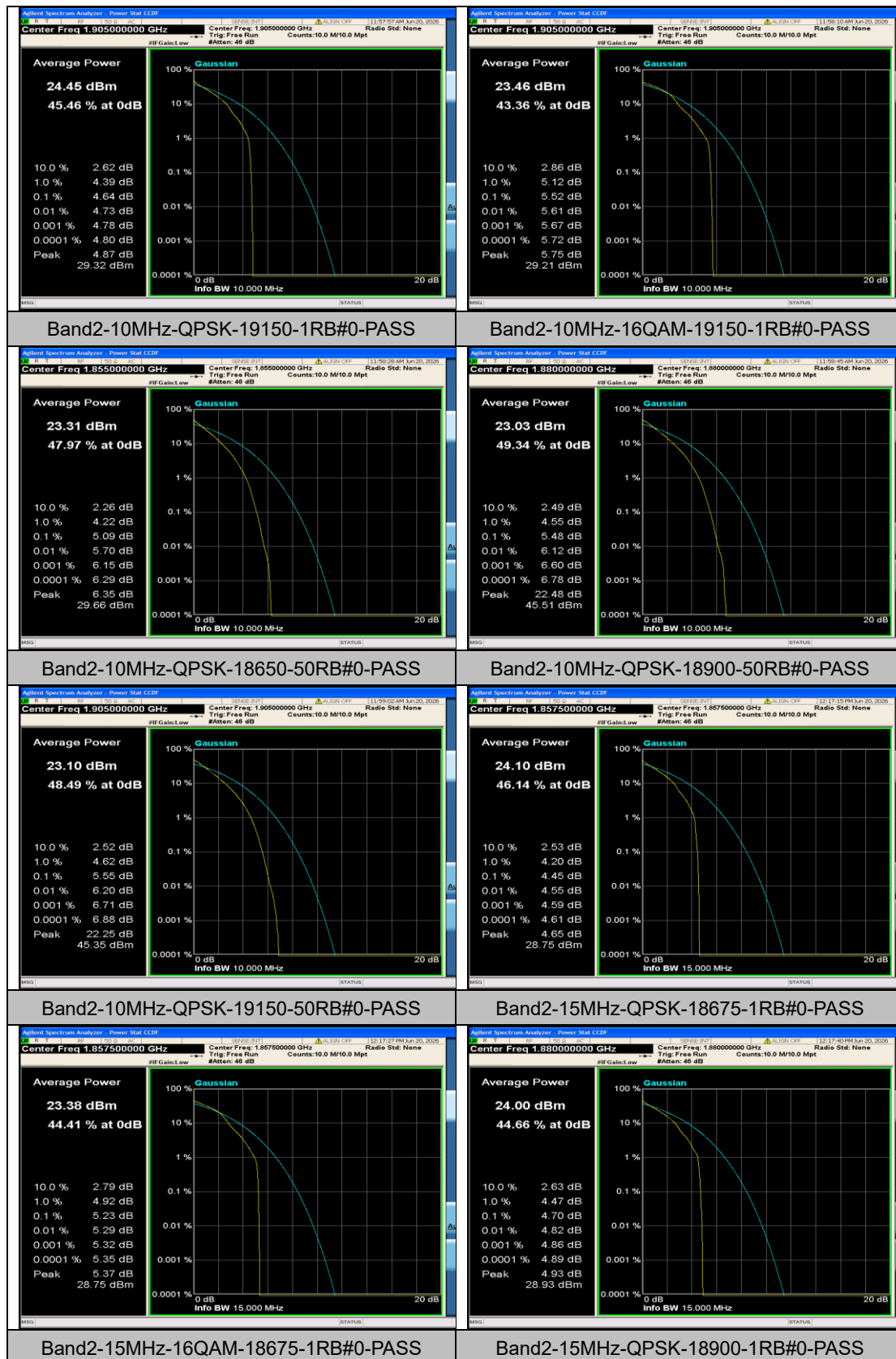


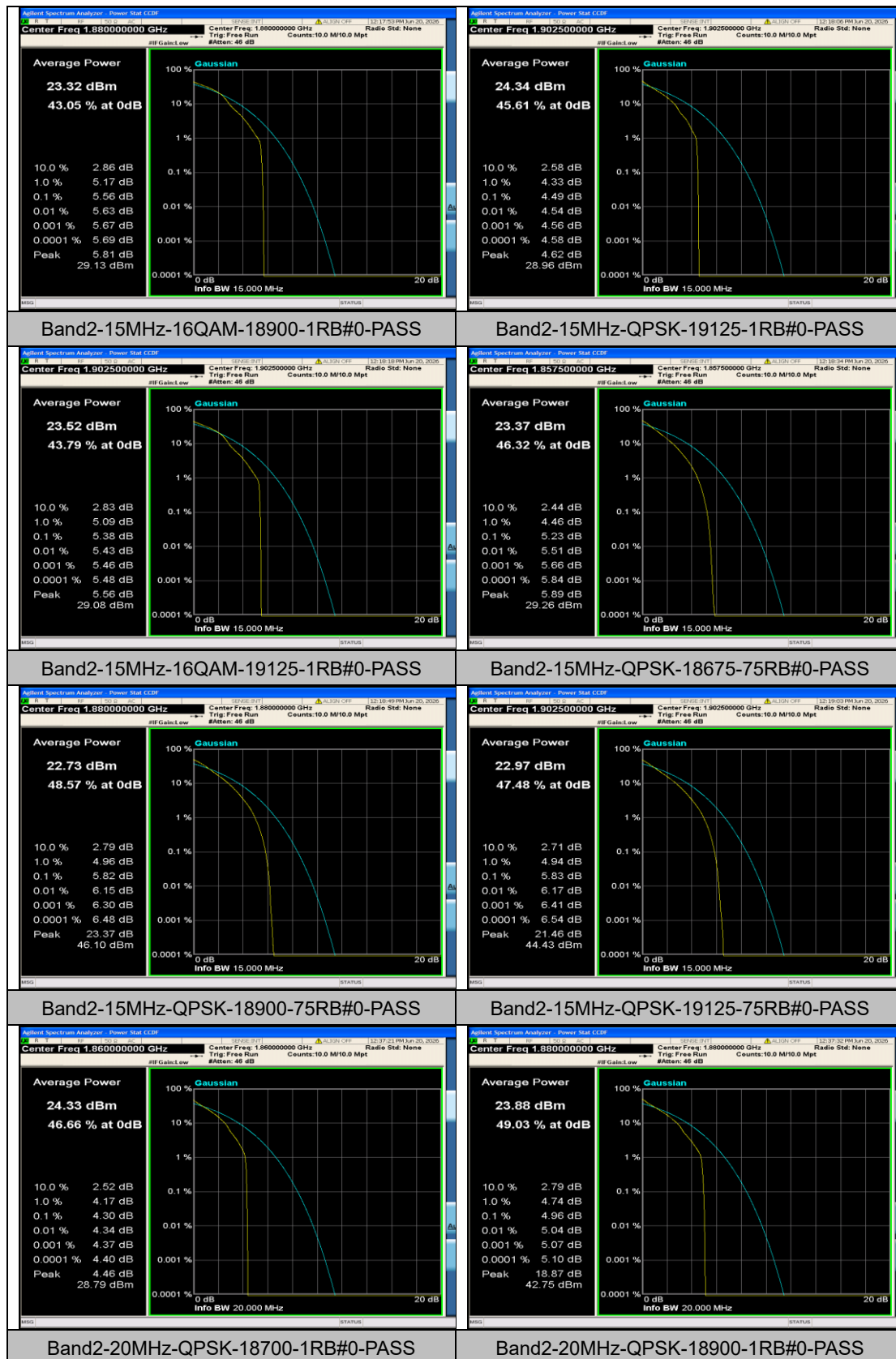


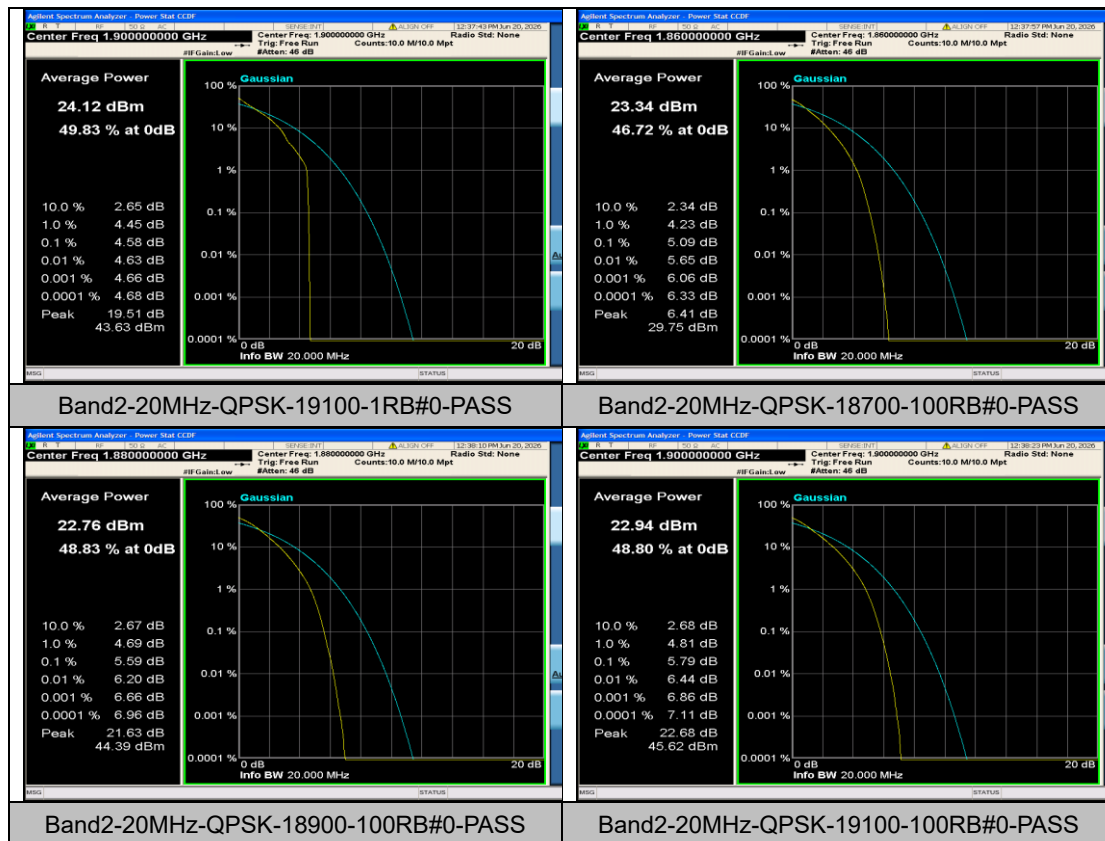












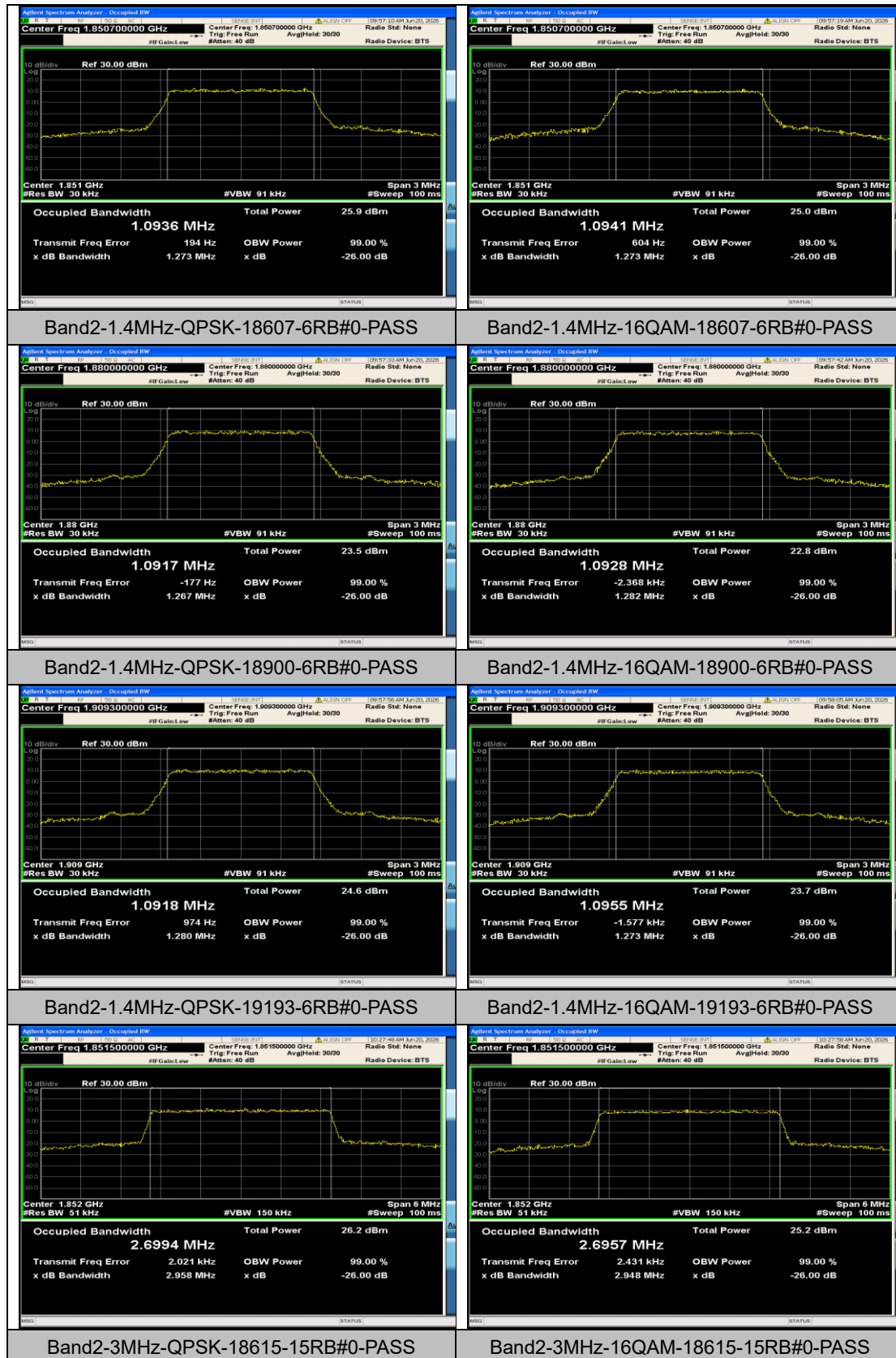
Appendix C: 26dB Bandwidth and Occupied Bandwidth

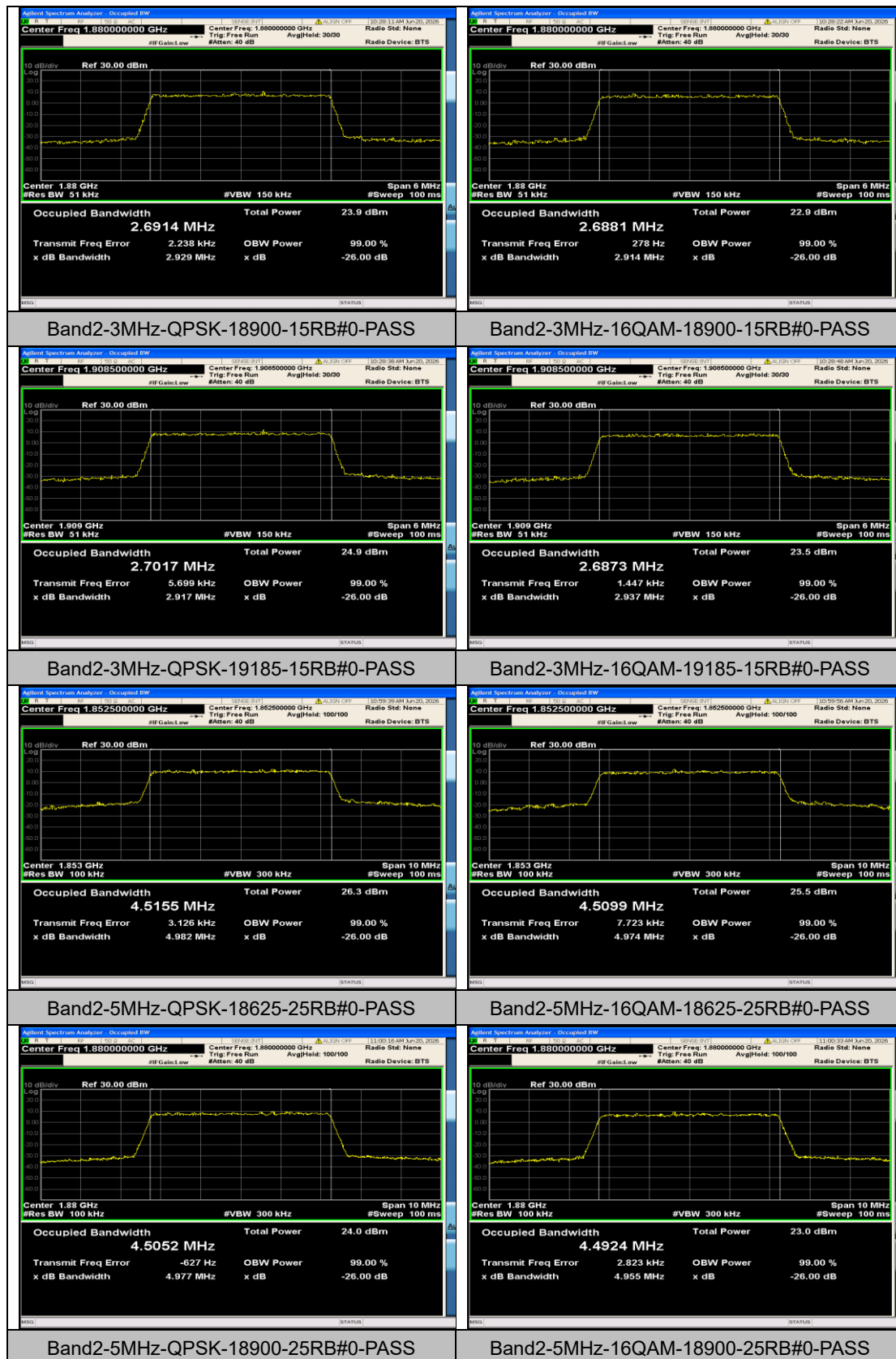
Test Result

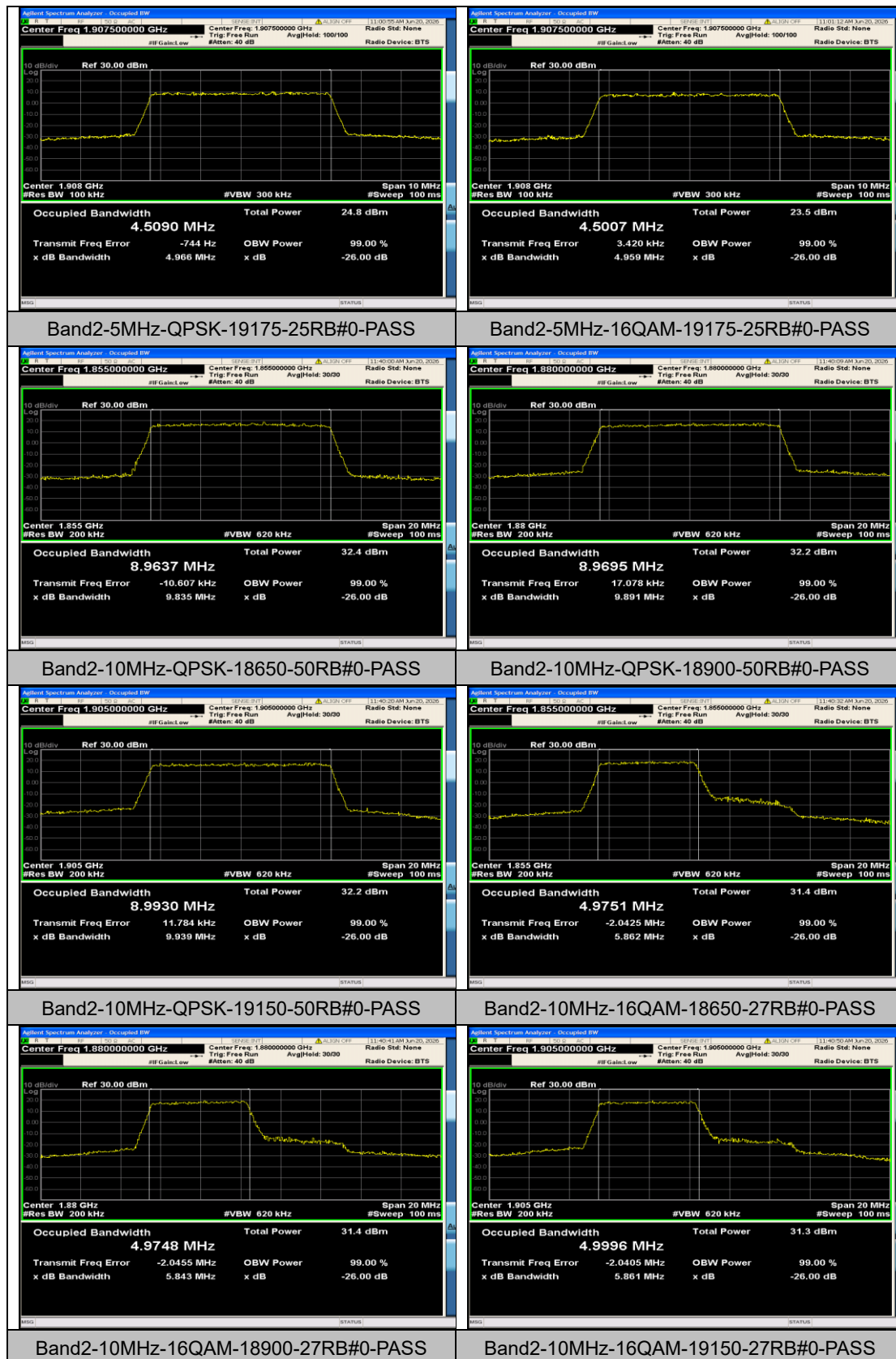
Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band2	1.4MHz	QPSK	18607	6RB#0	1.0936	1.273	PASS
Band2	1.4MHz	16QAM	18607	6RB#0	1.0941	1.273	PASS
Band2	1.4MHz	QPSK	18900	6RB#0	1.0917	1.267	PASS
Band2	1.4MHz	16QAM	18900	6RB#0	1.0928	1.282	PASS
Band2	1.4MHz	QPSK	19193	6RB#0	1.0918	1.280	PASS
Band2	1.4MHz	16QAM	19193	6RB#0	1.0955	1.273	PASS
Band2	3MHz	QPSK	18615	15RB#0	2.6994	2.958	PASS
Band2	3MHz	16QAM	18615	15RB#0	2.6957	2.948	PASS
Band2	3MHz	QPSK	18900	15RB#0	2.6914	2.929	PASS
Band2	3MHz	16QAM	18900	15RB#0	2.6881	2.914	PASS
Band2	3MHz	QPSK	19185	15RB#0	2.7017	2.917	PASS
Band2	3MHz	16QAM	19185	15RB#0	2.6873	2.937	PASS
Band2	5MHz	QPSK	18625	25RB#0	4.5155	4.982	PASS
Band2	5MHz	16QAM	18625	25RB#0	4.5099	4.974	PASS
Band2	5MHz	QPSK	18900	25RB#0	4.5052	4.977	PASS
Band2	5MHz	16QAM	18900	25RB#0	4.4924	4.955	PASS
Band2	5MHz	QPSK	19175	25RB#0	4.5090	4.966	PASS
Band2	5MHz	16QAM	19175	25RB#0	4.5007	4.959	PASS
Band2	10MHz	QPSK	18650	50RB#0	8.9637	9.835	PASS
Band2	10MHz	QPSK	18900	50RB#0	8.9695	9.891	PASS
Band2	10MHz	QPSK	19150	50RB#0	8.9930	9.939	PASS
Band2	10MHz	16QAM	18650	27RB#0	4.9751	5.862	PASS
Band2	10MHz	16QAM	18900	27RB#0	4.9748	5.843	PASS
Band2	10MHz	16QAM	19150	27RB#0	4.9996	5.861	PASS
Band2	15MHz	QPSK	18675	75RB#0	13.438	14.77	PASS
Band2	15MHz	QPSK	18900	75RB#0	13.472	14.79	PASS
Band2	15MHz	QPSK	19125	75RB#0	13.525	14.84	PASS
Band2	15MHz	16QAM	18675	27RB#0	5.1073	6.095	PASS
Band2	15MHz	16QAM	18900	27RB#0	5.1017	6.030	PASS
Band2	15MHz	16QAM	19125	27RB#0	5.0693	6.119	PASS
Band2	20MHz	QPSK	18700	100RB#0	17.872	19.41	PASS
Band2	20MHz	QPSK	18900	100RB#0	17.906	19.41	PASS
Band2	20MHz	QPSK	19100	100RB#0	18.002	19.55	PASS
Band2	20MHz	16QAM	18700	27RB#0	5.2446	6.476	PASS

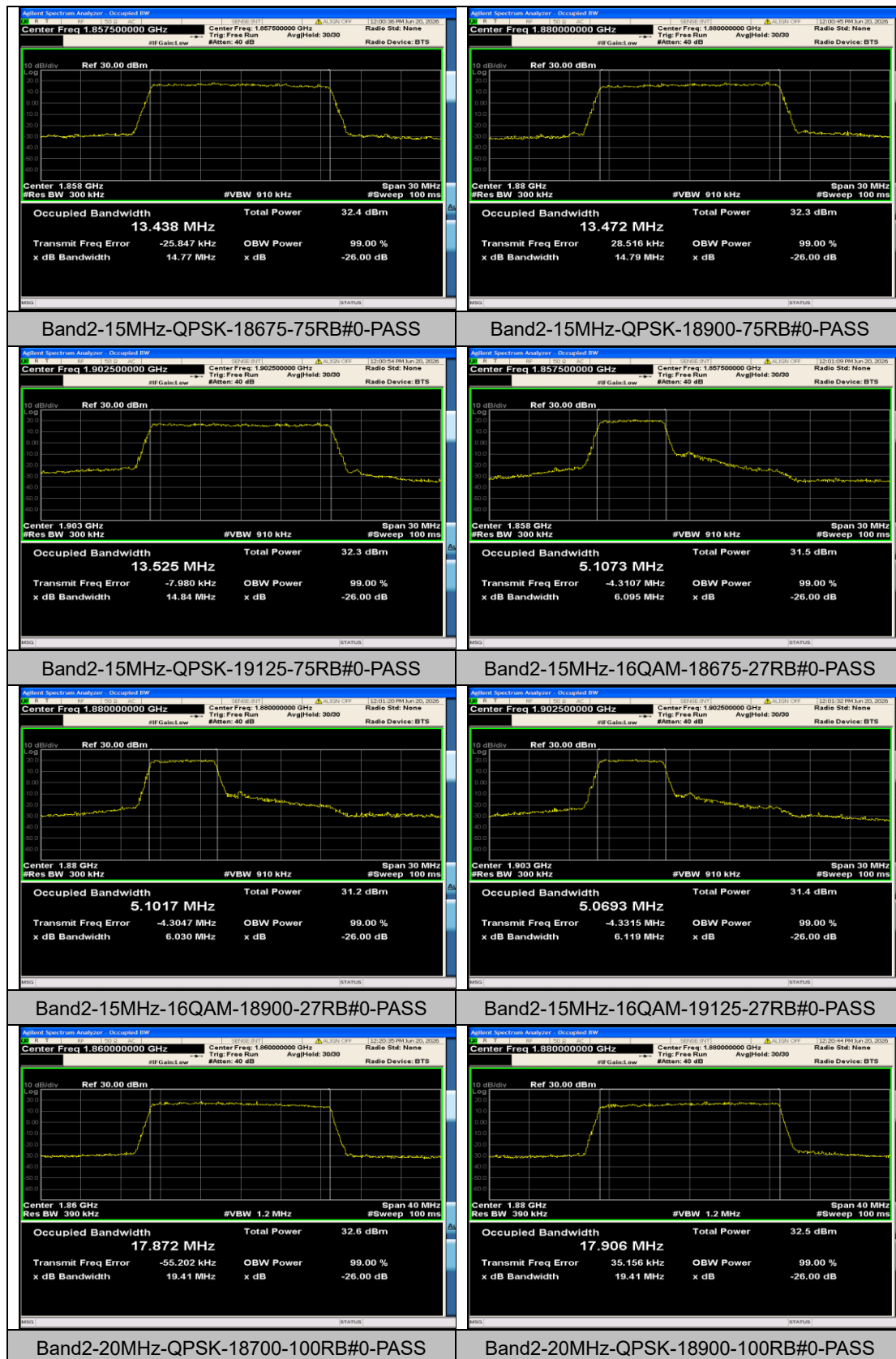
Band2	20MHz	16QAM	18900	27RB#0	5.2549	6.487	PASS
Band2	20MHz	16QAM	19100	27RB#0	5.2376	6.499	PASS

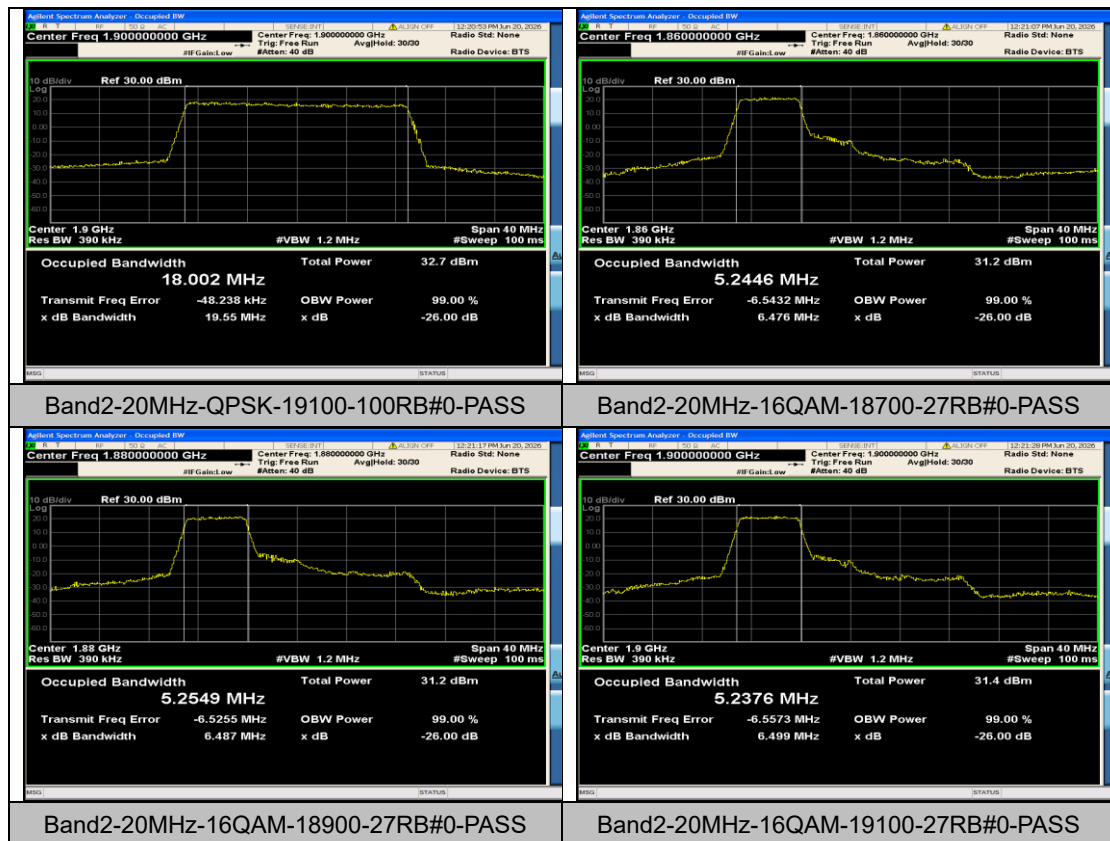
Test Graphs











Appendix D: Band Edge

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band2	1.4MHz	QPSK	18607	1RB#0	-31.17	PASS
Band2	1.4MHz	16QAM	18607	1RB#0	-25.75	PASS
Band2	1.4MHz	QPSK	18607	1RB#5	-41.39	PASS
Band2	1.4MHz	16QAM	18607	1RB#5	-39.34	PASS
Band2	1.4MHz	QPSK	18607	6RB#0	-24.99	PASS
Band2	1.4MHz	16QAM	18607	6RB#0	-28.96	PASS
Band2	1.4MHz	QPSK	19193	1RB#0	-41.00	PASS
Band2	1.4MHz	16QAM	19193	1RB#0	-41.93	PASS
Band2	1.4MHz	QPSK	19193	1RB#5	-28.48	PASS
Band2	1.4MHz	16QAM	19193	1RB#5	-36.72	PASS
Band2	1.4MHz	QPSK	19193	6RB#0	-30.76	PASS
Band2	1.4MHz	16QAM	19193	6RB#0	-37.80	PASS
Band2	3MHz	QPSK	18615	1RB#0	-26.58	PASS
Band2	3MHz	16QAM	18615	1RB#0	-29.06	PASS
Band2	3MHz	QPSK	18615	1RB#14	-46.28	PASS
Band2	3MHz	16QAM	18615	1RB#14	-47.41	PASS
Band2	3MHz	QPSK	18615	15RB#0	-30.96	PASS
Band2	3MHz	16QAM	18615	15RB#0	-34.49	PASS
Band2	3MHz	QPSK	19185	1RB#0	-46.22	PASS
Band2	3MHz	16QAM	19185	1RB#0	-47.32	PASS
Band2	3MHz	QPSK	19185	1RB#14	-25.17	PASS
Band2	3MHz	16QAM	19185	1RB#14	-28.58	PASS
Band2	3MHz	QPSK	19185	15RB#0	-38.00	PASS
Band2	3MHz	16QAM	19185	15RB#0	-39.66	PASS
Band2	5MHz	QPSK	18625	1RB#0	-29.47	PASS
Band2	5MHz	16QAM	18625	1RB#0	-32.23	PASS
Band2	5MHz	QPSK	18625	1RB#24	-52.80	PASS
Band2	5MHz	16QAM	18625	1RB#24	-53.21	PASS
Band2	5MHz	QPSK	18625	25RB#0	-32.52	PASS
Band2	5MHz	16QAM	18625	25RB#0	-35.53	PASS
Band2	5MHz	QPSK	19175	1RB#0	-52.97	PASS
Band2	5MHz	16QAM	19175	1RB#0	-53.63	PASS
Band2	5MHz	QPSK	19175	1RB#24	-30.26	PASS
Band2	5MHz	16QAM	19175	1RB#24	-32.46	PASS
Band2	5MHz	QPSK	19175	25RB#0	-39.57	PASS
Band2	5MHz	16QAM	19175	25RB#0	-40.66	PASS
Band2	10MHz	QPSK	18650	1RB#0	-37.50	PASS

Band2	10MHz	16QAM	18650	1RB#0	-38.90	PASS
Band2	10MHz	QPSK	18650	1RB#49	-52.76	PASS
Band2	10MHz	16QAM	18650	1RB#49	-53.39	PASS
Band2	10MHz	QPSK	19150	1RB#0	-52.18	PASS
Band2	10MHz	16QAM	19150	1RB#0	-52.71	PASS
Band2	10MHz	QPSK	19150	1RB#49	-37.03	PASS
Band2	10MHz	16QAM	19150	1RB#49	-37.97	PASS
Band2	10MHz	QPSK	18650	50RB#0	-36.18	PASS
Band2	10MHz	QPSK	19150	50RB#0	-36.52	PASS
Band2	15MHz	QPSK	18675	1RB#0	-37.79	PASS
Band2	15MHz	16QAM	18675	1RB#0	-38.65	PASS
Band2	15MHz	QPSK	18675	1RB#74	-52.06	PASS
Band2	15MHz	16QAM	18675	1RB#74	-52.17	PASS
Band2	15MHz	QPSK	19125	1RB#0	-51.76	PASS
Band2	15MHz	16QAM	19125	1RB#0	-52.05	PASS
Band2	15MHz	QPSK	19125	1RB#74	-37.77	PASS
Band2	15MHz	16QAM	19125	1RB#74	-38.80	PASS
Band2	15MHz	QPSK	18675	75RB#0	-37.99	PASS
Band2	15MHz	QPSK	19125	75RB#0	-38.42	PASS
Band2	20MHz	QPSK	18700	1RB#0	-38.93	PASS
Band2	20MHz	16QAM	18700	1RB#0	-39.59	PASS
Band2	20MHz	QPSK	18700	1RB#99	-51.05	PASS
Band2	20MHz	16QAM	18700	1RB#99	-51.16	PASS
Band2	20MHz	QPSK	19100	1RB#0	-51.13	PASS
Band2	20MHz	16QAM	19100	1RB#0	-51.21	PASS
Band2	20MHz	QPSK	19100	1RB#99	-39.02	PASS
Band2	20MHz	16QAM	19100	1RB#99	-39.87	PASS
Band2	20MHz	QPSK	18700	100RB#0	-39.49	PASS
Band2	20MHz	QPSK	19100	100RB#0	-40.31	PASS

Test Graphs

