

FCC LTE Band Test Data

FCC ID : 2BMB5-RL553

Company: : GUBIA TECHNOLOGY LIMITED

EUT : 4G LTE Wireless Router

Model Number : RL553

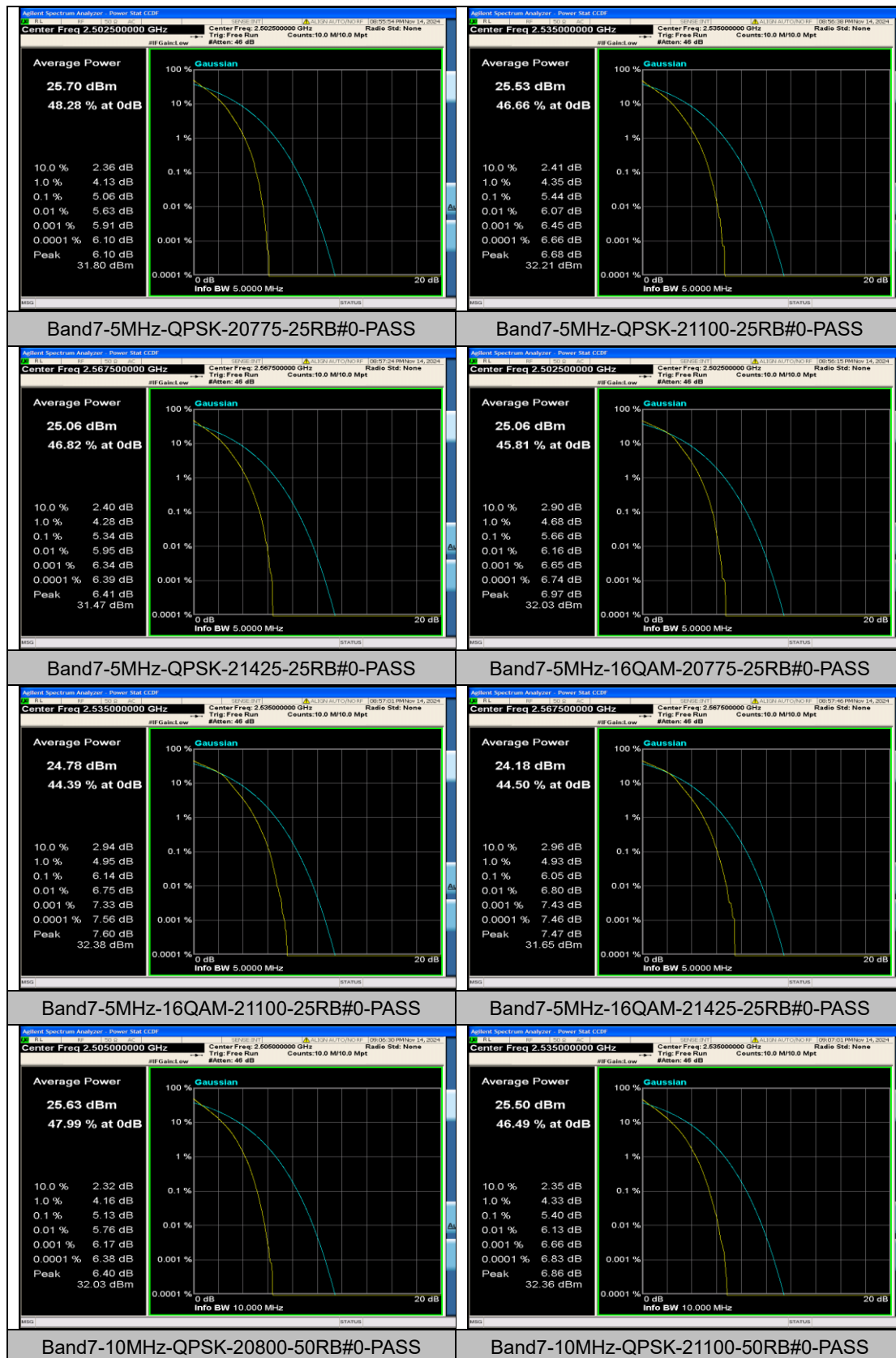
Reviewed By : Eric Wang

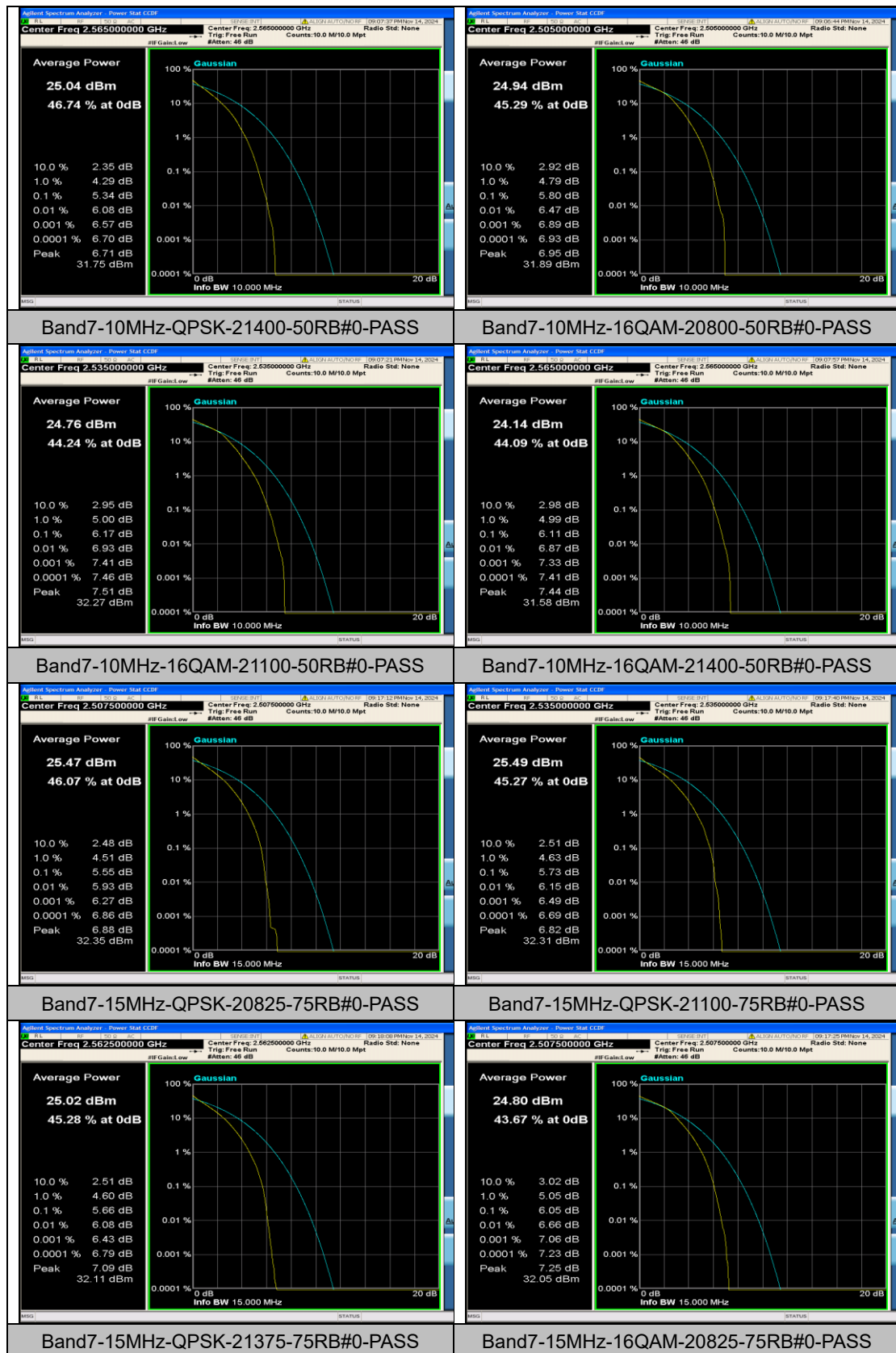
Appendix B: Peak-to-Average Ratio(CCDF)

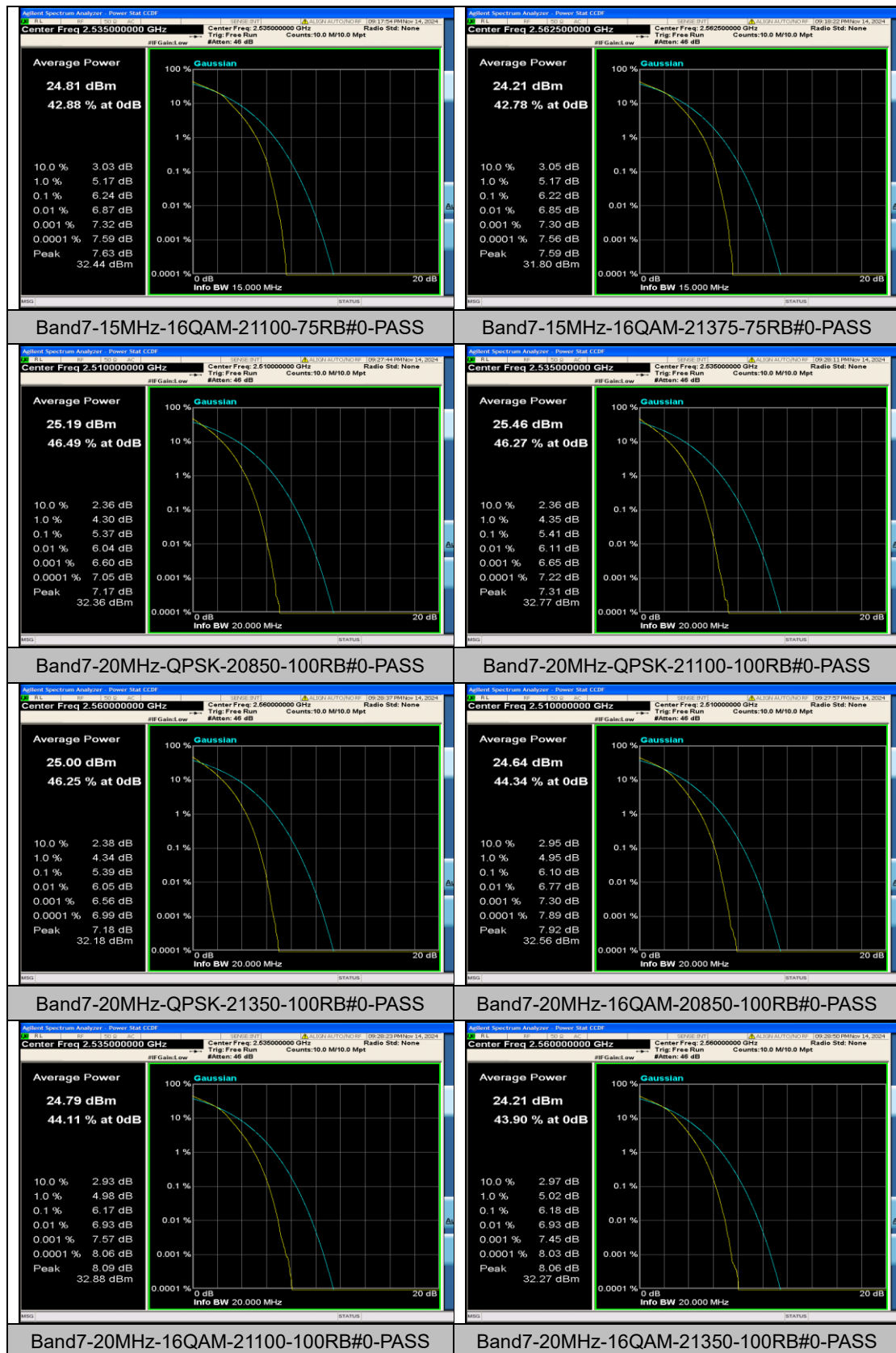
Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band7	5MHz	QPSK	20775	25RB#0	5.06	13	PASS
Band7	5MHz	QPSK	21100	25RB#0	5.44	13	PASS
Band7	5MHz	QPSK	21425	25RB#0	5.34	13	PASS
Band7	5MHz	16QAM	20775	25RB#0	5.66	13	PASS
Band7	5MHz	16QAM	21100	25RB#0	6.14	13	PASS
Band7	5MHz	16QAM	21425	25RB#0	6.05	13	PASS
Band7	10MHz	QPSK	20800	50RB#0	5.13	13	PASS
Band7	10MHz	QPSK	21100	50RB#0	5.40	13	PASS
Band7	10MHz	QPSK	21400	50RB#0	5.34	13	PASS
Band7	10MHz	16QAM	20800	50RB#0	5.80	13	PASS
Band7	10MHz	16QAM	21100	50RB#0	6.17	13	PASS
Band7	10MHz	16QAM	21400	50RB#0	6.11	13	PASS
Band7	15MHz	QPSK	20825	75RB#0	5.55	13	PASS
Band7	15MHz	QPSK	21100	75RB#0	5.73	13	PASS
Band7	15MHz	QPSK	21375	75RB#0	5.66	13	PASS
Band7	15MHz	16QAM	20825	75RB#0	6.05	13	PASS
Band7	15MHz	16QAM	21100	75RB#0	6.24	13	PASS
Band7	15MHz	16QAM	21375	75RB#0	6.22	13	PASS
Band7	20MHz	QPSK	20850	100RB#0	5.37	13	PASS
Band7	20MHz	QPSK	21100	100RB#0	5.41	13	PASS
Band7	20MHz	QPSK	21350	100RB#0	5.39	13	PASS
Band7	20MHz	16QAM	20850	100RB#0	6.10	13	PASS
Band7	20MHz	16QAM	21100	100RB#0	6.17	13	PASS
Band7	20MHz	16QAM	21350	100RB#0	6.18	13	PASS

Test Graphs





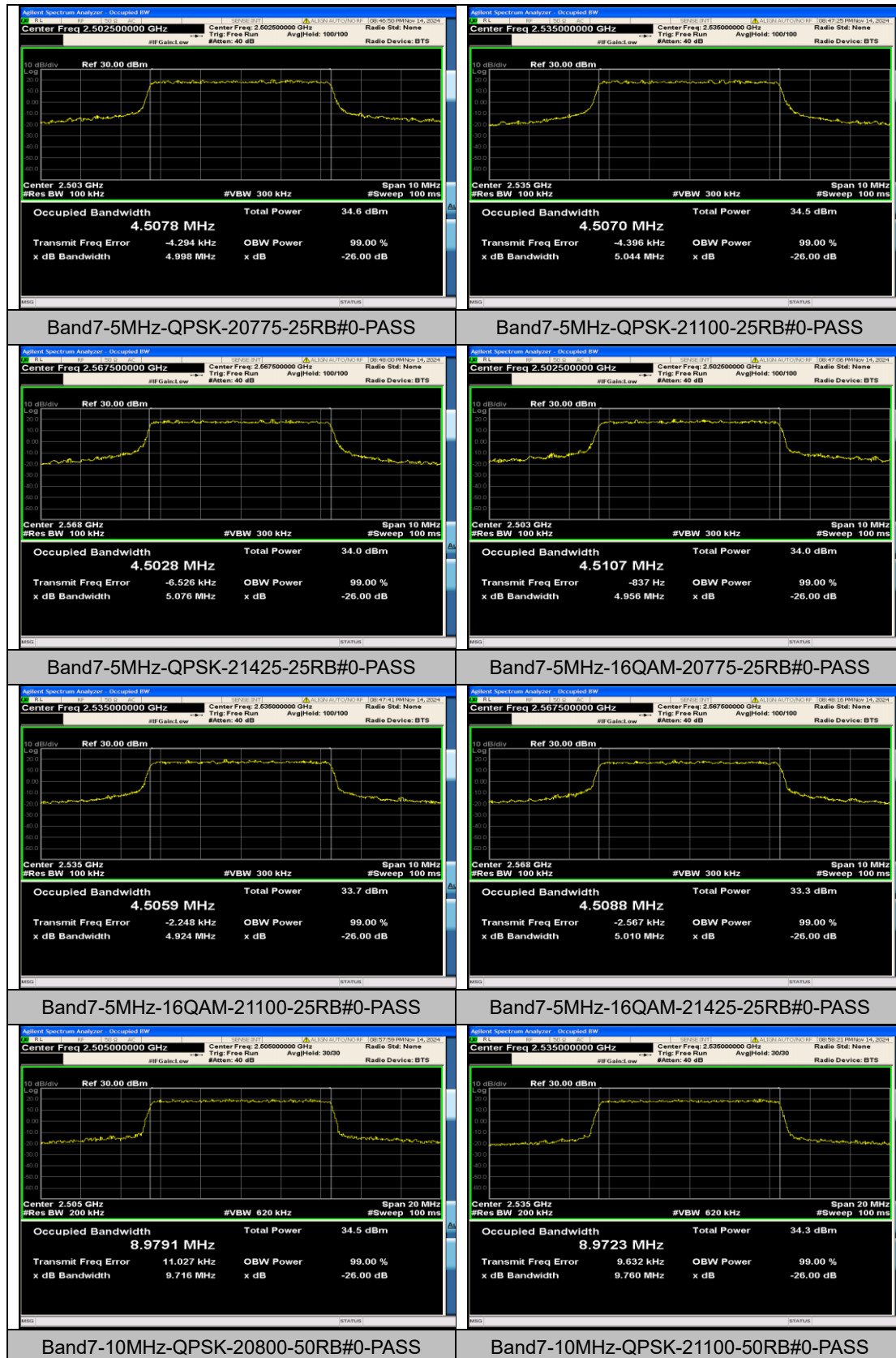


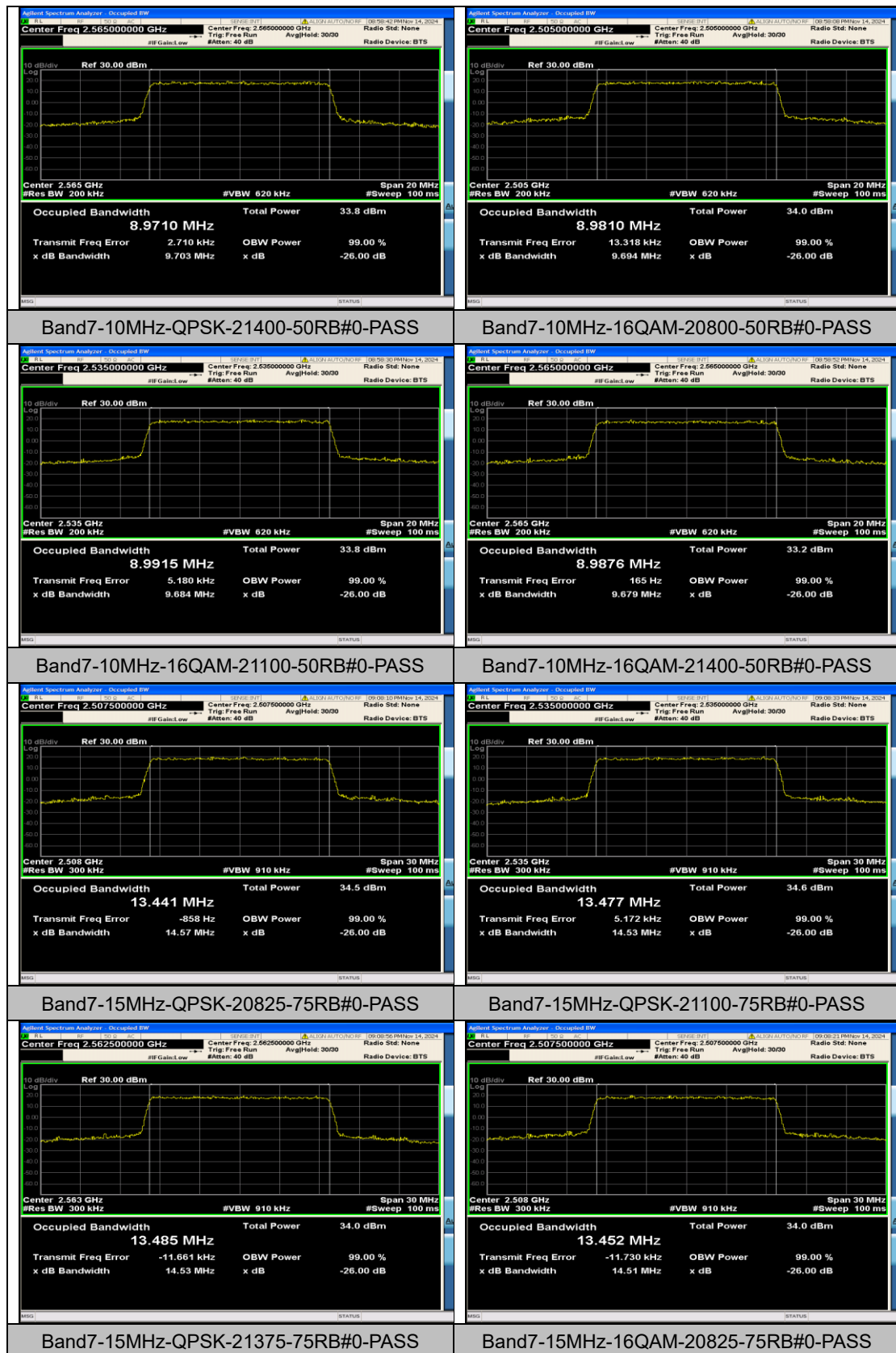
Appendix C: 26dB Bandwidth and Occupied Bandwidth

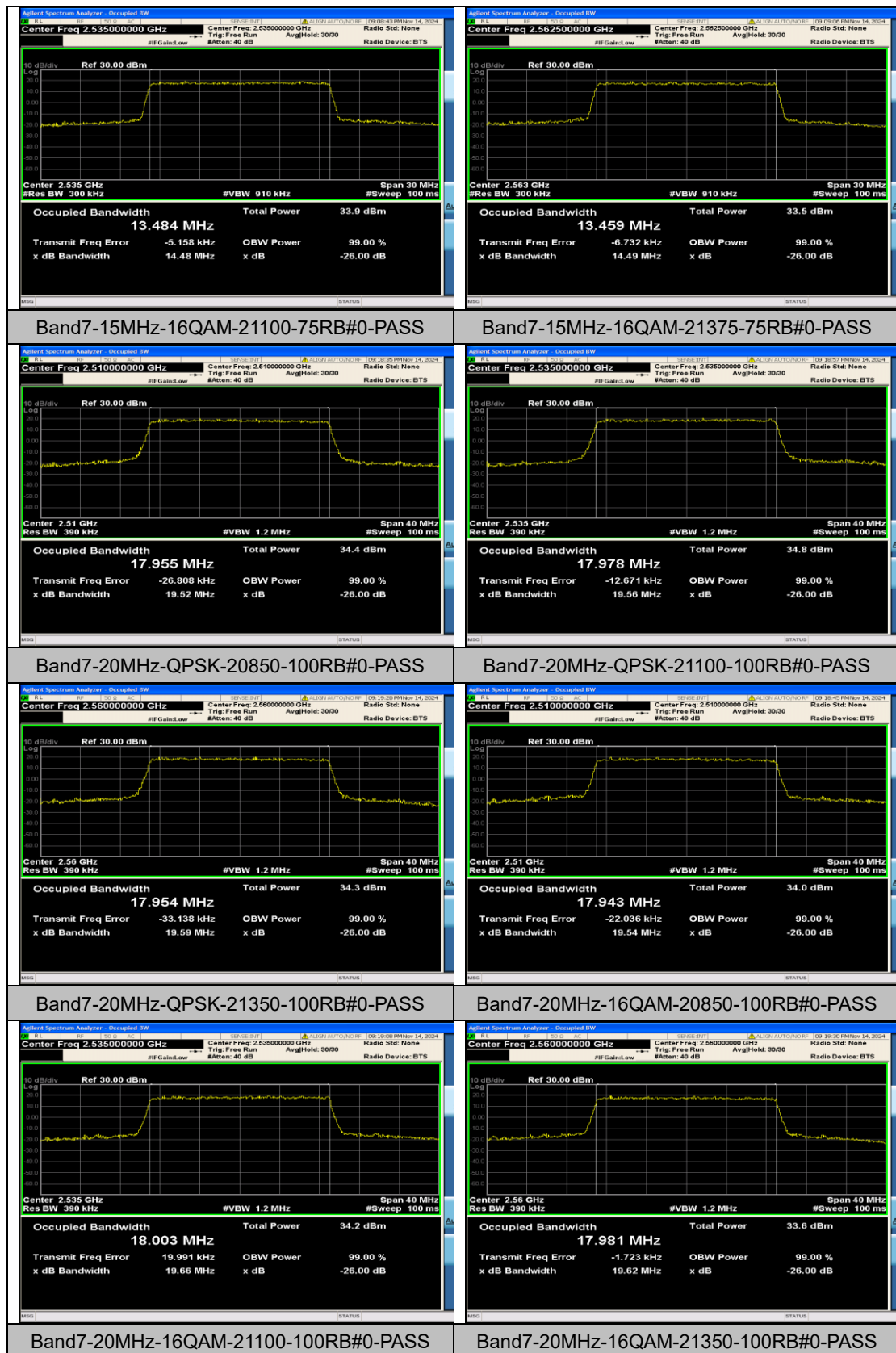
Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band7	5MHz	QPSK	20775	25RB#0	4.5078	4.998	PASS
Band7	5MHz	QPSK	21100	25RB#0	4.5070	5.044	PASS
Band7	5MHz	QPSK	21425	25RB#0	4.5028	5.076	PASS
Band7	5MHz	16QAM	20775	25RB#0	4.5107	4.956	PASS
Band7	5MHz	16QAM	21100	25RB#0	4.5059	4.924	PASS
Band7	5MHz	16QAM	21425	25RB#0	4.5088	5.010	PASS
Band7	10MHz	QPSK	20800	50RB#0	8.9791	9.716	PASS
Band7	10MHz	QPSK	21100	50RB#0	8.9723	9.760	PASS
Band7	10MHz	QPSK	21400	50RB#0	8.9710	9.703	PASS
Band7	10MHz	16QAM	20800	50RB#0	8.9810	9.694	PASS
Band7	10MHz	16QAM	21100	50RB#0	8.9915	9.684	PASS
Band7	10MHz	16QAM	21400	50RB#0	8.9876	9.679	PASS
Band7	15MHz	QPSK	20825	75RB#0	13.441	14.57	PASS
Band7	15MHz	QPSK	21100	75RB#0	13.477	14.53	PASS
Band7	15MHz	QPSK	21375	75RB#0	13.485	14.53	PASS
Band7	15MHz	16QAM	20825	75RB#0	13.452	14.51	PASS
Band7	15MHz	16QAM	21100	75RB#0	13.484	14.48	PASS
Band7	15MHz	16QAM	21375	75RB#0	13.459	14.49	PASS
Band7	20MHz	QPSK	20850	100RB#0	17.955	19.52	PASS
Band7	20MHz	QPSK	21100	100RB#0	17.978	19.56	PASS
Band7	20MHz	QPSK	21350	100RB#0	17.954	19.59	PASS
Band7	20MHz	16QAM	20850	100RB#0	17.943	19.54	PASS
Band7	20MHz	16QAM	21100	100RB#0	18.003	19.66	PASS
Band7	20MHz	16QAM	21350	100RB#0	17.981	19.62	PASS

Test Graphs





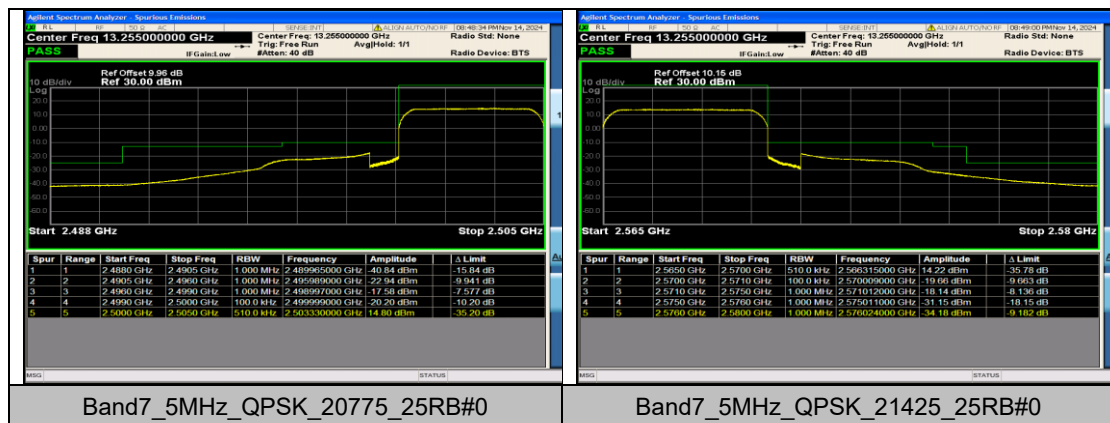


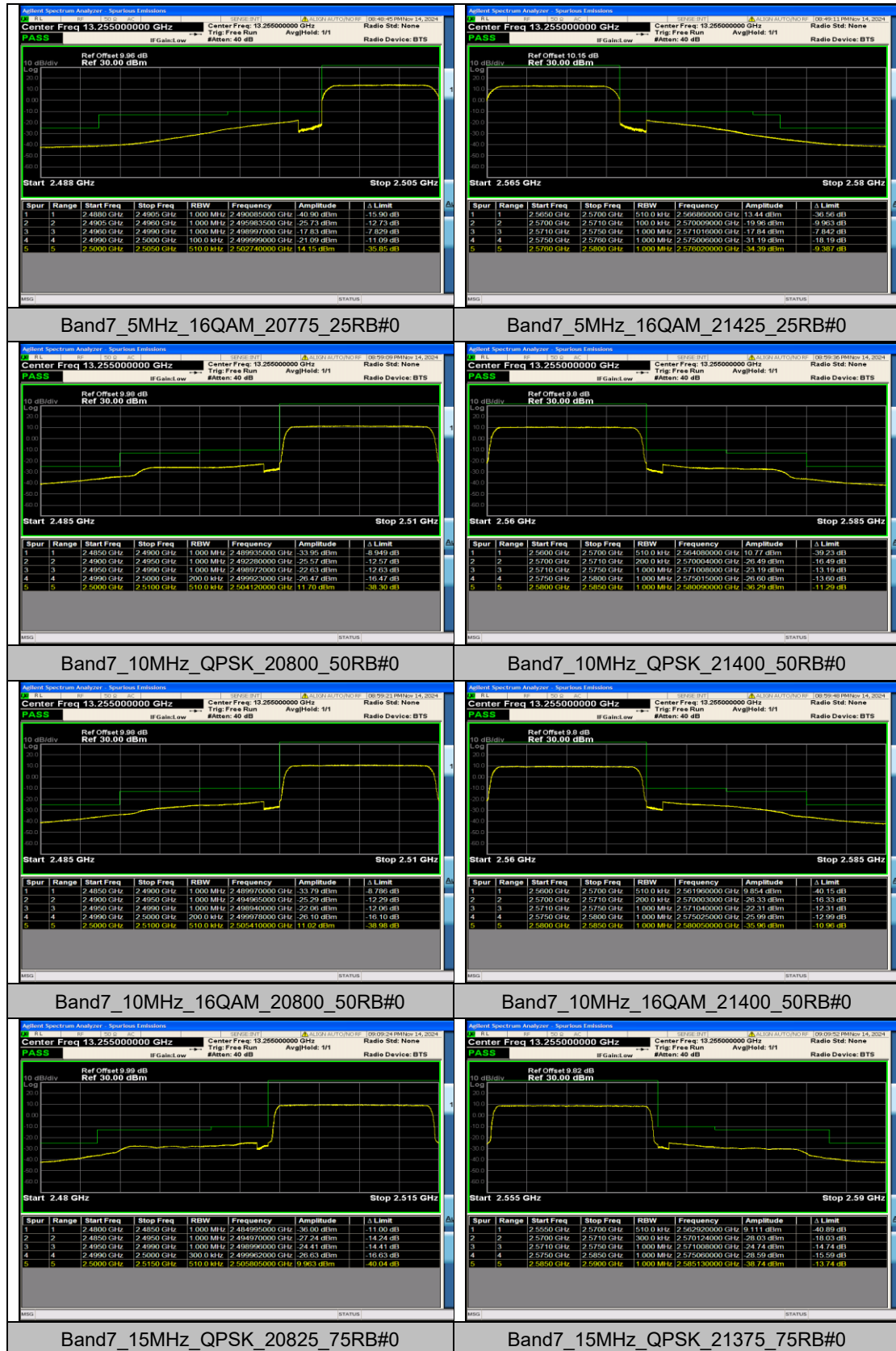
Appendix D: Band Edge

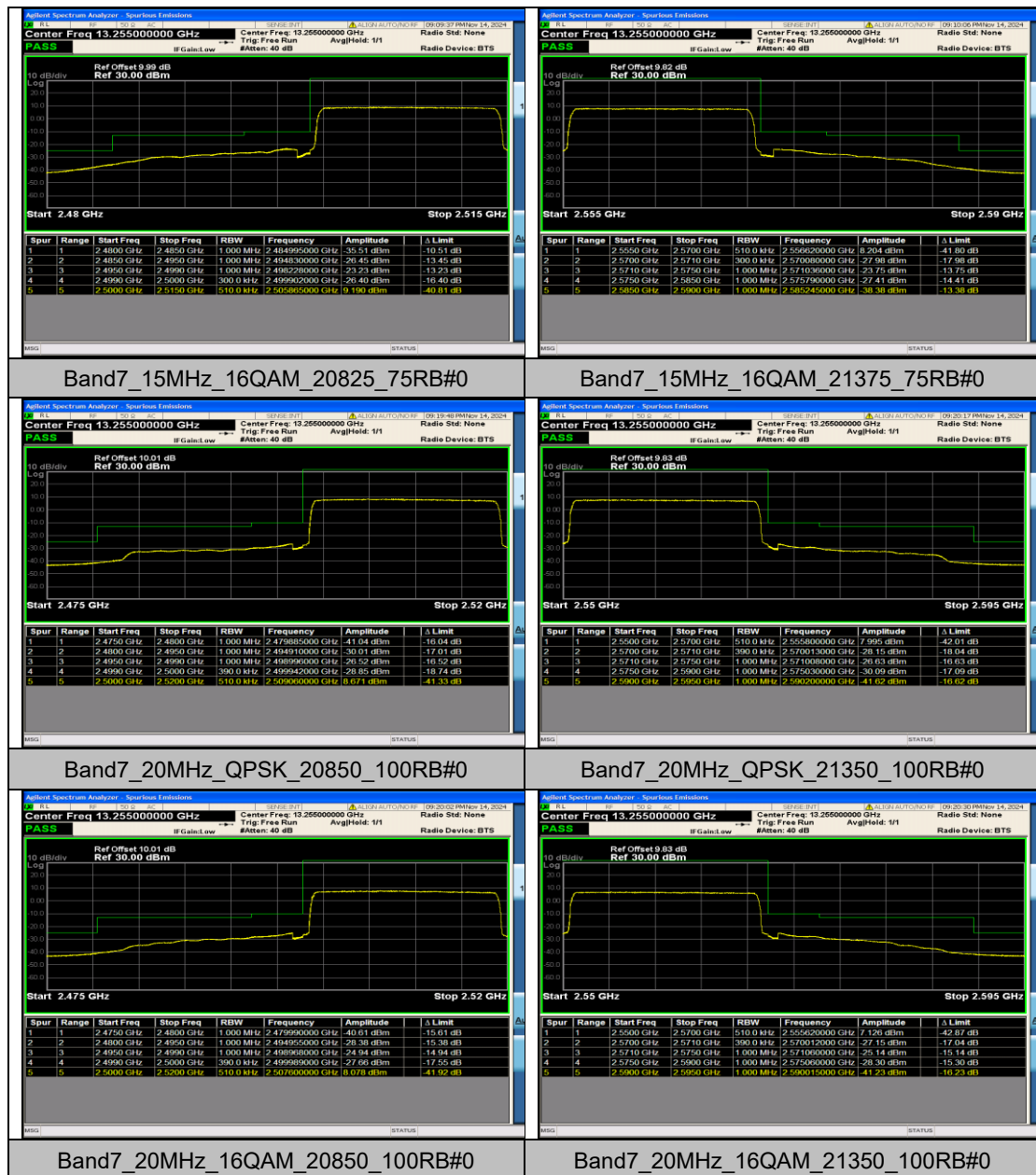
Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band7	5MHz	QPSK	20775	25RB#0	-17.58	PASS
Band7	5MHz	QPSK	21425	25RB#0	-18.14	PASS
Band7	5MHz	16QAM	20775	25RB#0	-17.83	PASS
Band7	5MHz	16QAM	21425	25RB#0	-17.84	PASS
Band7	10MHz	QPSK	20800	50RB#0	-33.95	PASS
Band7	10MHz	QPSK	21400	50RB#0	-36.29	PASS
Band7	10MHz	16QAM	20800	50RB#0	-33.79	PASS
Band7	10MHz	16QAM	21400	50RB#0	-35.96	PASS
Band7	15MHz	QPSK	20825	75RB#0	-36.00	PASS
Band7	15MHz	QPSK	21375	75RB#0	-38.74	PASS
Band7	15MHz	16QAM	20825	75RB#0	-35.51	PASS
Band7	15MHz	16QAM	21375	75RB#0	-38.38	PASS
Band7	20MHz	QPSK	20850	100RB#0	-41.04	PASS
Band7	20MHz	QPSK	21350	100RB#0	-41.62	PASS
Band7	20MHz	16QAM	20850	100RB#0	-24.94	PASS
Band7	20MHz	16QAM	21350	100RB#0	-25.14	PASS

Test Graphs







Appendix E: Conducted Spurious Emission

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Frequency Range	Result (dBm)	Verdict
Band7	5MHz	QPSK	20775	25RB#0	0.009~0.15	-72.94	PASS
Band7	5MHz	QPSK	20775	25RB#0	0.15~30	-63.94	PASS
Band7	5MHz	QPSK	20775	25RB#0	30~1000	-61.91	PASS
Band7	5MHz	QPSK	20775	25RB#0	1000~20000	-35.84	PASS
Band7	5MHz	QPSK	20775	25RB#0	20000~27000	-30.89	PASS
Band7	5MHz	QPSK	21100	25RB#0	0.009~0.15	-72.57	PASS
Band7	5MHz	QPSK	21100	25RB#0	0.15~30	-64.90	PASS
Band7	5MHz	QPSK	21100	25RB#0	30~1000	-62.06	PASS
Band7	5MHz	QPSK	21100	25RB#0	1000~20000	-36.82	PASS
Band7	5MHz	QPSK	21100	25RB#0	20000~27000	-31.06	PASS
Band7	5MHz	QPSK	21425	25RB#0	0.009~0.15	-70.10	PASS
Band7	5MHz	QPSK	21425	25RB#0	0.15~30	-63.57	PASS
Band7	5MHz	QPSK	21425	25RB#0	30~1000	-61.96	PASS
Band7	5MHz	QPSK	21425	25RB#0	1000~20000	-36.76	PASS
Band7	5MHz	QPSK	21425	25RB#0	20000~27000	-31.43	PASS
Band7	5MHz	16QAM	20775	25RB#0	0.009~0.15	-72.98	PASS
Band7	5MHz	16QAM	20775	25RB#0	0.15~30	-64.18	PASS
Band7	5MHz	16QAM	20775	25RB#0	30~1000	-61.82	PASS
Band7	5MHz	16QAM	20775	25RB#0	1000~20000	-37.83	PASS
Band7	5MHz	16QAM	20775	25RB#0	20000~27000	-31.22	PASS
Band7	5MHz	16QAM	21100	25RB#0	0.009~0.15	-74.06	PASS
Band7	5MHz	16QAM	21100	25RB#0	0.15~30	-64.32	PASS
Band7	5MHz	16QAM	21100	25RB#0	30~1000	-62.00	PASS
Band7	5MHz	16QAM	21100	25RB#0	1000~20000	-37.75	PASS
Band7	5MHz	16QAM	21100	25RB#0	20000~27000	-31.07	PASS
Band7	5MHz	16QAM	21425	25RB#0	0.009~0.15	-76.96	PASS
Band7	5MHz	16QAM	21425	25RB#0	0.15~30	-64.45	PASS
Band7	5MHz	16QAM	21425	25RB#0	30~1000	-61.82	PASS
Band7	5MHz	16QAM	21425	25RB#0	1000~20000	-37.86	PASS
Band7	5MHz	16QAM	21425	25RB#0	20000~27000	-31.02	PASS
Band7	10MHz	QPSK	20800	50RB#0	0.009~0.15	-73.65	PASS
Band7	10MHz	QPSK	20800	50RB#0	0.15~30	-62.69	PASS
Band7	10MHz	QPSK	20800	50RB#0	30~1000	-62.12	PASS
Band7	10MHz	QPSK	20800	50RB#0	1000~20000	-37.47	PASS
Band7	10MHz	QPSK	20800	50RB#0	20000~27000	-31.51	PASS
Band7	10MHz	QPSK	21100	50RB#0	0.009~0.15	-74.89	PASS

Band7	10MHz	QPSK	21100	50RB#0	0.15~30	-60.23	PASS
Band7	10MHz	QPSK	21100	50RB#0	30~1000	-62.00	PASS
Band7	10MHz	QPSK	21100	50RB#0	1000~20000	-37.40	PASS
Band7	10MHz	QPSK	21100	50RB#0	20000~27000	-31.25	PASS
Band7	10MHz	QPSK	21400	50RB#0	0.009~0.15	-71.59	PASS
Band7	10MHz	QPSK	21400	50RB#0	0.15~30	-63.72	PASS
Band7	10MHz	QPSK	21400	50RB#0	30~1000	-61.78	PASS
Band7	10MHz	QPSK	21400	50RB#0	1000~20000	-37.68	PASS
Band7	10MHz	QPSK	21400	50RB#0	20000~27000	-31.03	PASS
Band7	10MHz	16QAM	20800	50RB#0	0.009~0.15	-72.99	PASS
Band7	10MHz	16QAM	20800	50RB#0	0.15~30	-64.28	PASS
Band7	10MHz	16QAM	20800	50RB#0	30~1000	-61.72	PASS
Band7	10MHz	16QAM	20800	50RB#0	1000~20000	-37.84	PASS
Band7	10MHz	16QAM	20800	50RB#0	20000~27000	-31.19	PASS
Band7	10MHz	16QAM	21100	50RB#0	0.009~0.15	-72.70	PASS
Band7	10MHz	16QAM	21100	50RB#0	0.15~30	-62.21	PASS
Band7	10MHz	16QAM	21100	50RB#0	30~1000	-61.99	PASS
Band7	10MHz	16QAM	21100	50RB#0	1000~20000	-38.01	PASS
Band7	10MHz	16QAM	21100	50RB#0	20000~27000	-31.27	PASS
Band7	10MHz	16QAM	21400	50RB#0	0.009~0.15	-73.30	PASS
Band7	10MHz	16QAM	21400	50RB#0	0.15~30	-64.31	PASS
Band7	10MHz	16QAM	21400	50RB#0	30~1000	-61.61	PASS
Band7	10MHz	16QAM	21400	50RB#0	1000~20000	-37.57	PASS
Band7	10MHz	16QAM	21400	50RB#0	20000~27000	-31.26	PASS
Band7	15MHz	QPSK	20825	75RB#0	0.009~0.15	-73.16	PASS
Band7	15MHz	QPSK	20825	75RB#0	0.15~30	-64.85	PASS
Band7	15MHz	QPSK	20825	75RB#0	30~1000	-61.98	PASS
Band7	15MHz	QPSK	20825	75RB#0	1000~20000	-37.90	PASS
Band7	15MHz	QPSK	20825	75RB#0	20000~27000	-31.27	PASS
Band7	15MHz	QPSK	21100	75RB#0	0.009~0.15	-72.86	PASS
Band7	15MHz	QPSK	21100	75RB#0	0.15~30	-63.94	PASS
Band7	15MHz	QPSK	21100	75RB#0	30~1000	-61.73	PASS
Band7	15MHz	QPSK	21100	75RB#0	1000~20000	-37.99	PASS
Band7	15MHz	QPSK	21100	75RB#0	20000~27000	-31.34	PASS
Band7	15MHz	QPSK	21375	75RB#0	0.009~0.15	-70.14	PASS
Band7	15MHz	QPSK	21375	75RB#0	0.15~30	-65.23	PASS
Band7	15MHz	QPSK	21375	75RB#0	30~1000	-61.53	PASS
Band7	15MHz	QPSK	21375	75RB#0	1000~20000	-37.70	PASS
Band7	15MHz	QPSK	21375	75RB#0	20000~27000	-31.42	PASS
Band7	15MHz	16QAM	20825	75RB#0	0.009~0.15	-73.92	PASS
Band7	15MHz	16QAM	20825	75RB#0	0.15~30	-62.47	PASS
Band7	15MHz	16QAM	20825	75RB#0	30~1000	-62.02	PASS
Band7	15MHz	16QAM	20825	75RB#0	1000~20000	-37.67	PASS

Band7	15MHz	16QAM	20825	75RB#0	20000~27000	-31.22	PASS
Band7	15MHz	16QAM	21100	75RB#0	0.009~0.15	-75.14	PASS
Band7	15MHz	16QAM	21100	75RB#0	0.15~30	-64.53	PASS
Band7	15MHz	16QAM	21100	75RB#0	30~1000	-61.63	PASS
Band7	15MHz	16QAM	21100	75RB#0	1000~20000	-38.12	PASS
Band7	15MHz	16QAM	21100	75RB#0	20000~27000	-31.27	PASS
Band7	15MHz	16QAM	21375	75RB#0	0.009~0.15	-69.98	PASS
Band7	15MHz	16QAM	21375	75RB#0	0.15~30	-60.93	PASS
Band7	15MHz	16QAM	21375	75RB#0	30~1000	-61.96	PASS
Band7	15MHz	16QAM	21375	75RB#0	1000~20000	-37.82	PASS
Band7	15MHz	16QAM	21375	75RB#0	20000~27000	-31.10	PASS
Band7	20MHz	QPSK	20850	100RB#0	0.009~0.15	-74.18	PASS
Band7	20MHz	QPSK	20850	100RB#0	0.15~30	-64.10	PASS
Band7	20MHz	QPSK	20850	100RB#0	30~1000	-62.00	PASS
Band7	20MHz	QPSK	20850	100RB#0	1000~20000	-37.61	PASS
Band7	20MHz	QPSK	20850	100RB#0	20000~27000	-31.46	PASS
Band7	20MHz	QPSK	21100	100RB#0	0.009~0.15	-74.87	PASS
Band7	20MHz	QPSK	21100	100RB#0	0.15~30	-63.81	PASS
Band7	20MHz	QPSK	21100	100RB#0	30~1000	-61.67	PASS
Band7	20MHz	QPSK	21100	100RB#0	1000~20000	-37.69	PASS
Band7	20MHz	QPSK	21100	100RB#0	20000~27000	-31.30	PASS
Band7	20MHz	QPSK	21350	100RB#0	0.009~0.15	-71.95	PASS
Band7	20MHz	QPSK	21350	100RB#0	0.15~30	-61.97	PASS
Band7	20MHz	QPSK	21350	100RB#0	30~1000	-61.77	PASS
Band7	20MHz	QPSK	21350	100RB#0	1000~20000	-37.82	PASS
Band7	20MHz	QPSK	21350	100RB#0	20000~27000	-30.90	PASS
Band7	20MHz	16QAM	20850	100RB#0	0.009~0.15	-73.51	PASS
Band7	20MHz	16QAM	20850	100RB#0	0.15~30	-64.44	PASS
Band7	20MHz	16QAM	20850	100RB#0	30~1000	-61.88	PASS
Band7	20MHz	16QAM	20850	100RB#0	1000~20000	-37.35	PASS
Band7	20MHz	16QAM	20850	100RB#0	20000~27000	-31.24	PASS
Band7	20MHz	16QAM	21100	100RB#0	0.009~0.15	-72.04	PASS
Band7	20MHz	16QAM	21100	100RB#0	0.15~30	-62.27	PASS
Band7	20MHz	16QAM	21100	100RB#0	30~1000	-61.67	PASS
Band7	20MHz	16QAM	21100	100RB#0	1000~20000	-37.87	PASS
Band7	20MHz	16QAM	21100	100RB#0	20000~27000	-31.15	PASS
Band7	20MHz	16QAM	21350	100RB#0	0.009~0.15	-71.76	PASS
Band7	20MHz	16QAM	21350	100RB#0	0.15~30	-63.39	PASS
Band7	20MHz	16QAM	21350	100RB#0	30~1000	-61.84	PASS
Band7	20MHz	16QAM	21350	100RB#0	1000~20000	-37.83	PASS
Band7	20MHz	16QAM	21350	100RB#0	20000~27000	-31.38	PASS

Test Graphs

