

FCC Appendix RF Test Data for LTE Band 2

FCC ID : 2BYEV-HELIXX

Company : SHENZHEN DANFOO TECHNOLOGY CO.,LTD.

EUT : Smart Bee Box

Model Number : HELIX X

Report No. : CTA26071300502

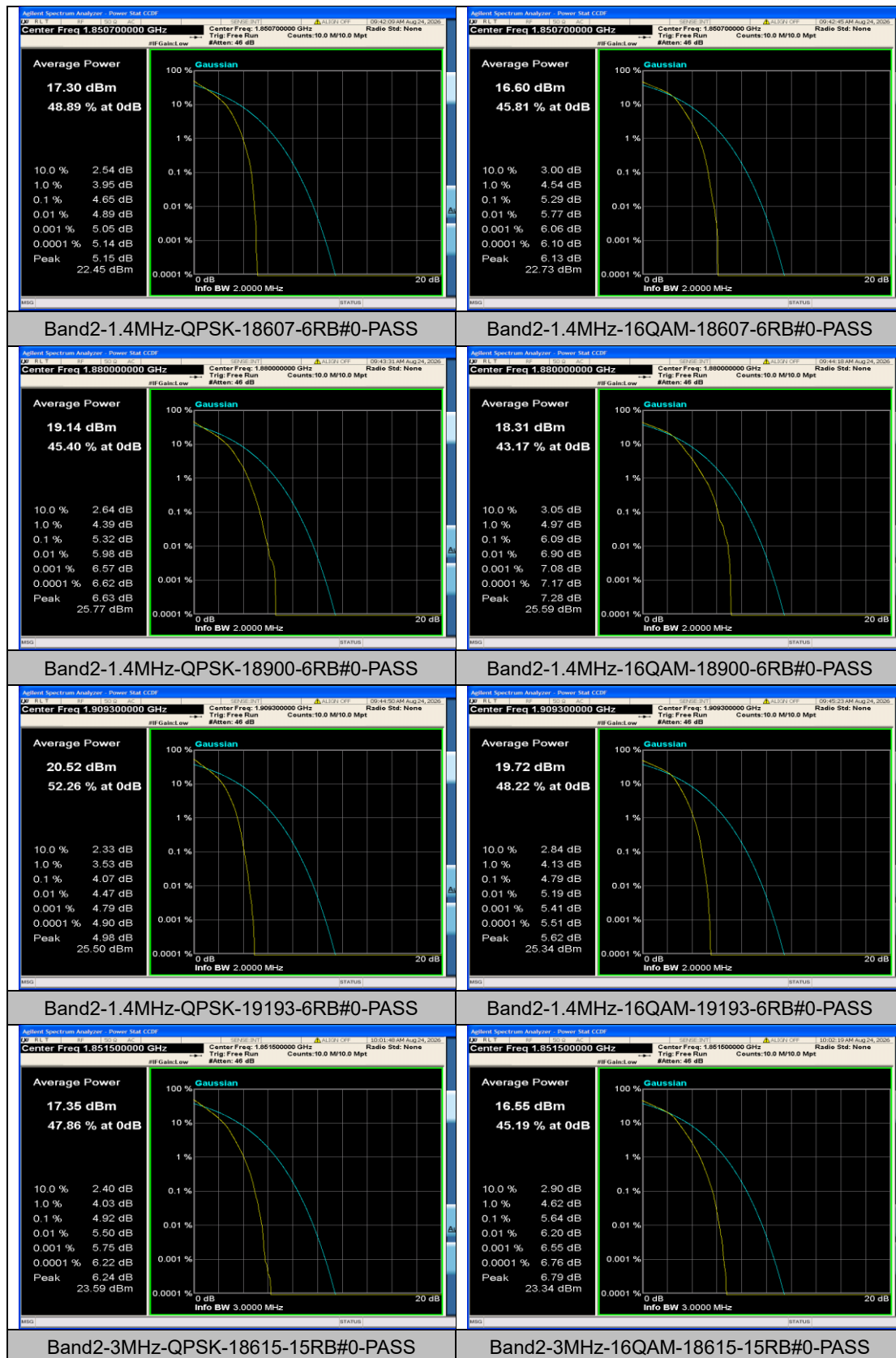
Reviewed By : Eric Wang

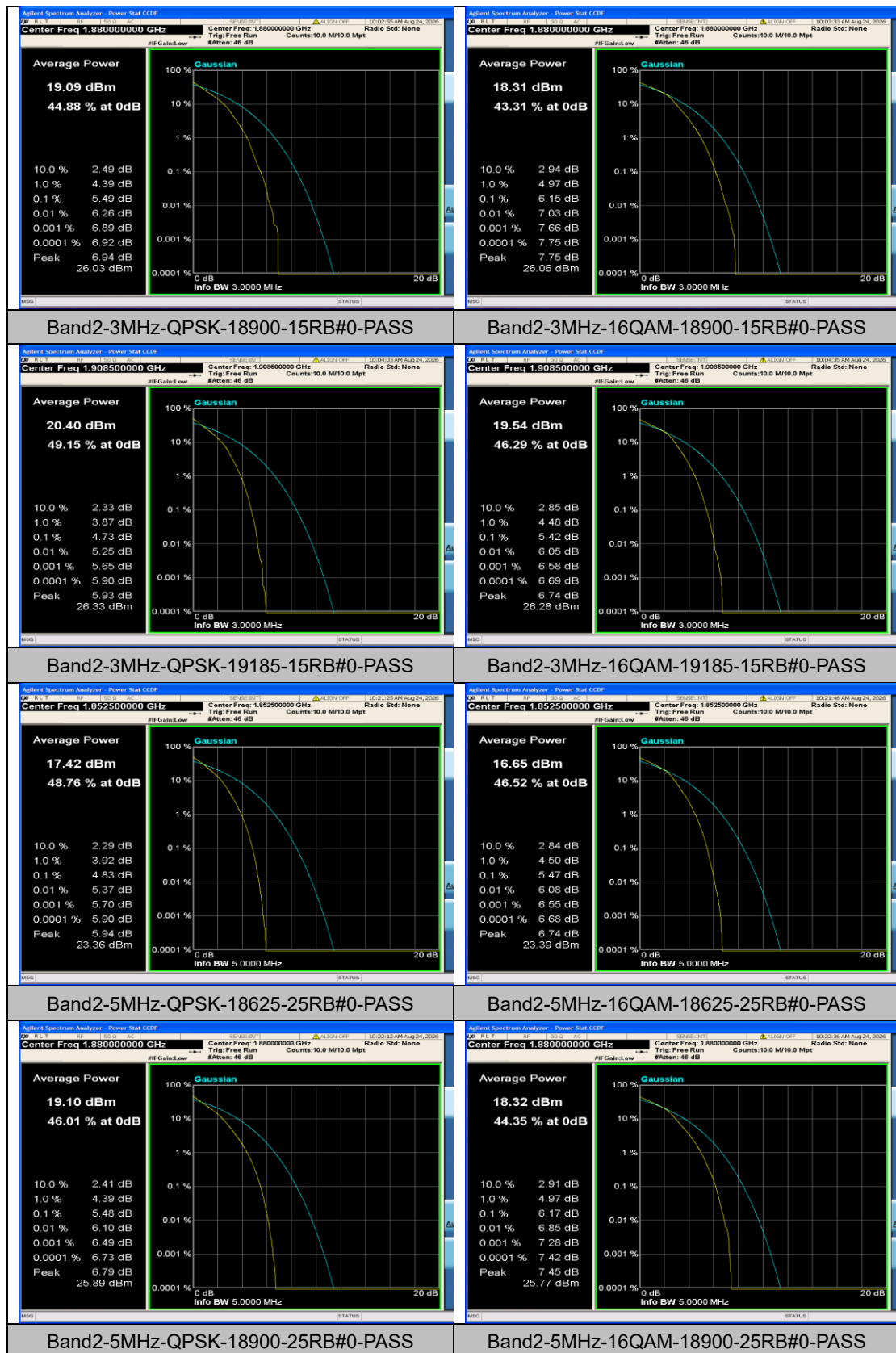
Appendix B: Peak-to-Average Ratio(CCDF)

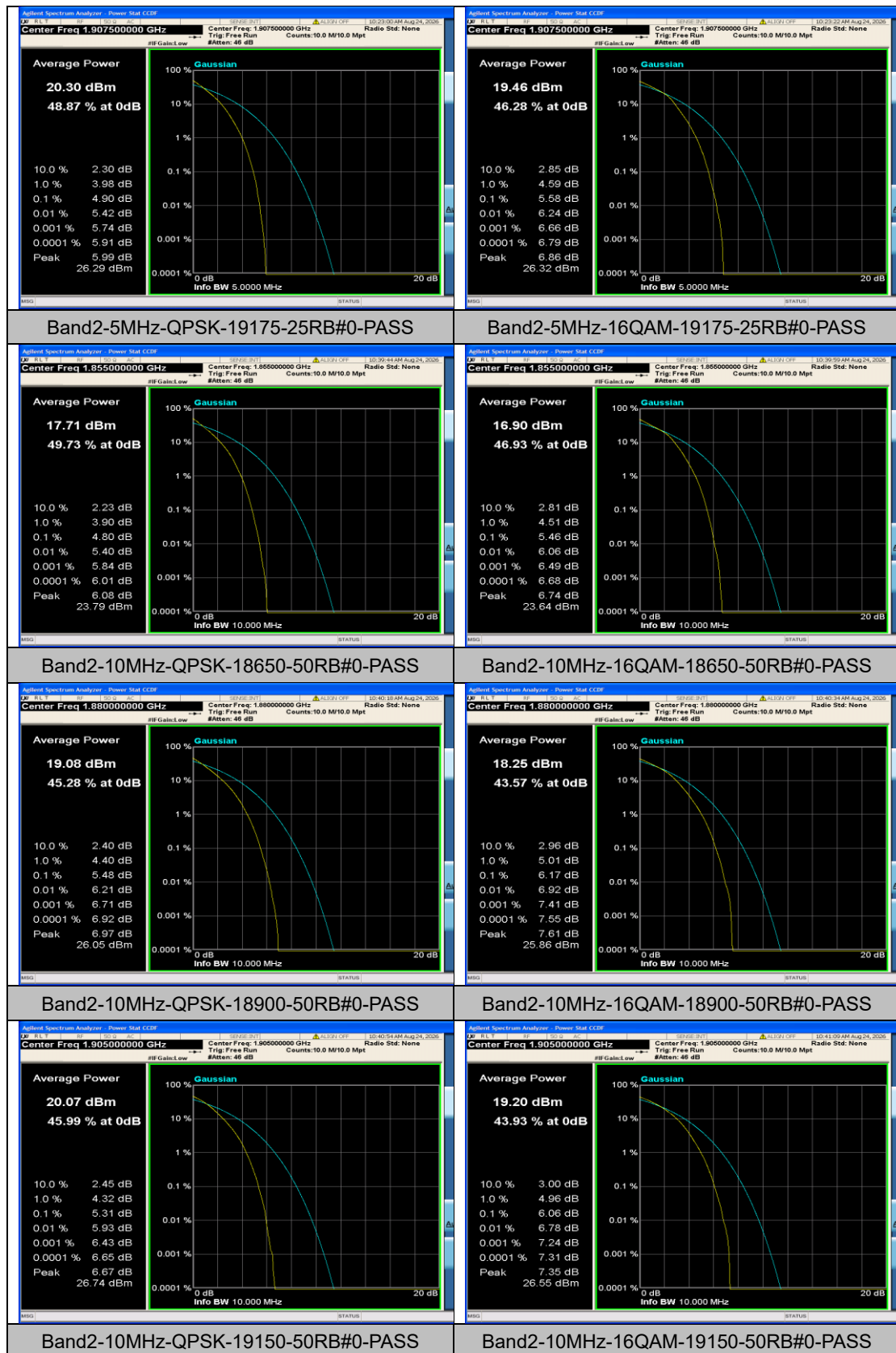
Test Result

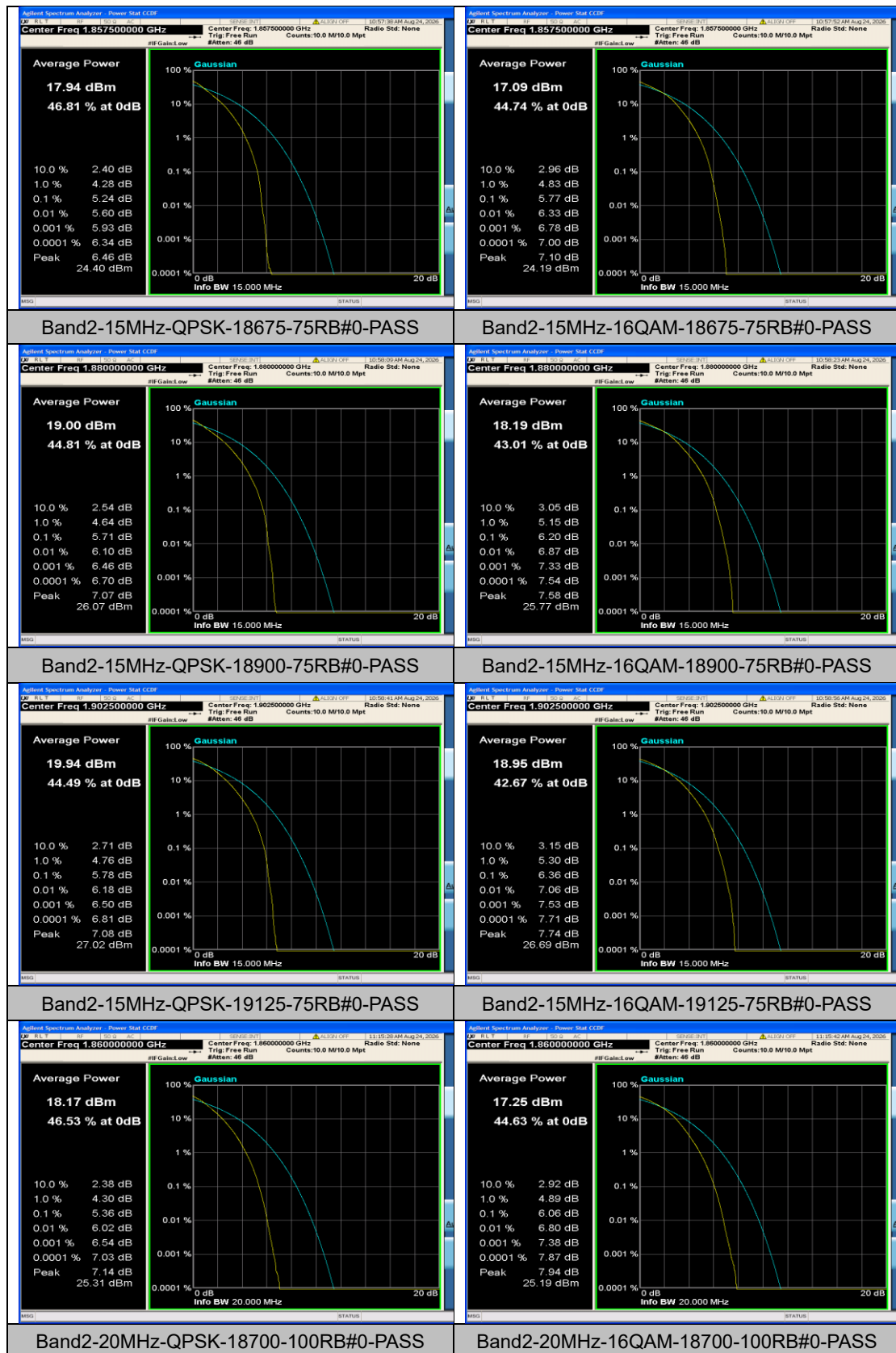
Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band2	1.4MHz	QPSK	18607	6RB#0	4.65	13	PASS
Band2	1.4MHz	16QAM	18607	6RB#0	5.29	13	PASS
Band2	1.4MHz	QPSK	18900	6RB#0	5.32	13	PASS
Band2	1.4MHz	16QAM	18900	6RB#0	6.09	13	PASS
Band2	1.4MHz	QPSK	19193	6RB#0	4.07	13	PASS
Band2	1.4MHz	16QAM	19193	6RB#0	4.79	13	PASS
Band2	3MHz	QPSK	18615	15RB#0	4.92	13	PASS
Band2	3MHz	16QAM	18615	15RB#0	5.64	13	PASS
Band2	3MHz	QPSK	18900	15RB#0	5.49	13	PASS
Band2	3MHz	16QAM	18900	15RB#0	6.15	13	PASS
Band2	3MHz	QPSK	19185	15RB#0	4.73	13	PASS
Band2	3MHz	16QAM	19185	15RB#0	5.42	13	PASS
Band2	5MHz	QPSK	18625	25RB#0	4.83	13	PASS
Band2	5MHz	16QAM	18625	25RB#0	5.47	13	PASS
Band2	5MHz	QPSK	18900	25RB#0	5.48	13	PASS
Band2	5MHz	16QAM	18900	25RB#0	6.17	13	PASS
Band2	5MHz	QPSK	19175	25RB#0	4.90	13	PASS
Band2	5MHz	16QAM	19175	25RB#0	5.58	13	PASS
Band2	10MHz	QPSK	18650	50RB#0	4.80	13	PASS
Band2	10MHz	16QAM	18650	50RB#0	5.46	13	PASS
Band2	10MHz	QPSK	18900	50RB#0	5.48	13	PASS
Band2	10MHz	16QAM	18900	50RB#0	6.17	13	PASS
Band2	10MHz	QPSK	19150	50RB#0	5.31	13	PASS
Band2	10MHz	16QAM	19150	50RB#0	6.06	13	PASS
Band2	15MHz	QPSK	18675	75RB#0	5.24	13	PASS
Band2	15MHz	16QAM	18675	75RB#0	5.77	13	PASS
Band2	15MHz	QPSK	18900	75RB#0	5.71	13	PASS
Band2	15MHz	16QAM	18900	75RB#0	6.20	13	PASS
Band2	15MHz	QPSK	19125	75RB#0	5.78	13	PASS
Band2	15MHz	16QAM	19125	75RB#0	6.36	13	PASS
Band2	20MHz	QPSK	18700	100RB#0	5.36	13	PASS
Band2	20MHz	16QAM	18700	100RB#0	6.06	13	PASS
Band2	20MHz	QPSK	18900	100RB#0	5.40	13	PASS
Band2	20MHz	16QAM	18900	100RB#0	6.13	13	PASS
Band2	20MHz	QPSK	19100	100RB#0	5.74	13	PASS
Band2	20MHz	16QAM	19100	100RB#0	6.44	13	PASS

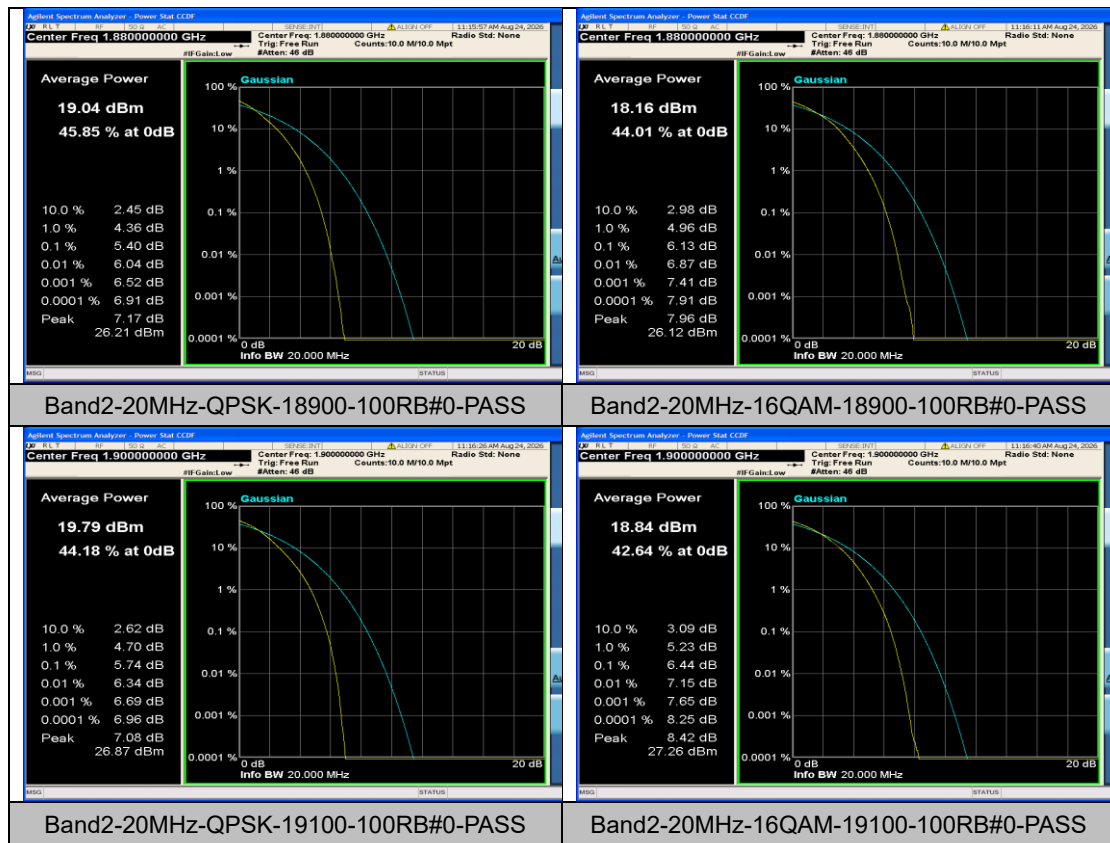
Test Graphs









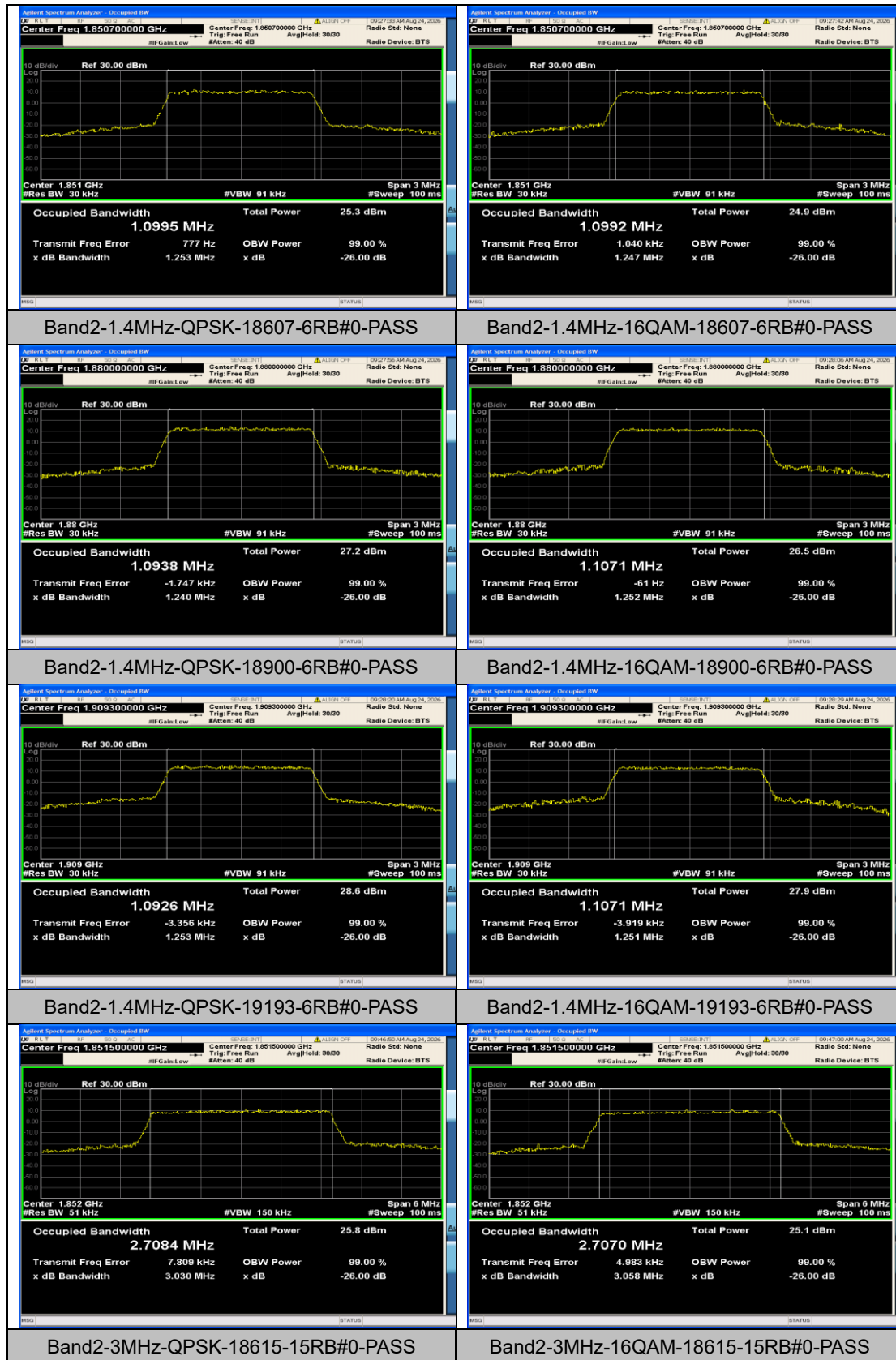


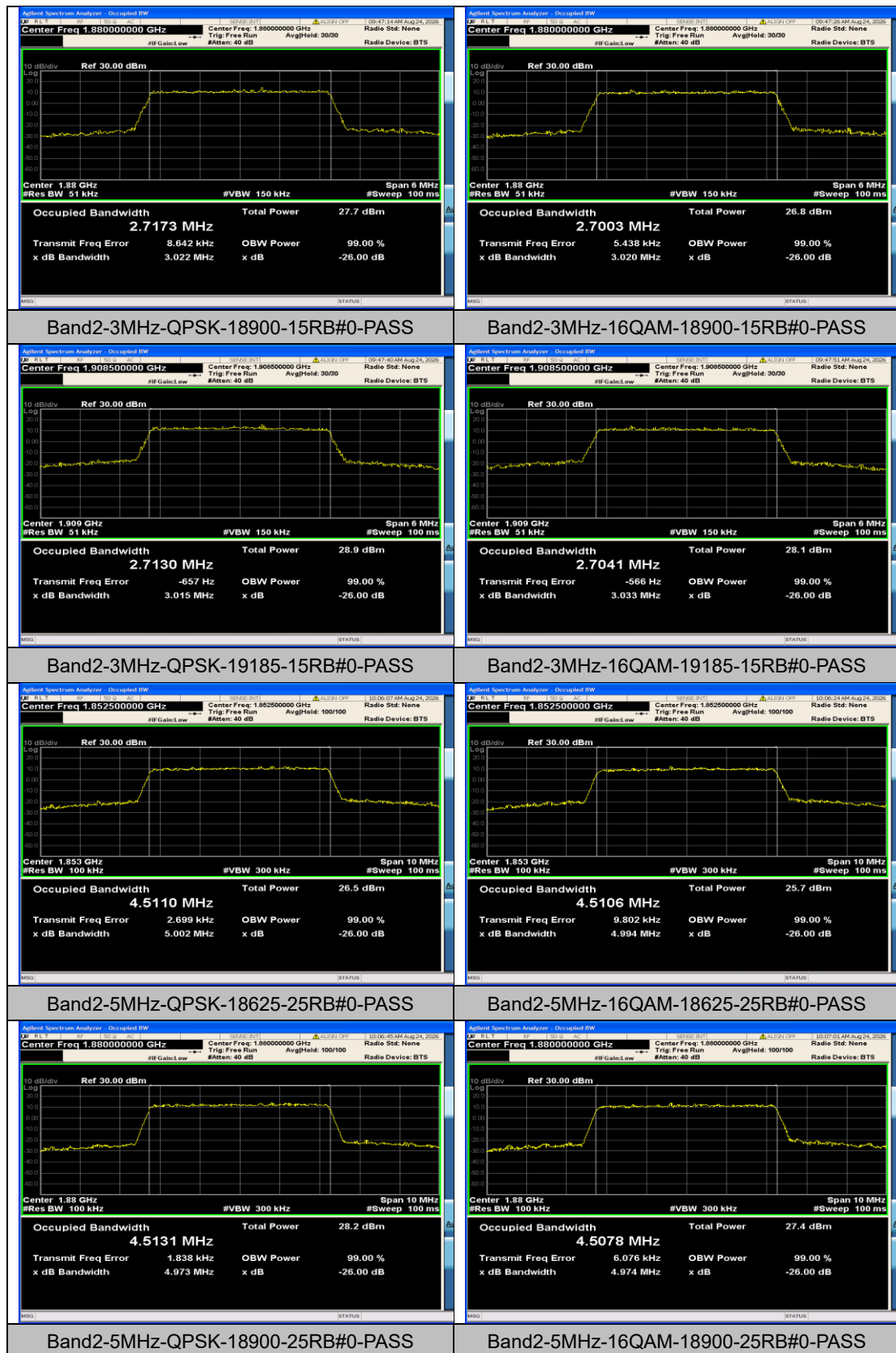
Appendix C: 26dB Bandwidth and Occupied Bandwidth

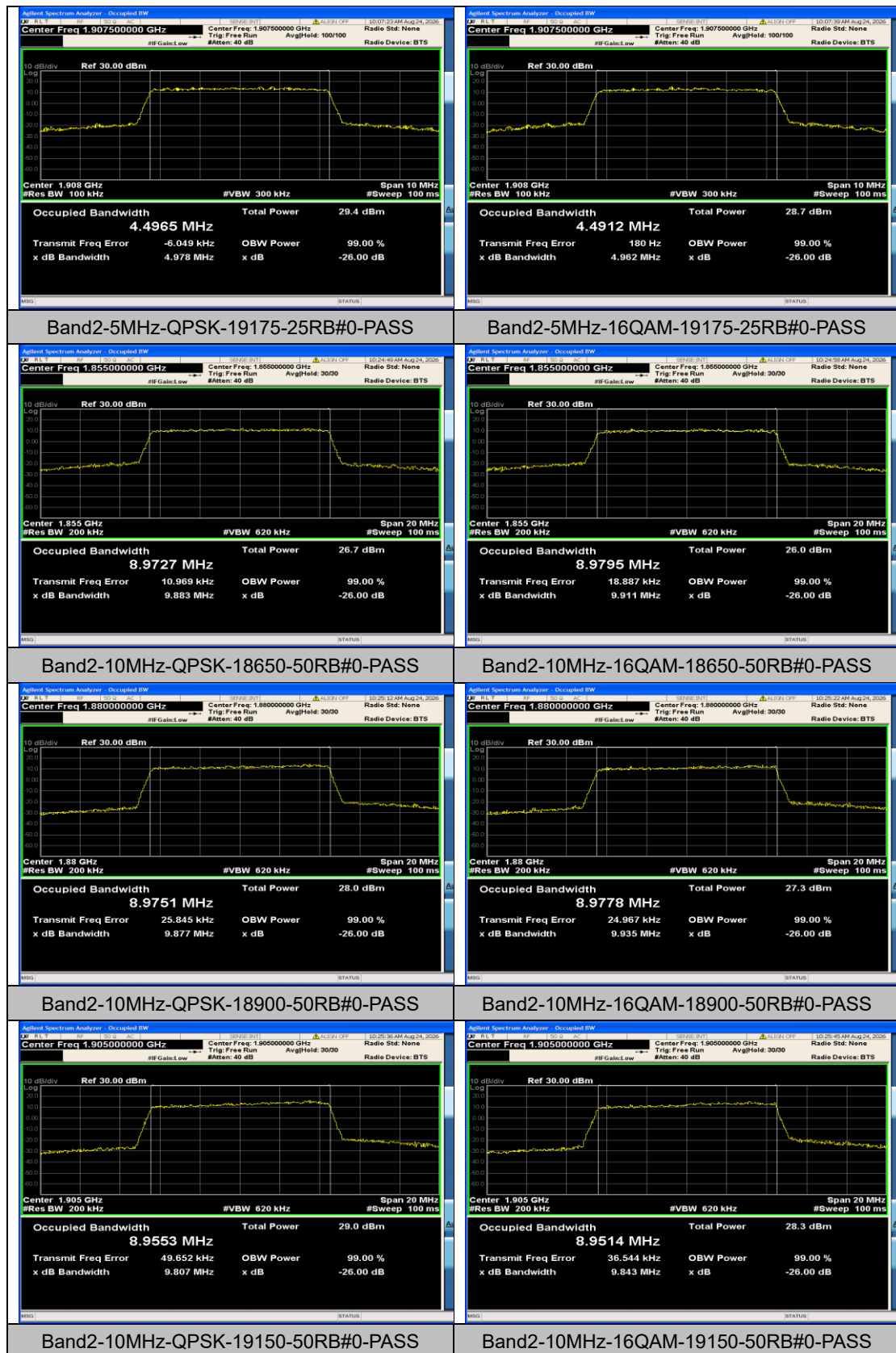
Test Result

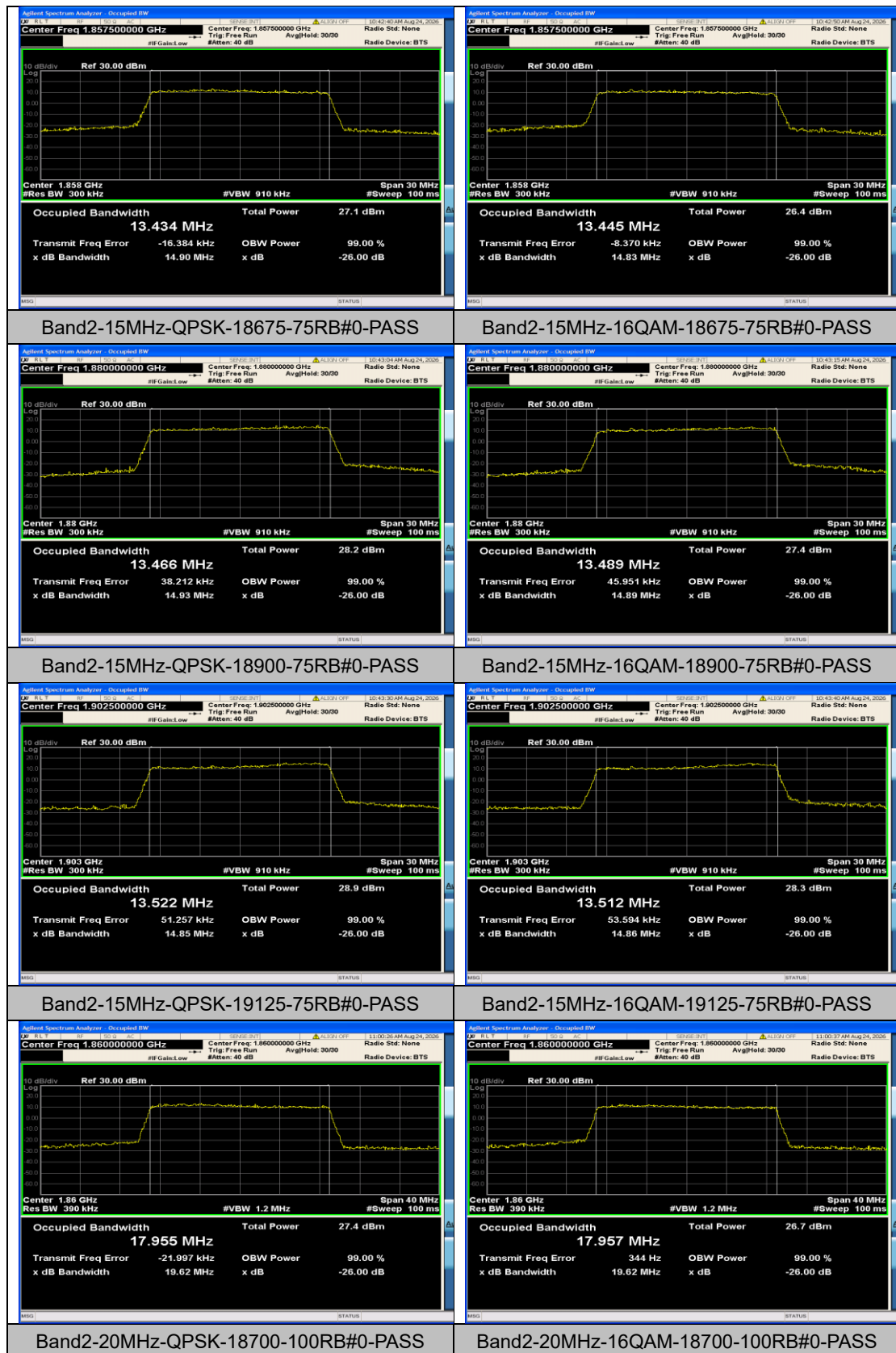
Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band2	1.4MHz	QPSK	18607	6RB#0	1.0995	1.253	PASS
Band2	1.4MHz	16QAM	18607	6RB#0	1.0992	1.247	PASS
Band2	1.4MHz	QPSK	18900	6RB#0	1.0938	1.240	PASS
Band2	1.4MHz	16QAM	18900	6RB#0	1.1071	1.252	PASS
Band2	1.4MHz	QPSK	19193	6RB#0	1.0926	1.253	PASS
Band2	1.4MHz	16QAM	19193	6RB#0	1.1071	1.251	PASS
Band2	3MHz	QPSK	18615	15RB#0	2.7084	3.030	PASS
Band2	3MHz	16QAM	18615	15RB#0	2.7070	3.058	PASS
Band2	3MHz	QPSK	18900	15RB#0	2.7173	3.022	PASS
Band2	3MHz	16QAM	18900	15RB#0	2.7003	3.020	PASS
Band2	3MHz	QPSK	19185	15RB#0	2.7130	3.015	PASS
Band2	3MHz	16QAM	19185	15RB#0	2.7041	3.033	PASS
Band2	5MHz	QPSK	18625	25RB#0	4.5110	5.002	PASS
Band2	5MHz	16QAM	18625	25RB#0	4.5106	4.994	PASS
Band2	5MHz	QPSK	18900	25RB#0	4.5131	4.973	PASS
Band2	5MHz	16QAM	18900	25RB#0	4.5078	4.974	PASS
Band2	5MHz	QPSK	19175	25RB#0	4.4965	4.978	PASS
Band2	5MHz	16QAM	19175	25RB#0	4.4912	4.962	PASS
Band2	10MHz	QPSK	18650	50RB#0	8.9727	9.883	PASS
Band2	10MHz	16QAM	18650	50RB#0	8.9795	9.911	PASS
Band2	10MHz	QPSK	18900	50RB#0	8.9751	9.877	PASS
Band2	10MHz	16QAM	18900	50RB#0	8.9778	9.935	PASS
Band2	10MHz	QPSK	19150	50RB#0	8.9553	9.807	PASS
Band2	10MHz	16QAM	19150	50RB#0	8.9514	9.843	PASS
Band2	15MHz	QPSK	18675	75RB#0	13.434	14.90	PASS
Band2	15MHz	16QAM	18675	75RB#0	13.445	14.83	PASS
Band2	15MHz	QPSK	18900	75RB#0	13.466	14.93	PASS
Band2	15MHz	16QAM	18900	75RB#0	13.489	14.89	PASS
Band2	15MHz	QPSK	19125	75RB#0	13.522	14.85	PASS
Band2	15MHz	16QAM	19125	75RB#0	13.512	14.86	PASS
Band2	20MHz	QPSK	18700	100RB#0	17.955	19.62	PASS
Band2	20MHz	16QAM	18700	100RB#0	17.957	19.62	PASS
Band2	20MHz	QPSK	18900	100RB#0	17.955	19.63	PASS
Band2	20MHz	16QAM	18900	100RB#0	17.955	19.58	PASS
Band2	20MHz	QPSK	19100	100RB#0	18.188	19.76	PASS
Band2	20MHz	16QAM	19100	100RB#0	18.114	19.73	PASS

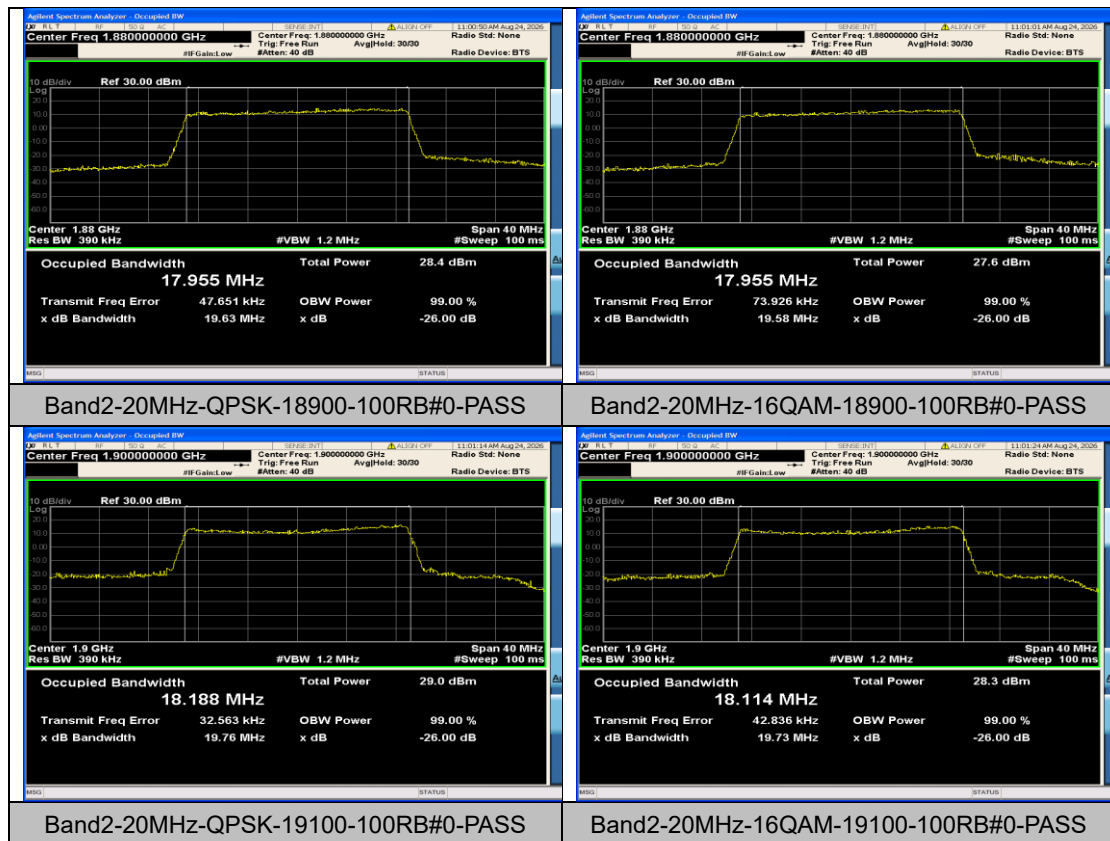
Test Graphs











Appendix D: Band Edge

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band2	1.4MHz	QPSK	18607	6RB#0	-26.31	PASS
Band2	1.4MHz	16QAM	18607	6RB#0	-27.44	PASS
Band2	1.4MHz	QPSK	19193	6RB#0	-22.43	PASS
Band2	1.4MHz	16QAM	19193	6RB#0	-23.36	PASS
Band2	3MHz	QPSK	18615	15RB#0	-30.98	PASS
Band2	3MHz	16QAM	18615	15RB#0	-31.70	PASS
Band2	3MHz	QPSK	19185	15RB#0	-28.69	PASS
Band2	3MHz	16QAM	19185	15RB#0	-29.13	PASS
Band2	5MHz	QPSK	18625	25RB#0	-34.79	PASS
Band2	5MHz	16QAM	18625	25RB#0	-36.12	PASS
Band2	5MHz	QPSK	19175	25RB#0	-33.17	PASS
Band2	5MHz	16QAM	19175	25RB#0	-34.23	PASS
Band2	10MHz	QPSK	18650	50RB#0	-34.95	PASS
Band2	10MHz	16QAM	18650	50RB#0	-37.22	PASS
Band2	10MHz	QPSK	19150	50RB#0	-33.54	PASS
Band2	10MHz	16QAM	19150	50RB#0	-34.05	PASS
Band2	15MHz	QPSK	18675	75RB#0	-35.00	PASS
Band2	15MHz	16QAM	18675	75RB#0	-36.82	PASS
Band2	15MHz	QPSK	19125	75RB#0	-34.49	PASS
Band2	15MHz	16QAM	19125	75RB#0	-36.13	PASS
Band2	20MHz	QPSK	18700	100RB#0	-37.96	PASS
Band2	20MHz	16QAM	18700	100RB#0	-38.63	PASS
Band2	20MHz	QPSK	19100	100RB#0	-35.91	PASS
Band2	20MHz	16QAM	19100	100RB#0	-37.04	PASS

Test Graphs

