

FCC Appendix RF Test Data for LTE Band 2

FCC ID : 2BYEV-ORIGOT108

Company : SHENZHEN DANFOO TECHNOLOGY CO.,LTD.

EUT : Smart Bee Box

Model Number : ORIGO T108

Report No. : CTA26062401102

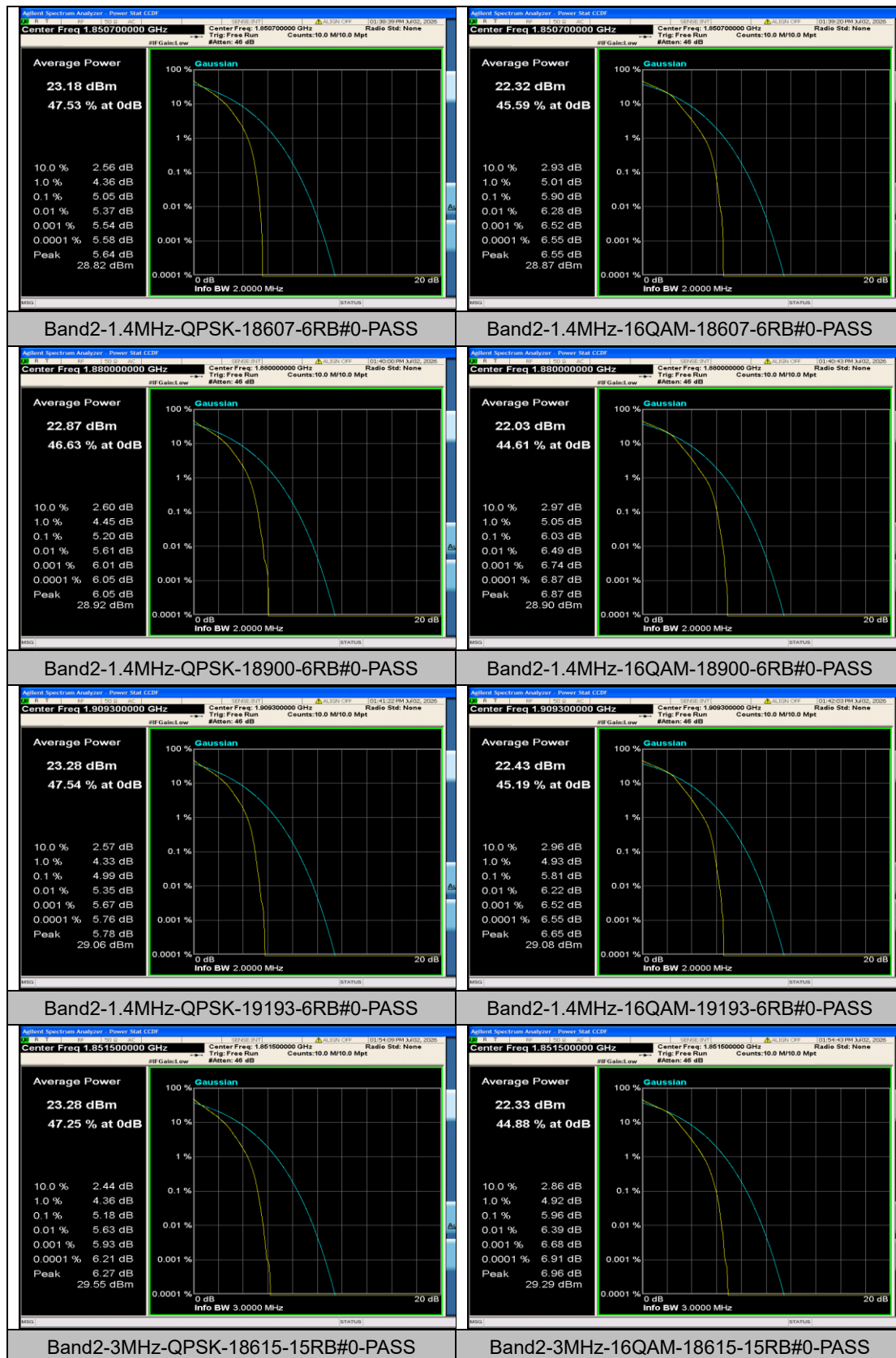
Reviewed By : Eric Wang

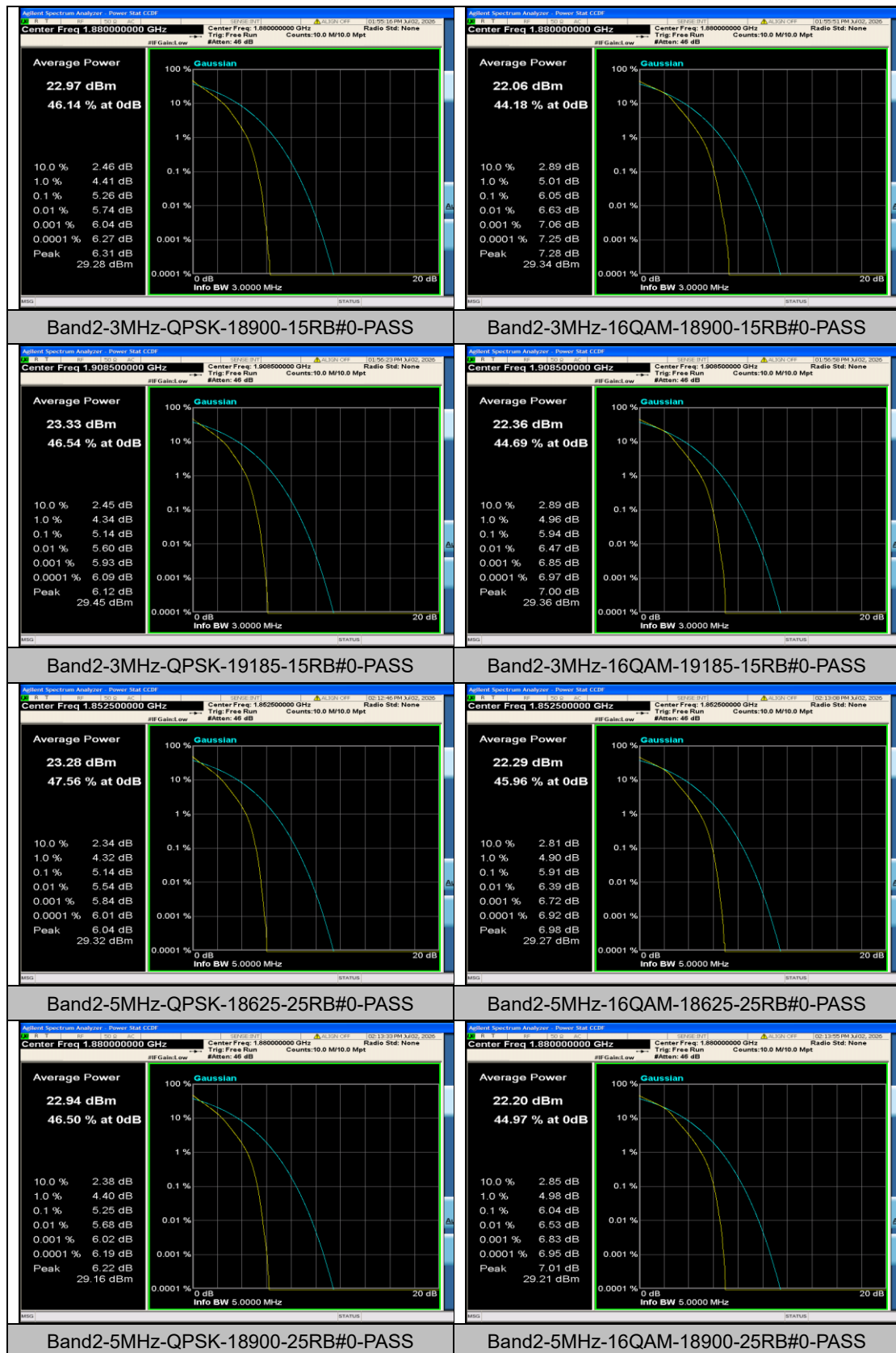
Appendix B: Peak-to-Average Ratio(CCDF)

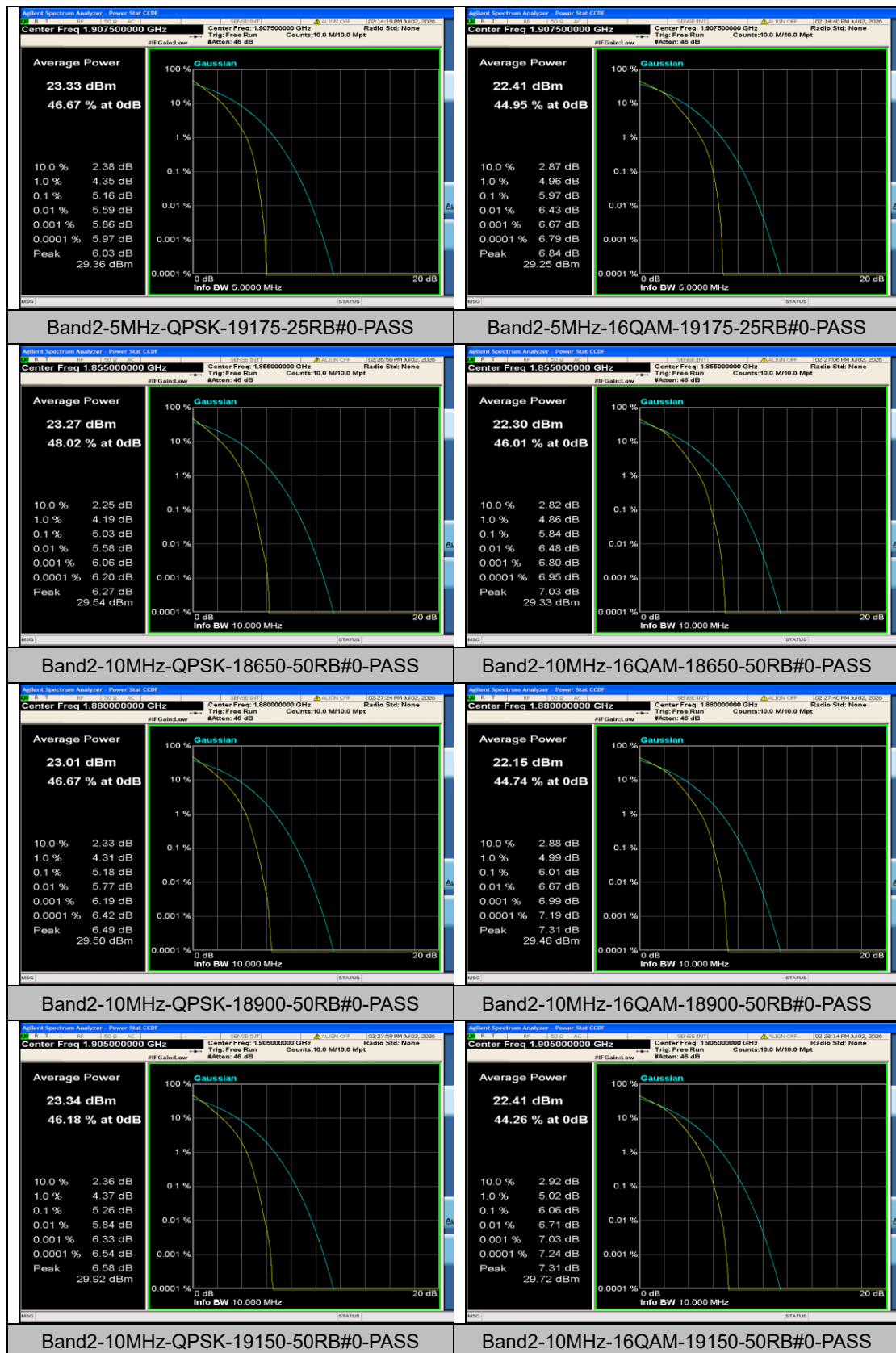
Test Result

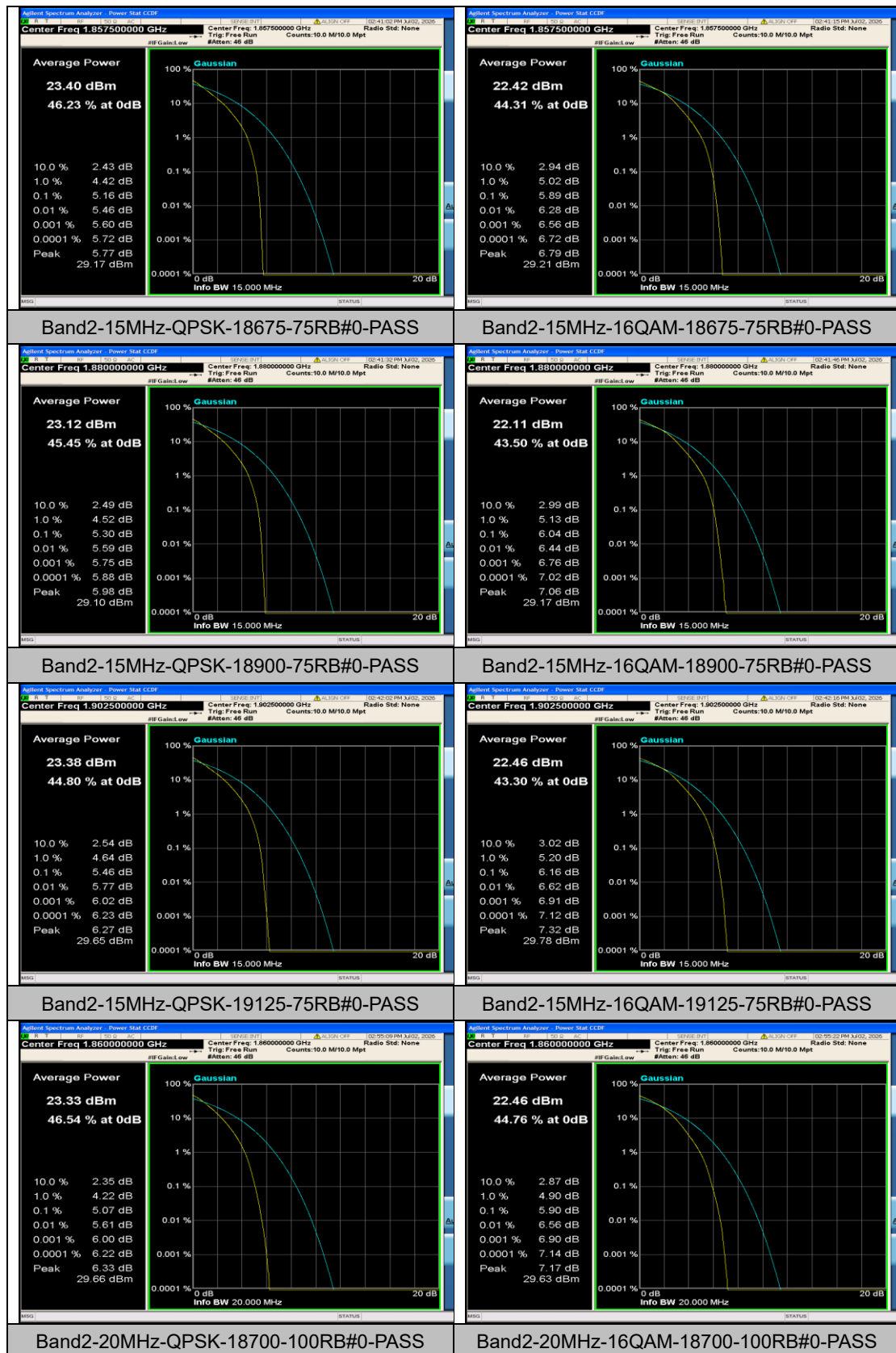
Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band2	1.4MHz	QPSK	18607	6RB#0	5.05	13	PASS
Band2	1.4MHz	16QAM	18607	6RB#0	5.90	13	PASS
Band2	1.4MHz	QPSK	18900	6RB#0	5.20	13	PASS
Band2	1.4MHz	16QAM	18900	6RB#0	6.03	13	PASS
Band2	1.4MHz	QPSK	19193	6RB#0	4.99	13	PASS
Band2	1.4MHz	16QAM	19193	6RB#0	5.81	13	PASS
Band2	3MHz	QPSK	18615	15RB#0	5.18	13	PASS
Band2	3MHz	16QAM	18615	15RB#0	5.96	13	PASS
Band2	3MHz	QPSK	18900	15RB#0	5.26	13	PASS
Band2	3MHz	16QAM	18900	15RB#0	6.05	13	PASS
Band2	3MHz	QPSK	19185	15RB#0	5.14	13	PASS
Band2	3MHz	16QAM	19185	15RB#0	5.94	13	PASS
Band2	5MHz	QPSK	18625	25RB#0	5.14	13	PASS
Band2	5MHz	16QAM	18625	25RB#0	5.91	13	PASS
Band2	5MHz	QPSK	18900	25RB#0	5.25	13	PASS
Band2	5MHz	16QAM	18900	25RB#0	6.04	13	PASS
Band2	5MHz	QPSK	19175	25RB#0	5.16	13	PASS
Band2	5MHz	16QAM	19175	25RB#0	5.97	13	PASS
Band2	10MHz	QPSK	18650	50RB#0	5.03	13	PASS
Band2	10MHz	16QAM	18650	50RB#0	5.84	13	PASS
Band2	10MHz	QPSK	18900	50RB#0	5.18	13	PASS
Band2	10MHz	16QAM	18900	50RB#0	6.01	13	PASS
Band2	10MHz	QPSK	19150	50RB#0	5.26	13	PASS
Band2	10MHz	16QAM	19150	50RB#0	6.06	13	PASS
Band2	15MHz	QPSK	18675	75RB#0	5.16	13	PASS
Band2	15MHz	16QAM	18675	75RB#0	5.89	13	PASS
Band2	15MHz	QPSK	18900	75RB#0	5.30	13	PASS
Band2	15MHz	16QAM	18900	75RB#0	6.04	13	PASS
Band2	15MHz	QPSK	19125	75RB#0	5.46	13	PASS
Band2	15MHz	16QAM	19125	75RB#0	6.16	13	PASS
Band2	20MHz	QPSK	18700	100RB#0	5.07	13	PASS
Band2	20MHz	16QAM	18700	100RB#0	5.90	13	PASS
Band2	20MHz	QPSK	18900	100RB#0	5.11	13	PASS
Band2	20MHz	16QAM	18900	100RB#0	5.96	13	PASS
Band2	20MHz	QPSK	19100	100RB#0	5.36	13	PASS
Band2	20MHz	16QAM	19100	100RB#0	6.10	13	PASS

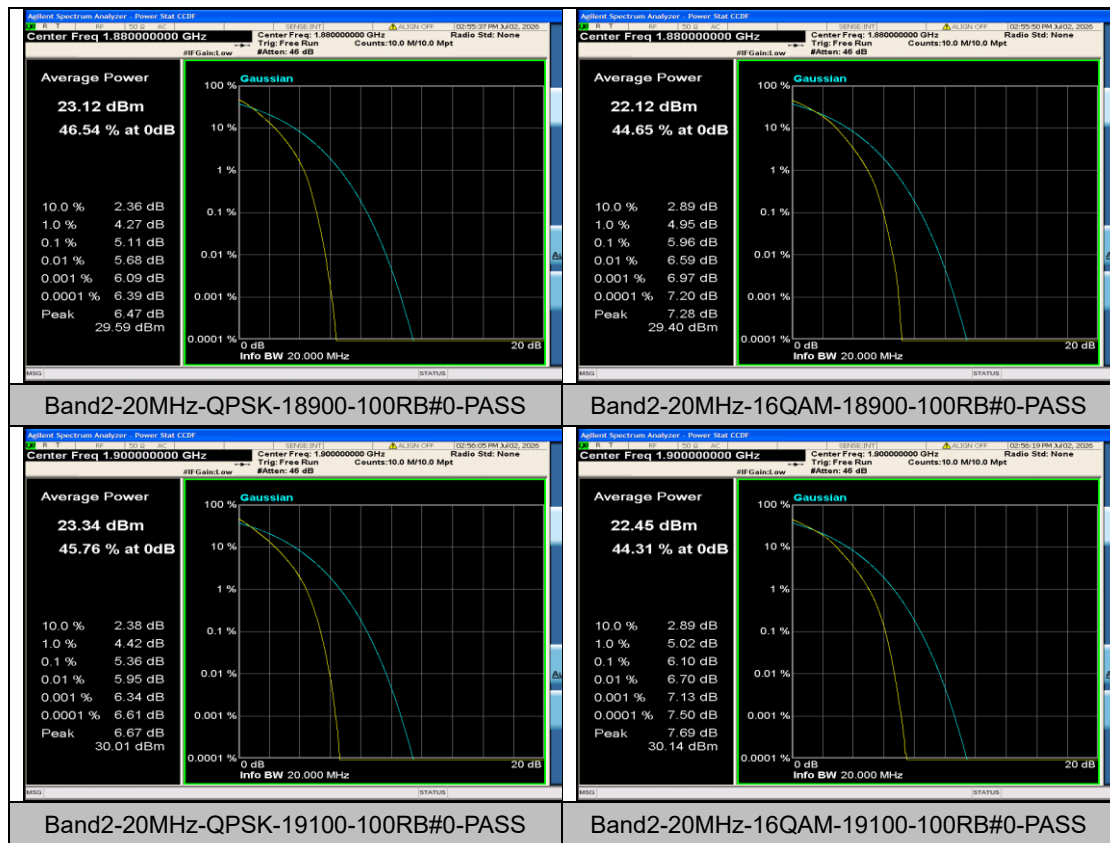
Test Graphs











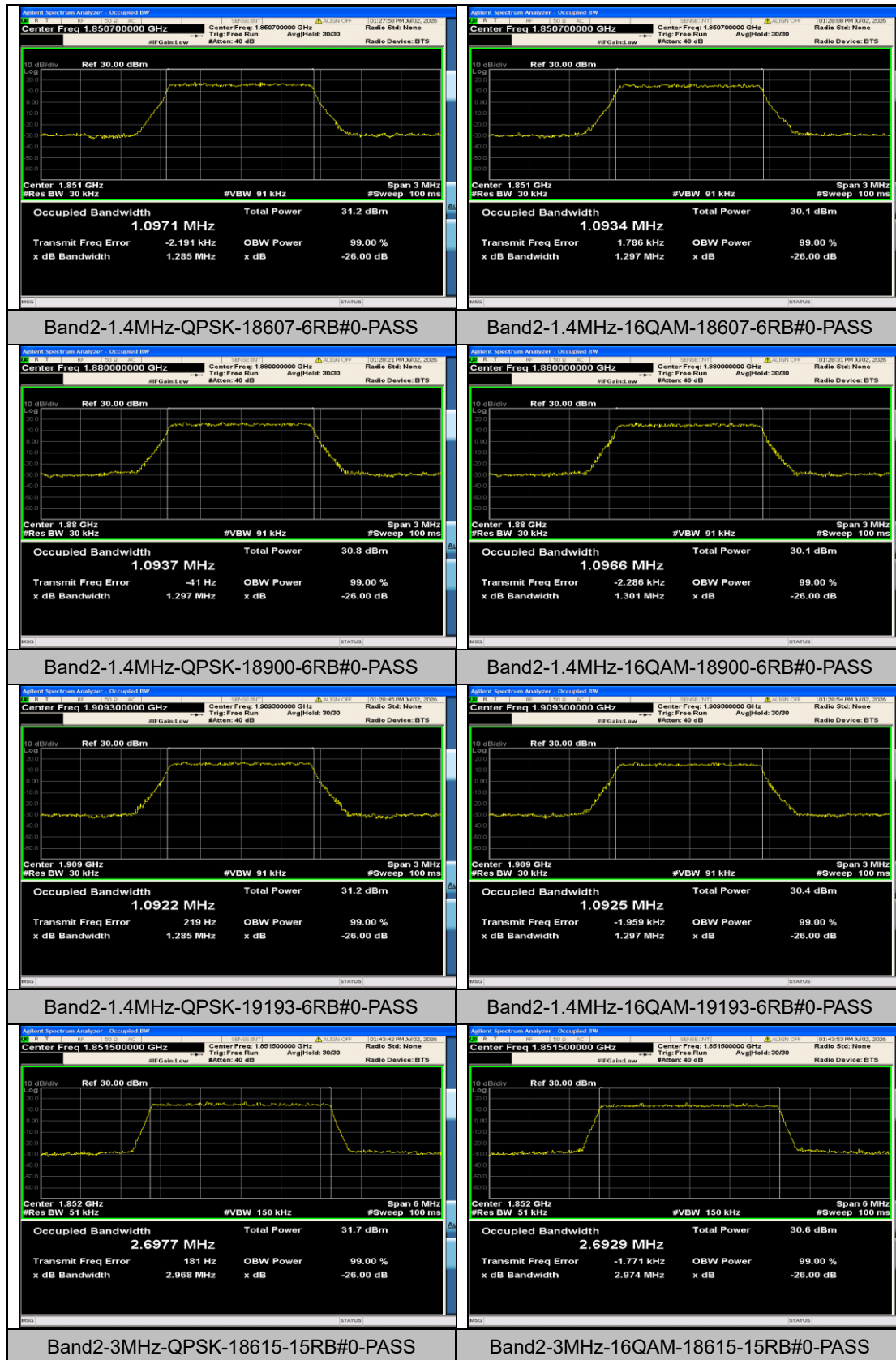
Appendix C: 26dB Bandwidth and Occupied Bandwidth

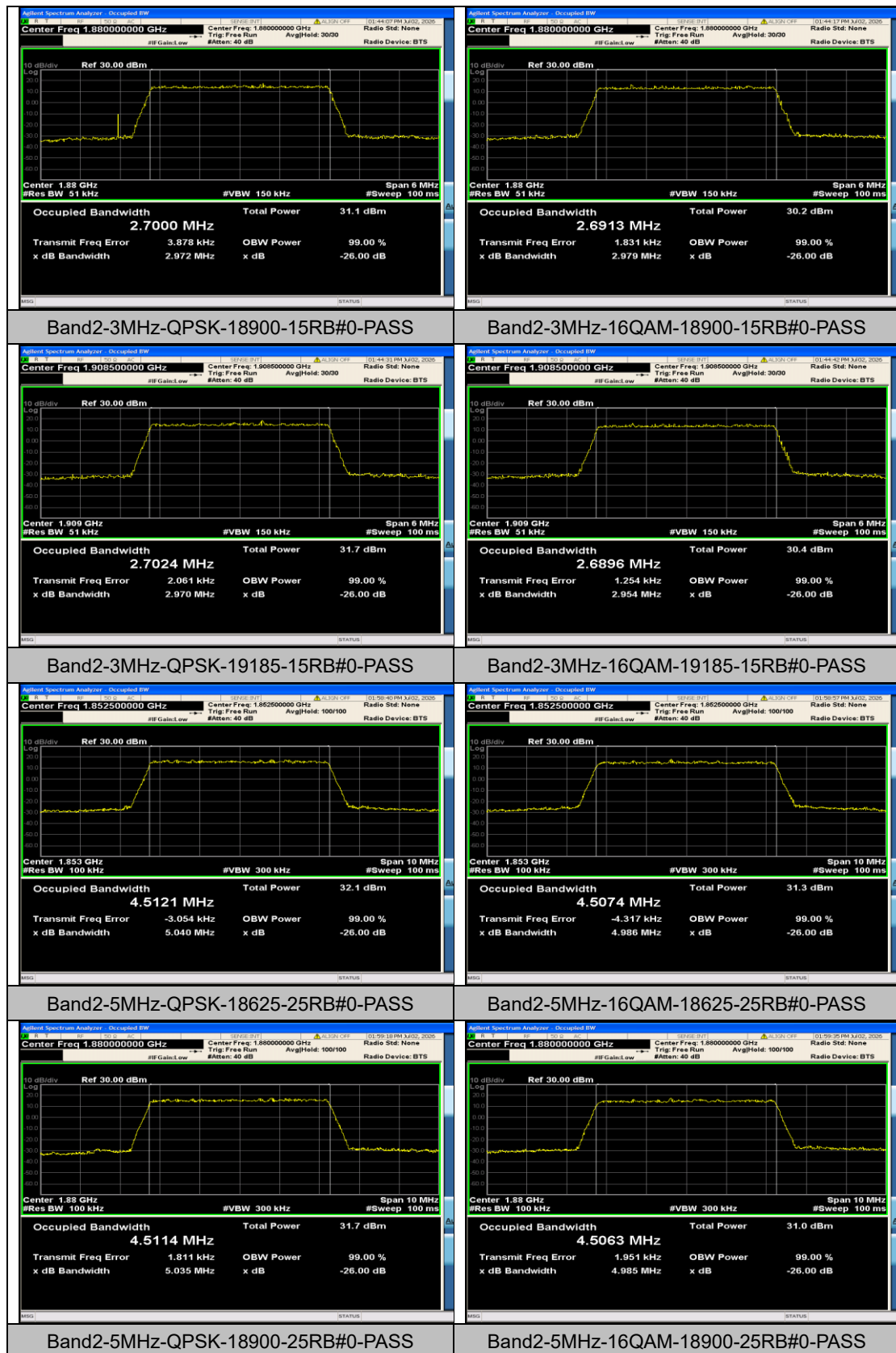
Test Result

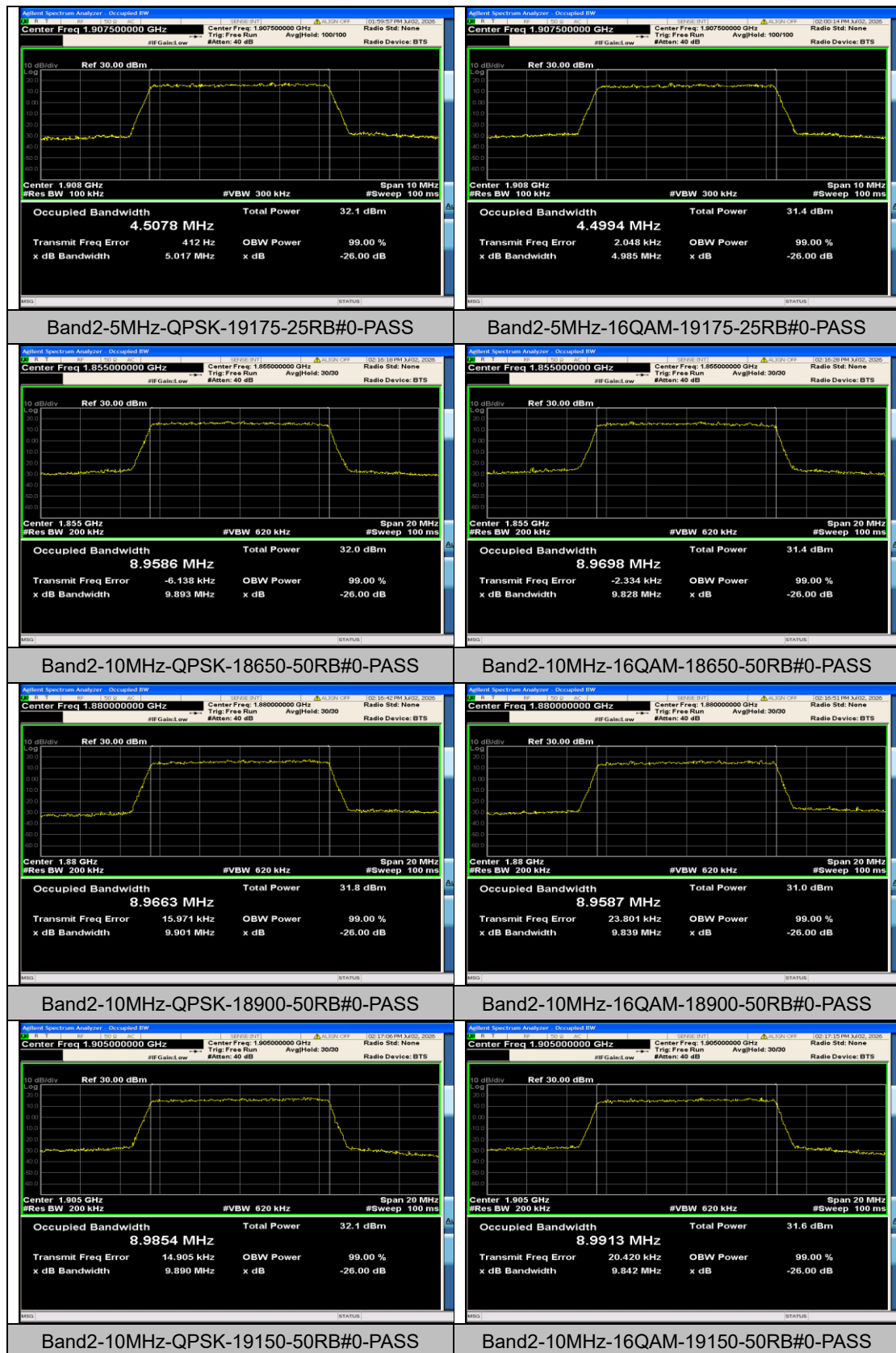
Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band2	1.4MHz	QPSK	18607	6RB#0	1.0971	1.285	PASS
Band2	1.4MHz	16QAM	18607	6RB#0	1.0934	1.297	PASS
Band2	1.4MHz	QPSK	18900	6RB#0	1.0937	1.297	PASS
Band2	1.4MHz	16QAM	18900	6RB#0	1.0966	1.301	PASS
Band2	1.4MHz	QPSK	19193	6RB#0	1.0922	1.285	PASS
Band2	1.4MHz	16QAM	19193	6RB#0	1.0925	1.297	PASS
Band2	3MHz	QPSK	18615	15RB#0	2.6977	2.968	PASS
Band2	3MHz	16QAM	18615	15RB#0	2.6929	2.974	PASS
Band2	3MHz	QPSK	18900	15RB#0	2.7000	2.972	PASS
Band2	3MHz	16QAM	18900	15RB#0	2.6913	2.979	PASS
Band2	3MHz	QPSK	19185	15RB#0	2.7024	2.970	PASS
Band2	3MHz	16QAM	19185	15RB#0	2.6896	2.954	PASS
Band2	5MHz	QPSK	18625	25RB#0	4.5121	5.040	PASS
Band2	5MHz	16QAM	18625	25RB#0	4.5074	4.986	PASS
Band2	5MHz	QPSK	18900	25RB#0	4.5114	5.035	PASS
Band2	5MHz	16QAM	18900	25RB#0	4.5063	4.985	PASS
Band2	5MHz	QPSK	19175	25RB#0	4.5078	5.017	PASS
Band2	5MHz	16QAM	19175	25RB#0	4.4994	4.985	PASS
Band2	10MHz	QPSK	18650	50RB#0	8.9586	9.893	PASS
Band2	10MHz	16QAM	18650	50RB#0	8.9698	9.828	PASS
Band2	10MHz	QPSK	18900	50RB#0	8.9663	9.901	PASS
Band2	10MHz	16QAM	18900	50RB#0	8.9587	9.839	PASS
Band2	10MHz	QPSK	19150	50RB#0	8.9854	9.890	PASS
Band2	10MHz	16QAM	19150	50RB#0	8.9913	9.842	PASS
Band2	15MHz	QPSK	18675	75RB#0	13.430	14.71	PASS
Band2	15MHz	16QAM	18675	75RB#0	13.444	14.65	PASS
Band2	15MHz	QPSK	18900	75RB#0	13.464	14.73	PASS
Band2	15MHz	16QAM	18900	75RB#0	13.450	14.73	PASS
Band2	15MHz	QPSK	19125	75RB#0	13.519	14.82	PASS
Band2	15MHz	16QAM	19125	75RB#0	13.481	14.73	PASS
Band2	20MHz	QPSK	18700	100RB#0	17.863	19.44	PASS
Band2	20MHz	16QAM	18700	100RB#0	17.915	19.42	PASS
Band2	20MHz	QPSK	18900	100RB#0	17.924	19.38	PASS
Band2	20MHz	16QAM	18900	100RB#0	17.876	19.38	PASS

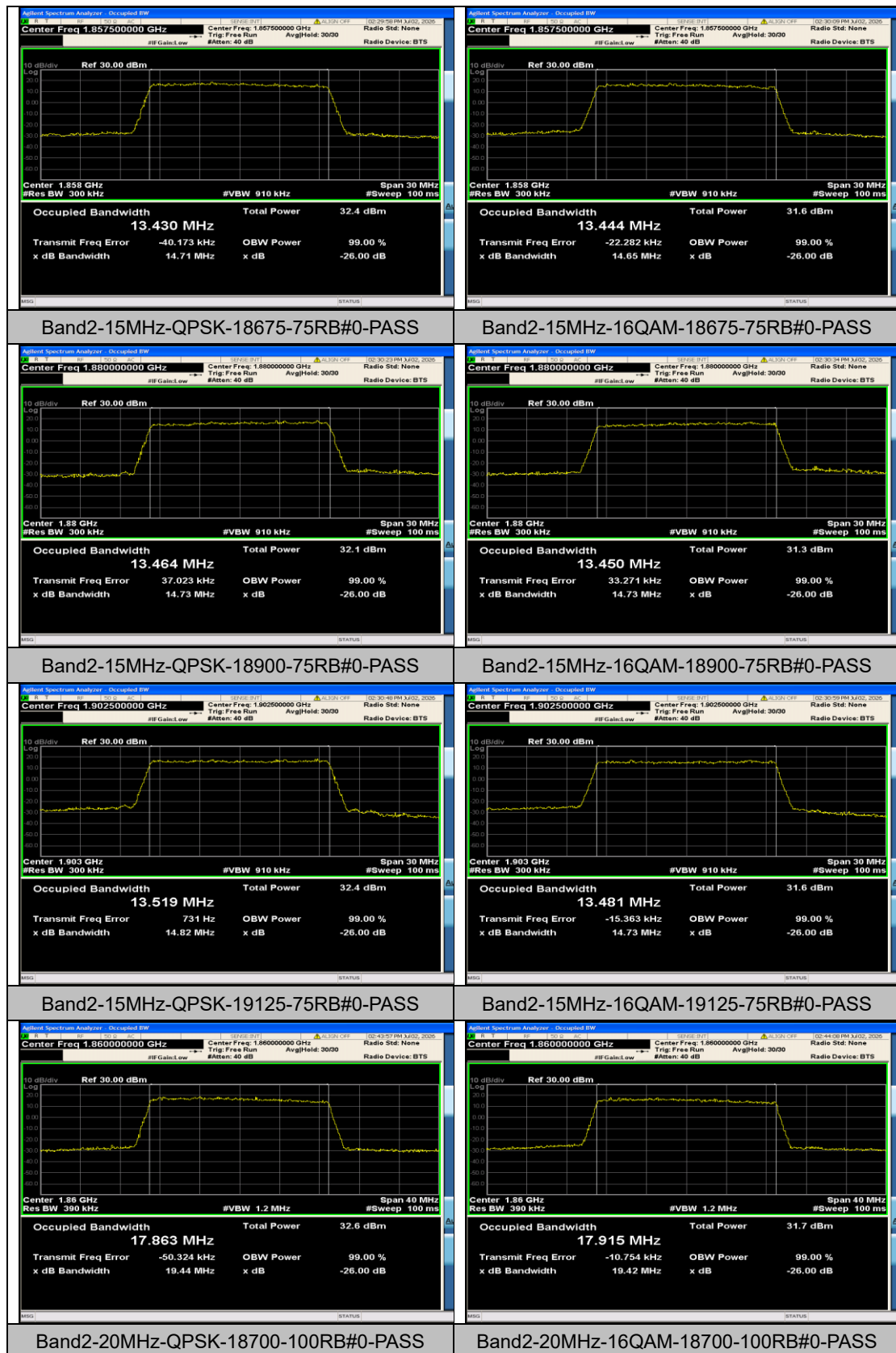
Band2	20MHz	QPSK	19100	100RB#0	17.987	19.63	PASS
Band2	20MHz	16QAM	19100	100RB#0	17.965	19.52	PASS

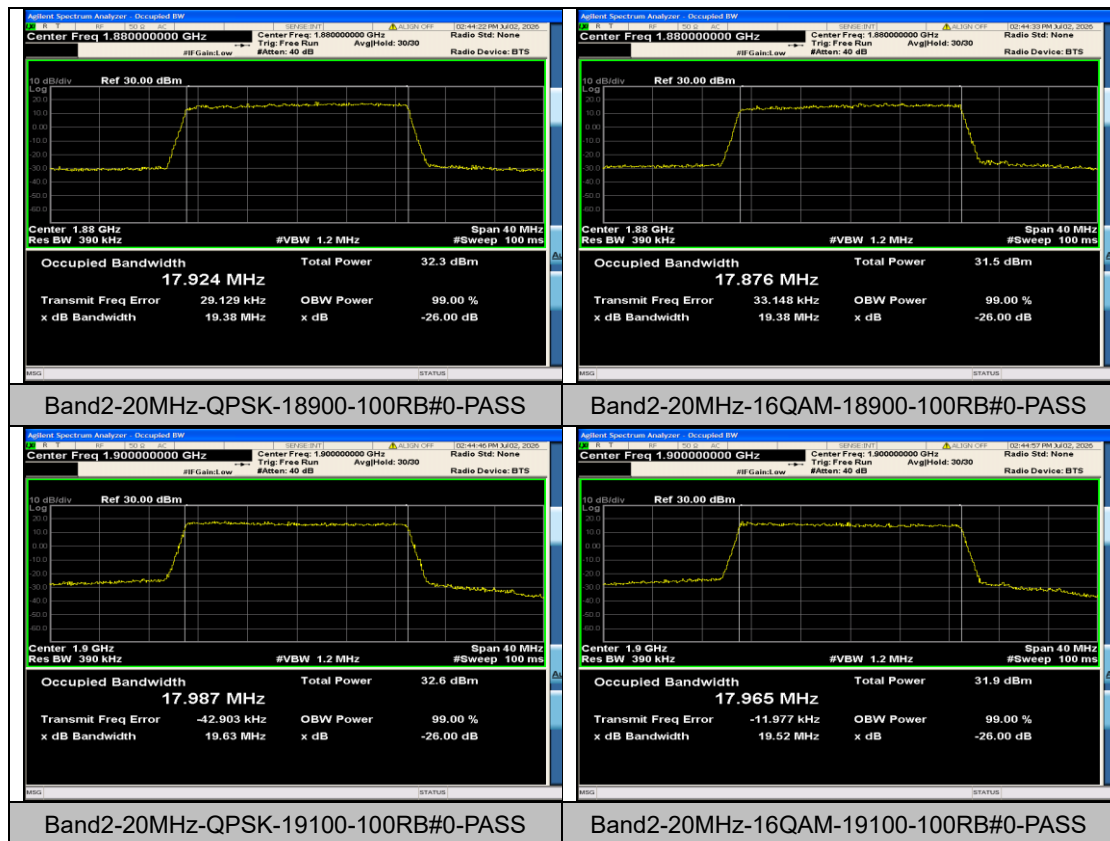
Test Graphs









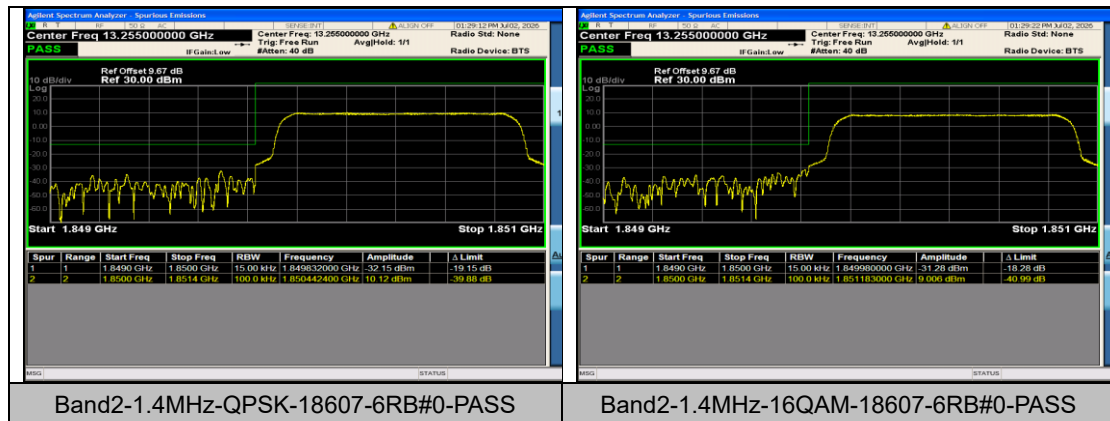


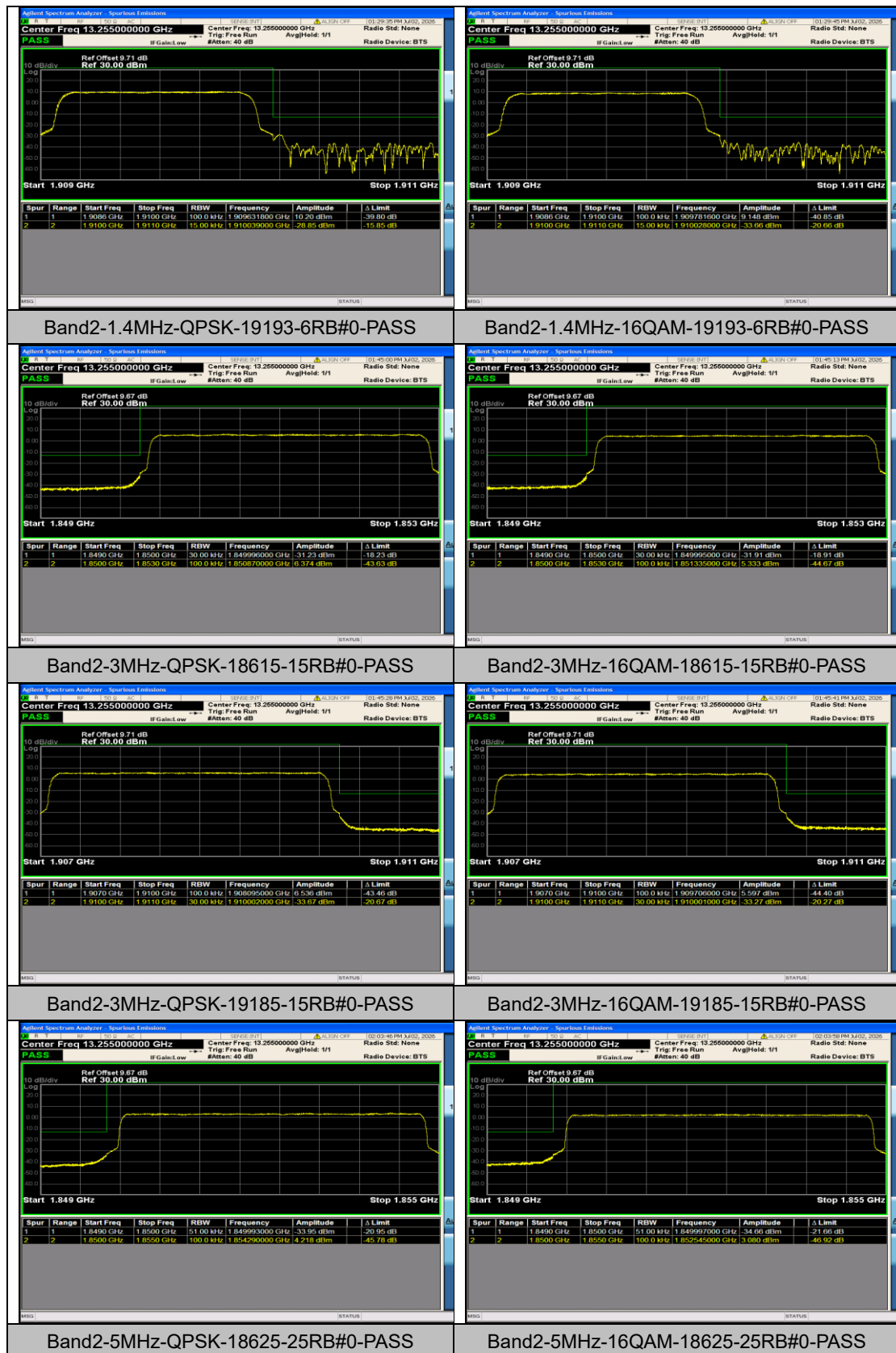
Appendix D: Band Edge

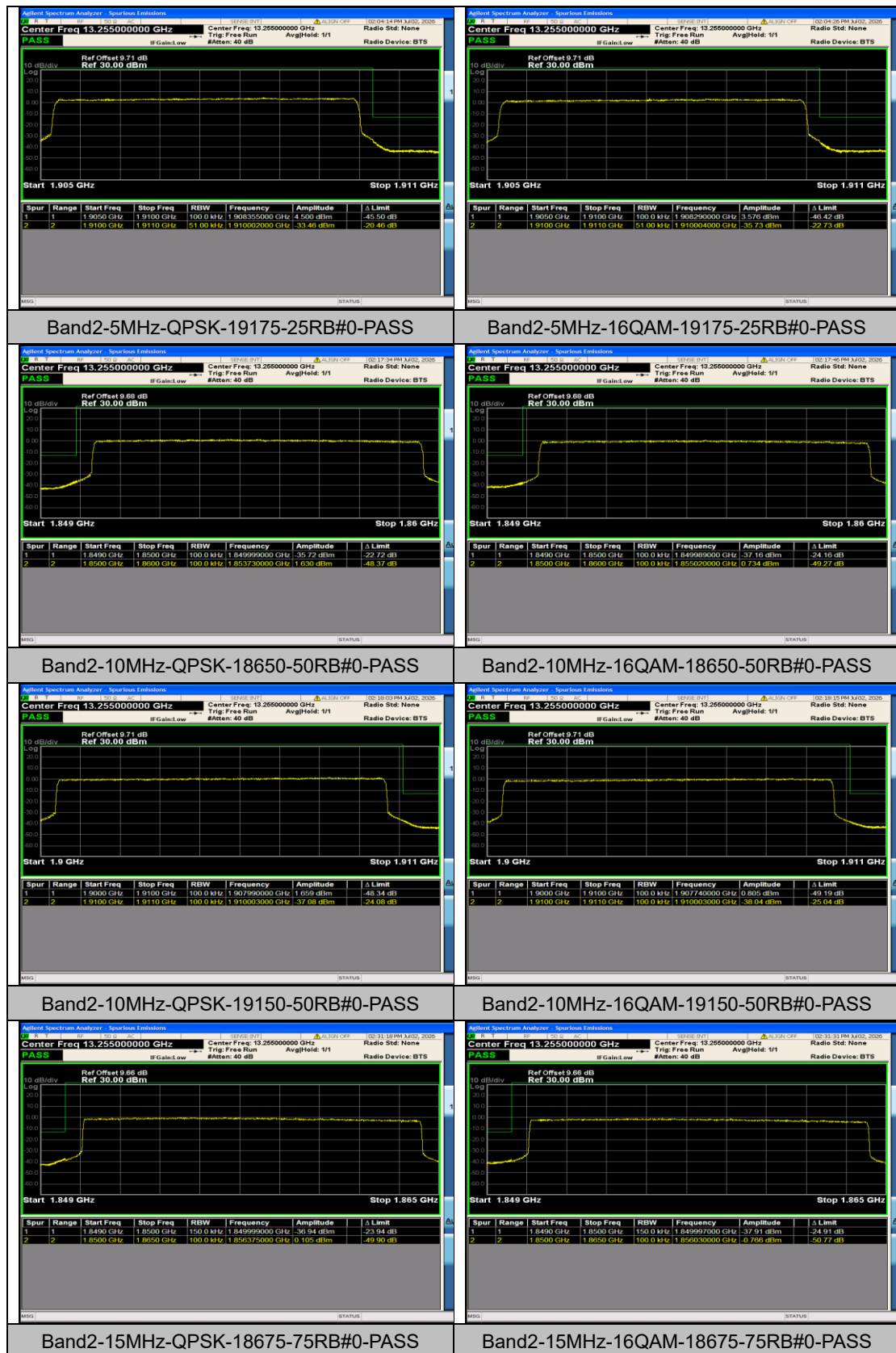
Test Result

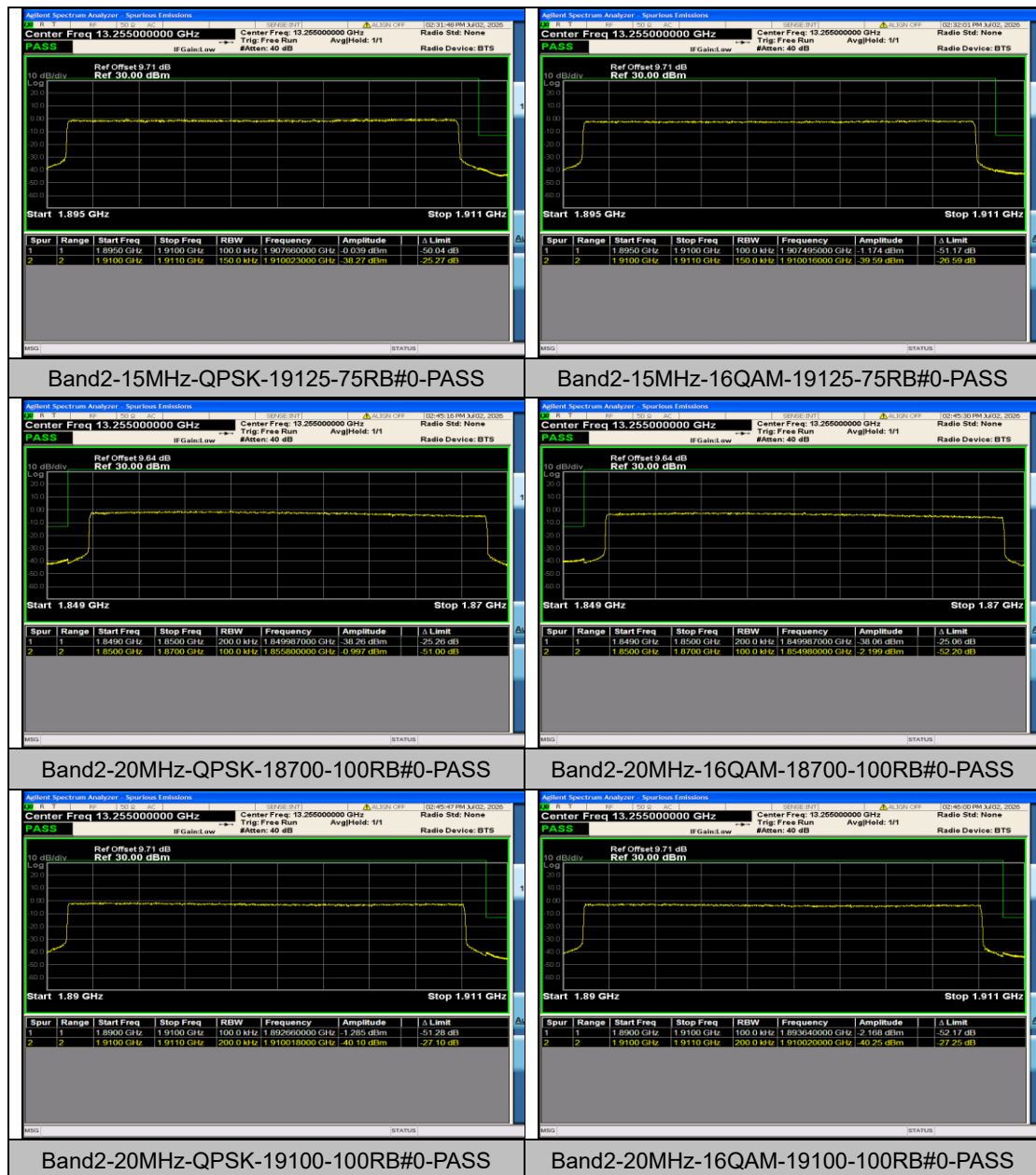
Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band2	1.4MHz	QPSK	18607	6RB#0	-32.15	PASS
Band2	1.4MHz	16QAM	18607	6RB#0	-31.28	PASS
Band2	1.4MHz	QPSK	19193	6RB#0	-28.85	PASS
Band2	1.4MHz	16QAM	19193	6RB#0	-33.66	PASS
Band2	3MHz	QPSK	18615	15RB#0	-31.23	PASS
Band2	3MHz	16QAM	18615	15RB#0	-31.91	PASS
Band2	3MHz	QPSK	19185	15RB#0	-33.67	PASS
Band2	3MHz	16QAM	19185	15RB#0	-33.27	PASS
Band2	5MHz	QPSK	18625	25RB#0	-33.95	PASS
Band2	5MHz	16QAM	18625	25RB#0	-34.66	PASS
Band2	5MHz	QPSK	19175	25RB#0	-33.46	PASS
Band2	5MHz	16QAM	19175	25RB#0	-35.73	PASS
Band2	10MHz	QPSK	18650	50RB#0	-35.72	PASS
Band2	10MHz	16QAM	18650	50RB#0	-37.16	PASS
Band2	10MHz	QPSK	19150	50RB#0	-37.08	PASS
Band2	10MHz	16QAM	19150	50RB#0	-38.04	PASS
Band2	15MHz	QPSK	18675	75RB#0	-36.94	PASS
Band2	15MHz	16QAM	18675	75RB#0	-37.91	PASS
Band2	15MHz	QPSK	19125	75RB#0	-38.27	PASS
Band2	15MHz	16QAM	19125	75RB#0	-39.59	PASS
Band2	20MHz	QPSK	18700	100RB#0	-38.26	PASS
Band2	20MHz	16QAM	18700	100RB#0	-38.06	PASS
Band2	20MHz	QPSK	19100	100RB#0	-40.10	PASS
Band2	20MHz	16QAM	19100	100RB#0	-40.25	PASS

Test Graphs









Appendix E: Conducted Spurious Emission

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Frequency Range	Result (dBm)	Verdict
Band2	1.4MHz	QPSK	18607	6RB#0	0.009~0.15	-58.17	PASS
Band2	1.4MHz	QPSK	18607	6RB#0	0.15~30	-53.22	PASS
Band2	1.4MHz	QPSK	18607	6RB#0	30~1000	-57.38	PASS
Band2	1.4MHz	QPSK	18607	6RB#0	1000~3000	-26.38	PASS
Band2	1.4MHz	QPSK	18607	6RB#0	3000~20000	-38.79	PASS
Band2	1.4MHz	16QAM	18607	6RB#0	0.009~0.15	-59.61	PASS
Band2	1.4MHz	16QAM	18607	6RB#0	0.15~30	-51.70	PASS
Band2	1.4MHz	16QAM	18607	6RB#0	30~1000	-58.28	PASS
Band2	1.4MHz	16QAM	18607	6RB#0	1000~3000	-27.19	PASS
Band2	1.4MHz	16QAM	18607	6RB#0	3000~20000	-38.79	PASS
Band2	1.4MHz	QPSK	18900	6RB#0	0.009~0.15	-60.42	PASS
Band2	1.4MHz	QPSK	18900	6RB#0	0.15~30	-52.03	PASS
Band2	1.4MHz	QPSK	18900	6RB#0	30~1000	-58.37	PASS
Band2	1.4MHz	QPSK	18900	6RB#0	1000~3000	-48.02	PASS
Band2	1.4MHz	QPSK	18900	6RB#0	3000~20000	-38.54	PASS
Band2	1.4MHz	16QAM	18900	6RB#0	0.009~0.15	-58.64	PASS
Band2	1.4MHz	16QAM	18900	6RB#0	0.15~30	-53.22	PASS
Band2	1.4MHz	16QAM	18900	6RB#0	30~1000	-57.78	PASS
Band2	1.4MHz	16QAM	18900	6RB#0	1000~3000	-48.30	PASS
Band2	1.4MHz	16QAM	18900	6RB#0	3000~20000	-38.62	PASS
Band2	1.4MHz	QPSK	19193	6RB#0	0.009~0.15	-58.52	PASS
Band2	1.4MHz	QPSK	19193	6RB#0	0.15~30	-53.95	PASS
Band2	1.4MHz	QPSK	19193	6RB#0	30~1000	-57.81	PASS
Band2	1.4MHz	QPSK	19193	6RB#0	1000~3000	-27.68	PASS
Band2	1.4MHz	QPSK	19193	6RB#0	3000~20000	-38.40	PASS
Band2	1.4MHz	16QAM	19193	6RB#0	0.009~0.15	-60.47	PASS
Band2	1.4MHz	16QAM	19193	6RB#0	0.15~30	-50.85	PASS
Band2	1.4MHz	16QAM	19193	6RB#0	30~1000	-58.17	PASS
Band2	1.4MHz	16QAM	19193	6RB#0	1000~3000	-28.23	PASS
Band2	1.4MHz	16QAM	19193	6RB#0	3000~20000	-38.58	PASS
Band2	3MHz	QPSK	18615	15RB#0	0.009~0.15	-60.14	PASS
Band2	3MHz	QPSK	18615	15RB#0	0.15~30	-50.86	PASS
Band2	3MHz	QPSK	18615	15RB#0	30~1000	-58.29	PASS
Band2	3MHz	QPSK	18615	15RB#0	1000~3000	-23.65	PASS
Band2	3MHz	QPSK	18615	15RB#0	3000~20000	-38.70	PASS
Band2	3MHz	16QAM	18615	15RB#0	0.009~0.15	-58.38	PASS

Band2	3MHz	16QAM	18615	15RB#0	0.15~30	-52.97	PASS
Band2	3MHz	16QAM	18615	15RB#0	30~1000	-57.69	PASS
Band2	3MHz	16QAM	18615	15RB#0	1000~3000	-25.92	PASS
Band2	3MHz	16QAM	18615	15RB#0	3000~20000	-38.66	PASS
Band2	3MHz	QPSK	18900	15RB#0	0.009~0.15	-59.35	PASS
Band2	3MHz	QPSK	18900	15RB#0	0.15~30	-50.85	PASS
Band2	3MHz	QPSK	18900	15RB#0	30~1000	-58.58	PASS
Band2	3MHz	QPSK	18900	15RB#0	1000~3000	-48.09	PASS
Band2	3MHz	QPSK	18900	15RB#0	3000~20000	-38.74	PASS
Band2	3MHz	16QAM	18900	15RB#0	0.009~0.15	-60.41	PASS
Band2	3MHz	16QAM	18900	15RB#0	0.15~30	-51.88	PASS
Band2	3MHz	16QAM	18900	15RB#0	30~1000	-57.94	PASS
Band2	3MHz	16QAM	18900	15RB#0	1000~3000	-48.22	PASS
Band2	3MHz	16QAM	18900	15RB#0	3000~20000	-38.83	PASS
Band2	3MHz	QPSK	19185	15RB#0	0.009~0.15	-60.20	PASS
Band2	3MHz	QPSK	19185	15RB#0	0.15~30	-51.23	PASS
Band2	3MHz	QPSK	19185	15RB#0	30~1000	-58.04	PASS
Band2	3MHz	QPSK	19185	15RB#0	1000~3000	-27.23	PASS
Band2	3MHz	QPSK	19185	15RB#0	3000~20000	-38.81	PASS
Band2	3MHz	16QAM	19185	15RB#0	0.009~0.15	-59.98	PASS
Band2	3MHz	16QAM	19185	15RB#0	0.15~30	-51.65	PASS
Band2	3MHz	16QAM	19185	15RB#0	30~1000	-57.97	PASS
Band2	3MHz	16QAM	19185	15RB#0	1000~3000	-27.63	PASS
Band2	3MHz	16QAM	19185	15RB#0	3000~20000	-38.42	PASS
Band2	5MHz	QPSK	18625	25RB#0	0.009~0.15	-59.12	PASS
Band2	5MHz	QPSK	18625	25RB#0	0.15~30	-51.13	PASS
Band2	5MHz	QPSK	18625	25RB#0	30~1000	-57.89	PASS
Band2	5MHz	QPSK	18625	25RB#0	1000~3000	-27.64	PASS
Band2	5MHz	QPSK	18625	25RB#0	3000~20000	-38.49	PASS
Band2	5MHz	16QAM	18625	25RB#0	0.009~0.15	-60.00	PASS
Band2	5MHz	16QAM	18625	25RB#0	0.15~30	-51.20	PASS
Band2	5MHz	16QAM	18625	25RB#0	30~1000	-58.44	PASS
Band2	5MHz	16QAM	18625	25RB#0	1000~3000	-26.70	PASS
Band2	5MHz	16QAM	18625	25RB#0	3000~20000	-38.44	PASS
Band2	5MHz	QPSK	18900	25RB#0	0.009~0.15	-59.85	PASS
Band2	5MHz	QPSK	18900	25RB#0	0.15~30	-50.70	PASS
Band2	5MHz	QPSK	18900	25RB#0	30~1000	-58.12	PASS
Band2	5MHz	QPSK	18900	25RB#0	1000~3000	-47.93	PASS
Band2	5MHz	QPSK	18900	25RB#0	3000~20000	-38.56	PASS
Band2	5MHz	16QAM	18900	25RB#0	0.009~0.15	-59.17	PASS
Band2	5MHz	16QAM	18900	25RB#0	0.15~30	-50.35	PASS
Band2	5MHz	16QAM	18900	25RB#0	30~1000	-58.03	PASS
Band2	5MHz	16QAM	18900	25RB#0	1000~3000	-47.79	PASS