

FCC LTE Band Test Data

FCC ID : 2BG5S-CLR903

Company: : Shanghai Yuge information technology Co., Ltd.

EUT : 4G LTE Wireless Communication Module

Model Number : CLR903

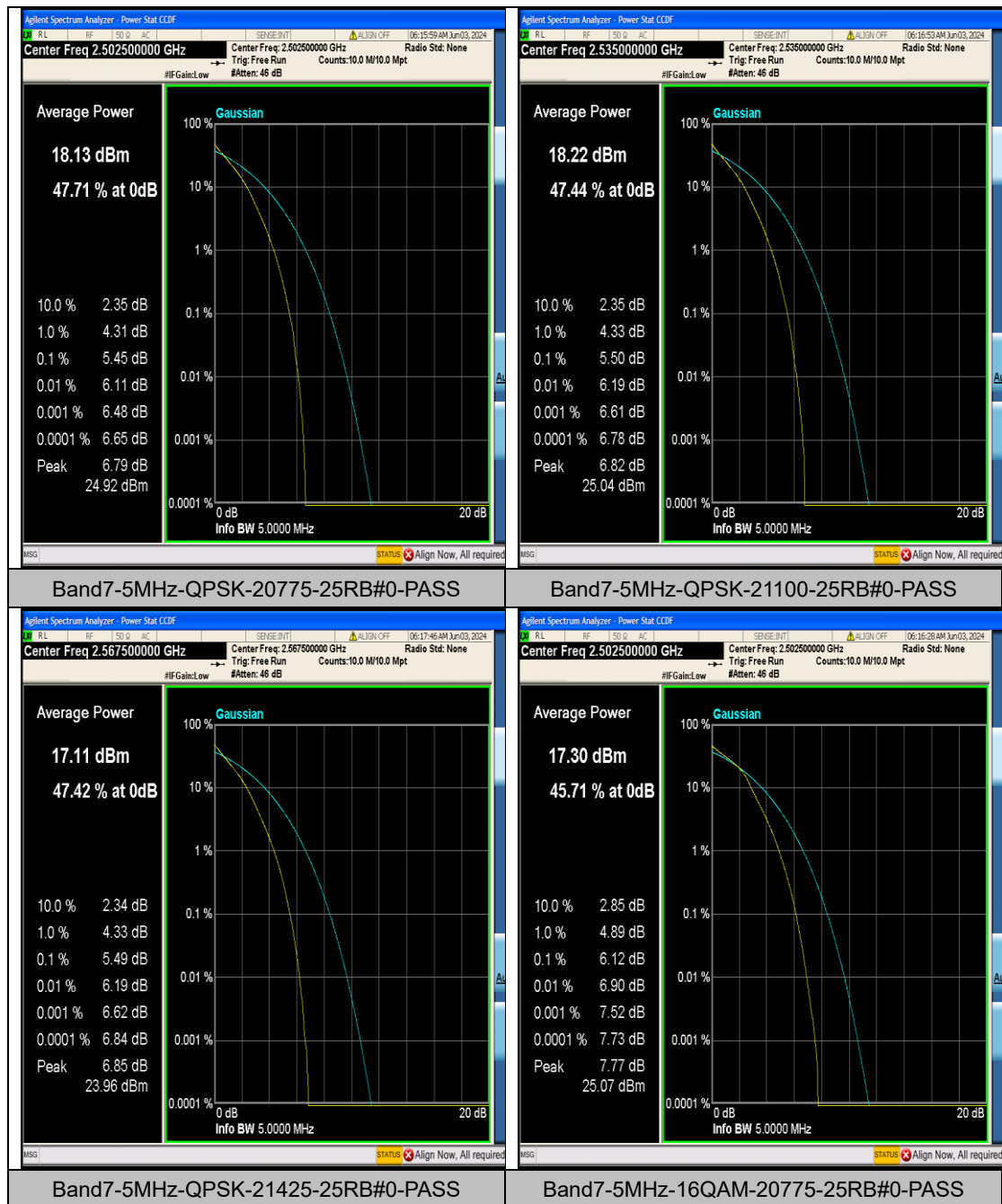
Reviewed By : Eric Wang

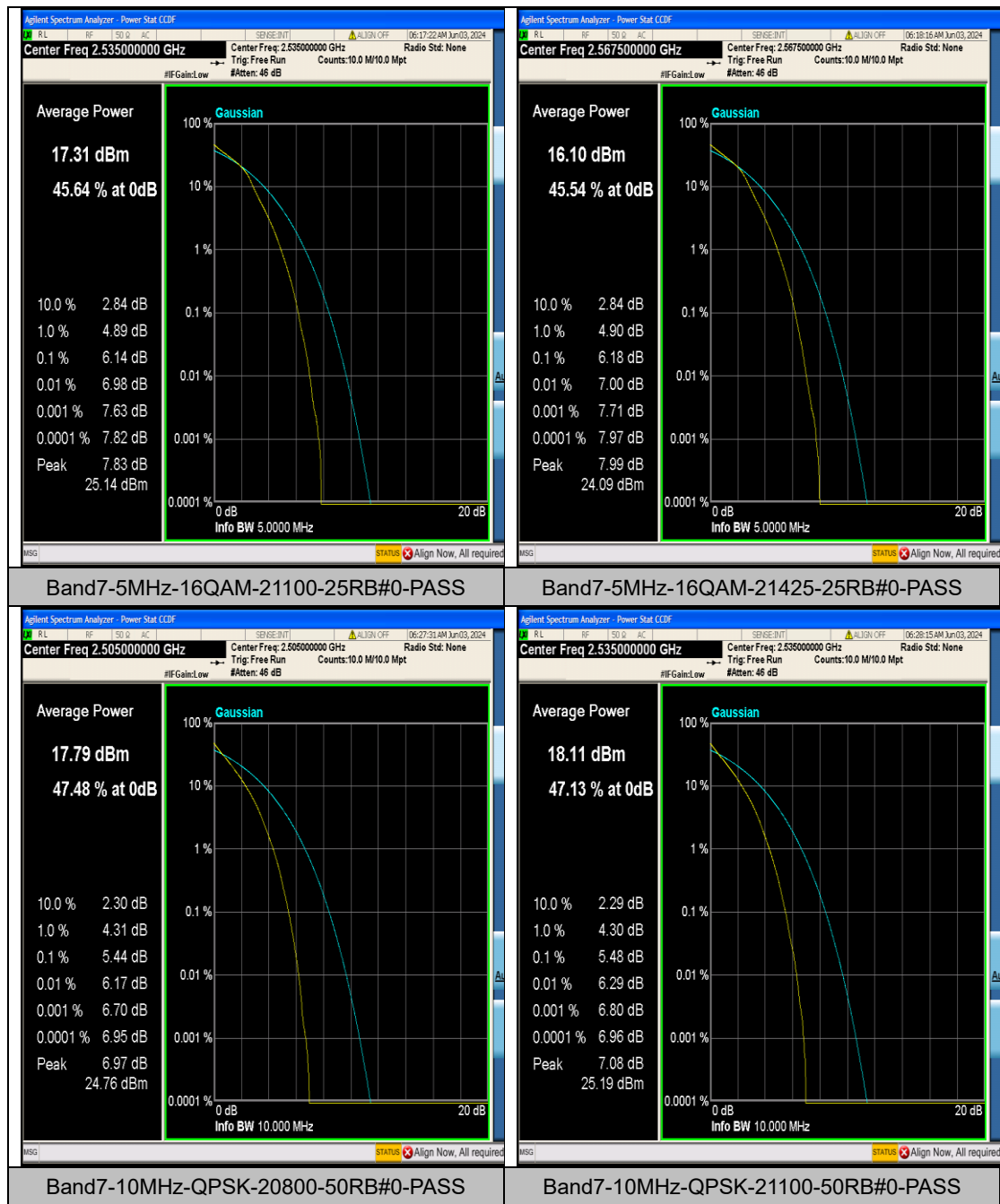
Appendix B: Peak-to-Average Ratio(CCDF)

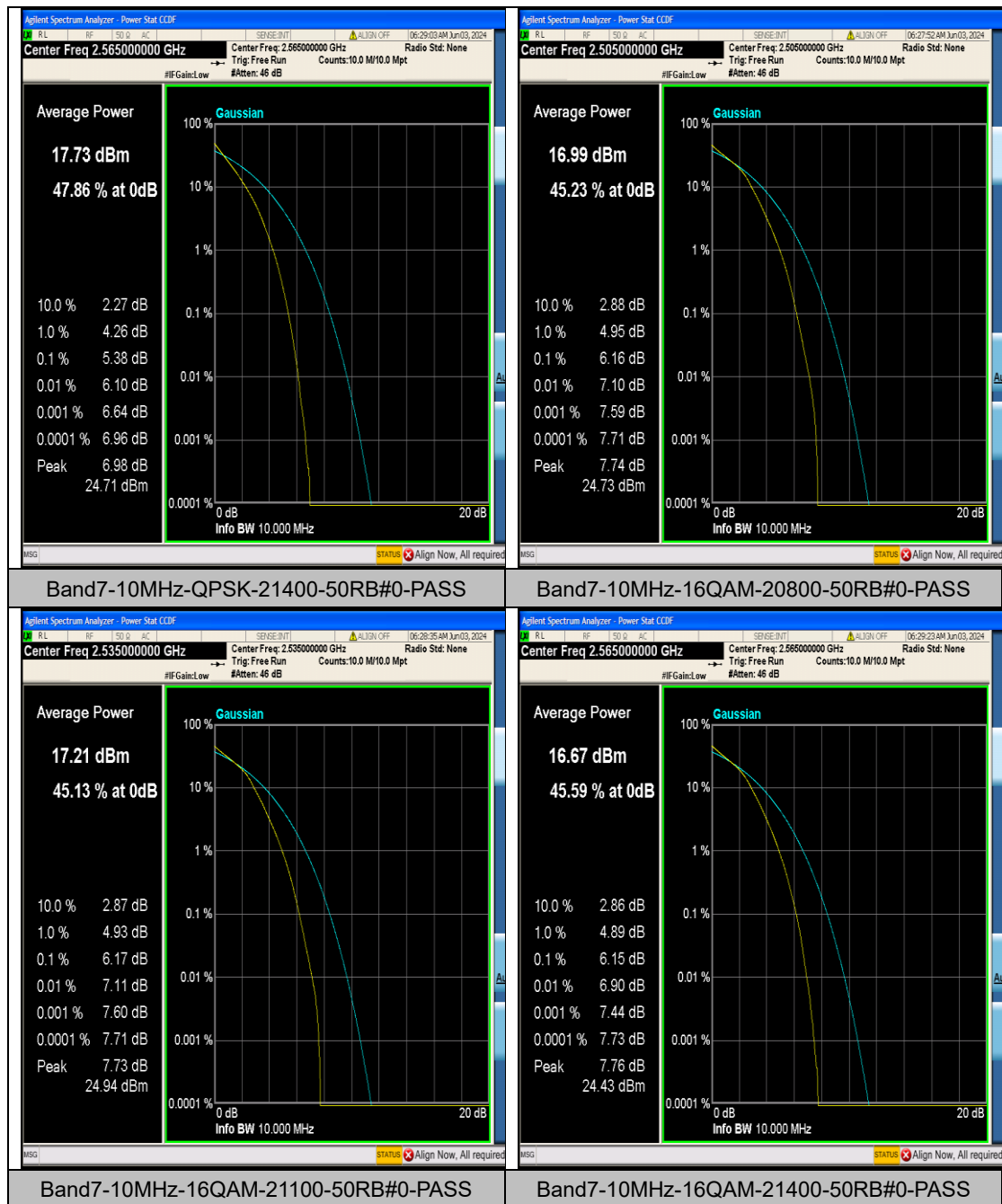
Test Result

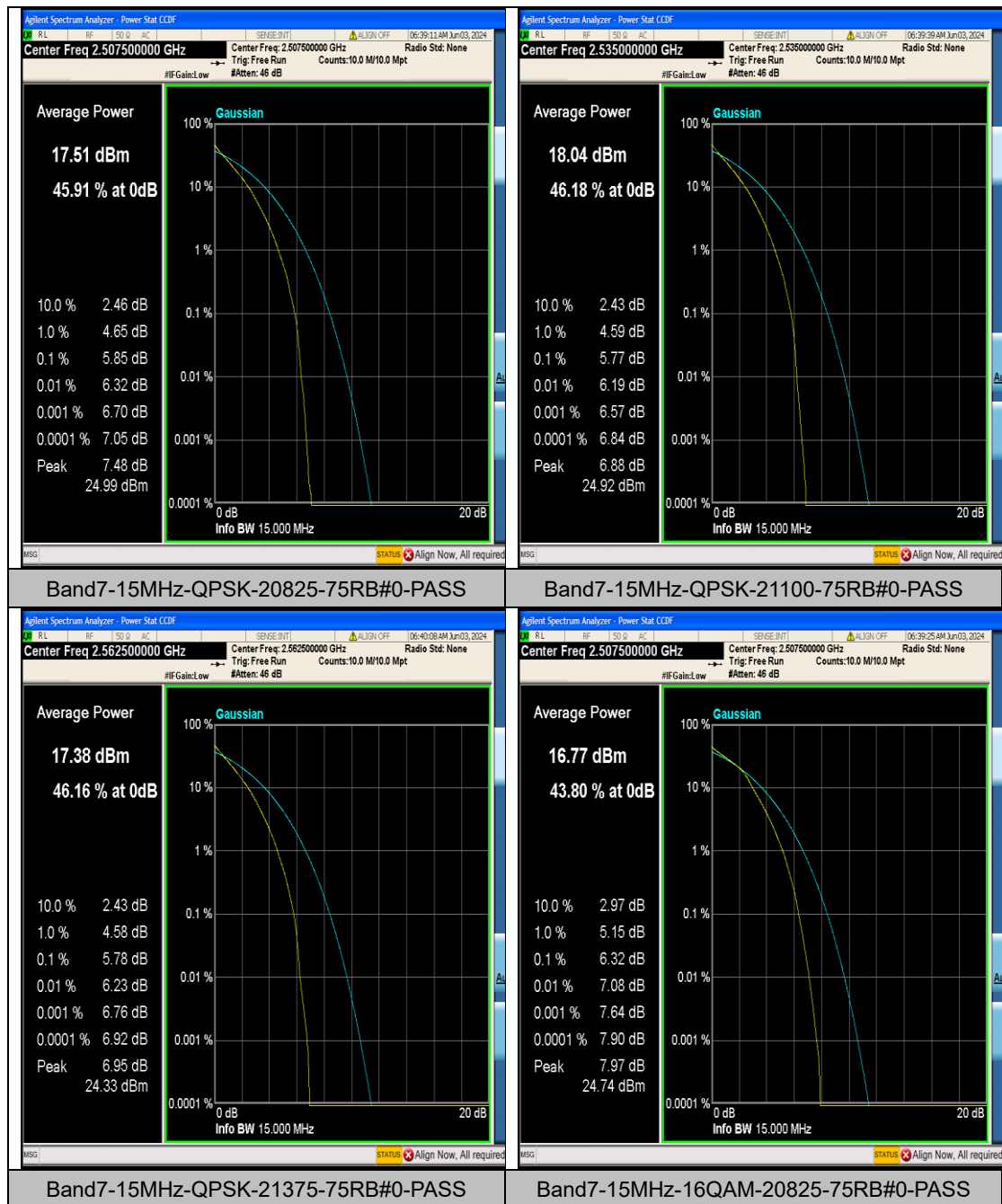
Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band7	5MHz	QPSK	20775	25RB#0	5.45	13	PASS
Band7	5MHz	QPSK	21100	25RB#0	5.50	13	PASS
Band7	5MHz	QPSK	21425	25RB#0	5.49	13	PASS
Band7	5MHz	16QAM	20775	25RB#0	6.12	13	PASS
Band7	5MHz	16QAM	21100	25RB#0	6.14	13	PASS
Band7	5MHz	16QAM	21425	25RB#0	6.18	13	PASS
Band7	10MHz	QPSK	20800	50RB#0	5.44	13	PASS
Band7	10MHz	QPSK	21100	50RB#0	5.48	13	PASS
Band7	10MHz	QPSK	21400	50RB#0	5.38	13	PASS
Band7	10MHz	16QAM	20800	50RB#0	6.16	13	PASS
Band7	10MHz	16QAM	21100	50RB#0	6.17	13	PASS
Band7	10MHz	16QAM	21400	50RB#0	6.15	13	PASS
Band7	15MHz	QPSK	20825	75RB#0	5.85	13	PASS
Band7	15MHz	QPSK	21100	75RB#0	5.77	13	PASS
Band7	15MHz	QPSK	21375	75RB#0	5.78	13	PASS
Band7	15MHz	16QAM	20825	75RB#0	6.32	13	PASS
Band7	15MHz	16QAM	21100	75RB#0	6.24	13	PASS
Band7	15MHz	16QAM	21375	75RB#0	6.27	13	PASS
Band7	20MHz	QPSK	20850	100RB#0	5.53	13	PASS
Band7	20MHz	QPSK	21100	100RB#0	5.42	13	PASS
Band7	20MHz	QPSK	21350	100RB#0	5.44	13	PASS
Band7	20MHz	16QAM	20850	100RB#0	6.29	13	PASS
Band7	20MHz	16QAM	21100	100RB#0	6.21	13	PASS
Band7	20MHz	16QAM	21350	100RB#0	6.25	13	PASS

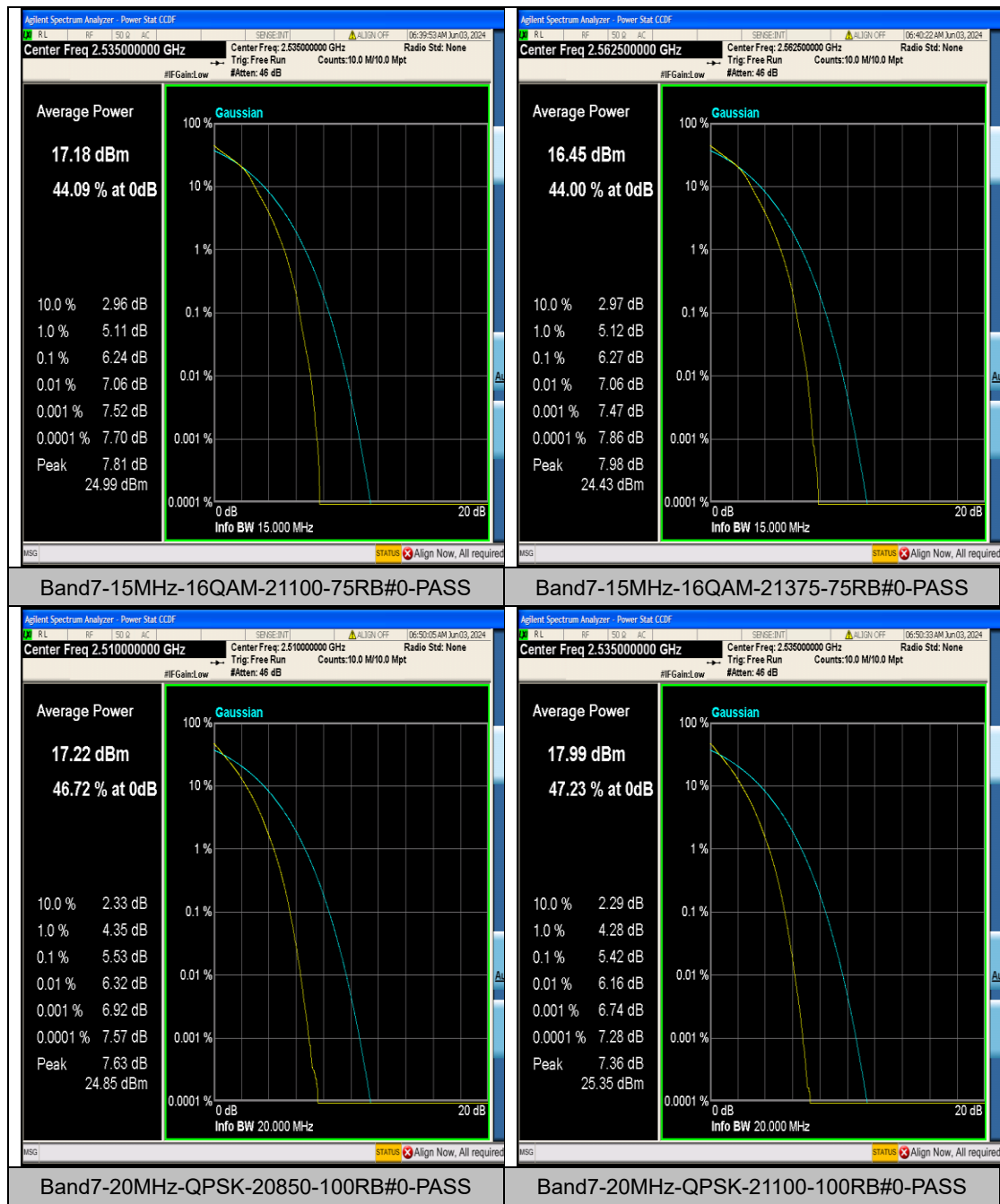
Test Graphs

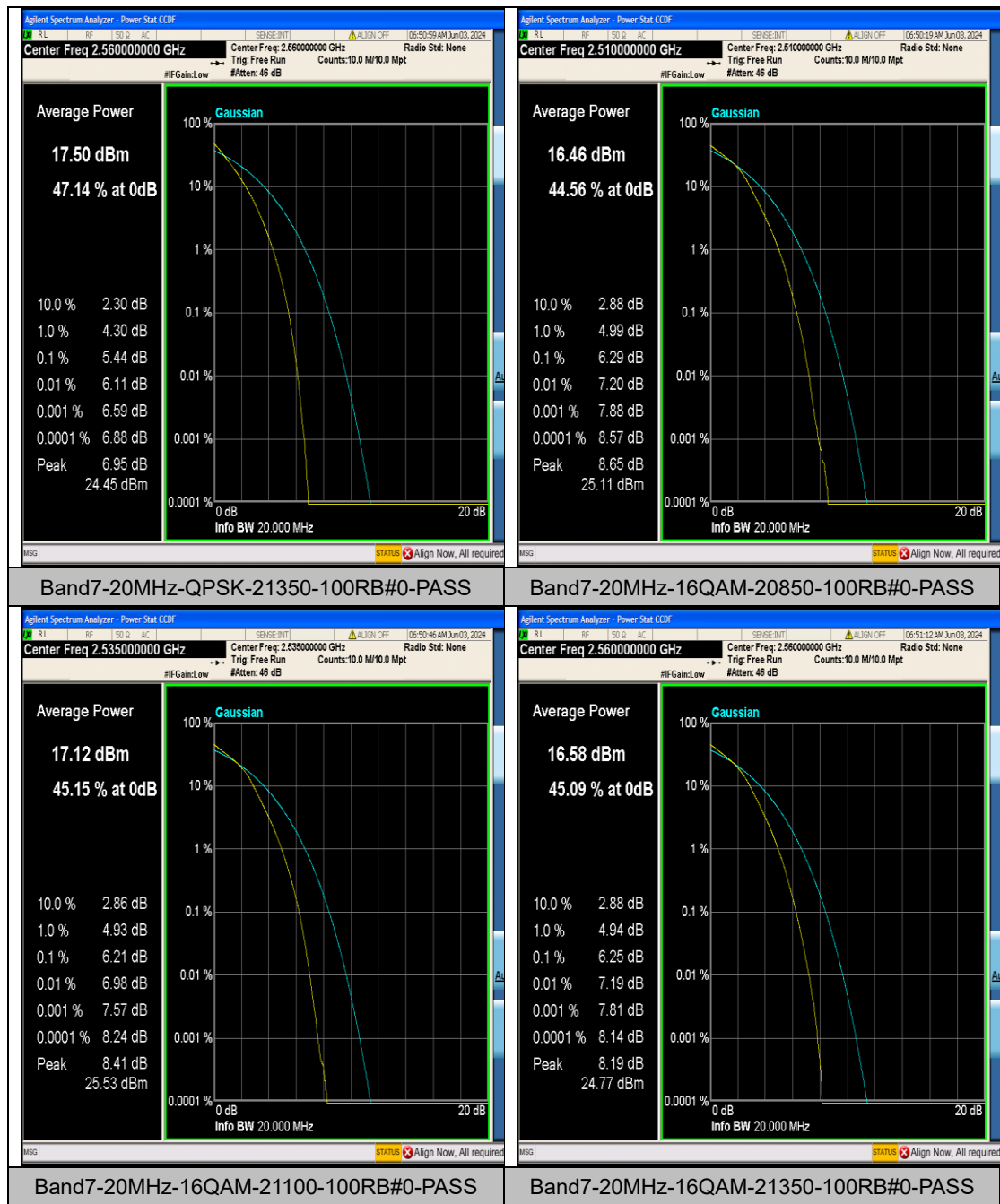










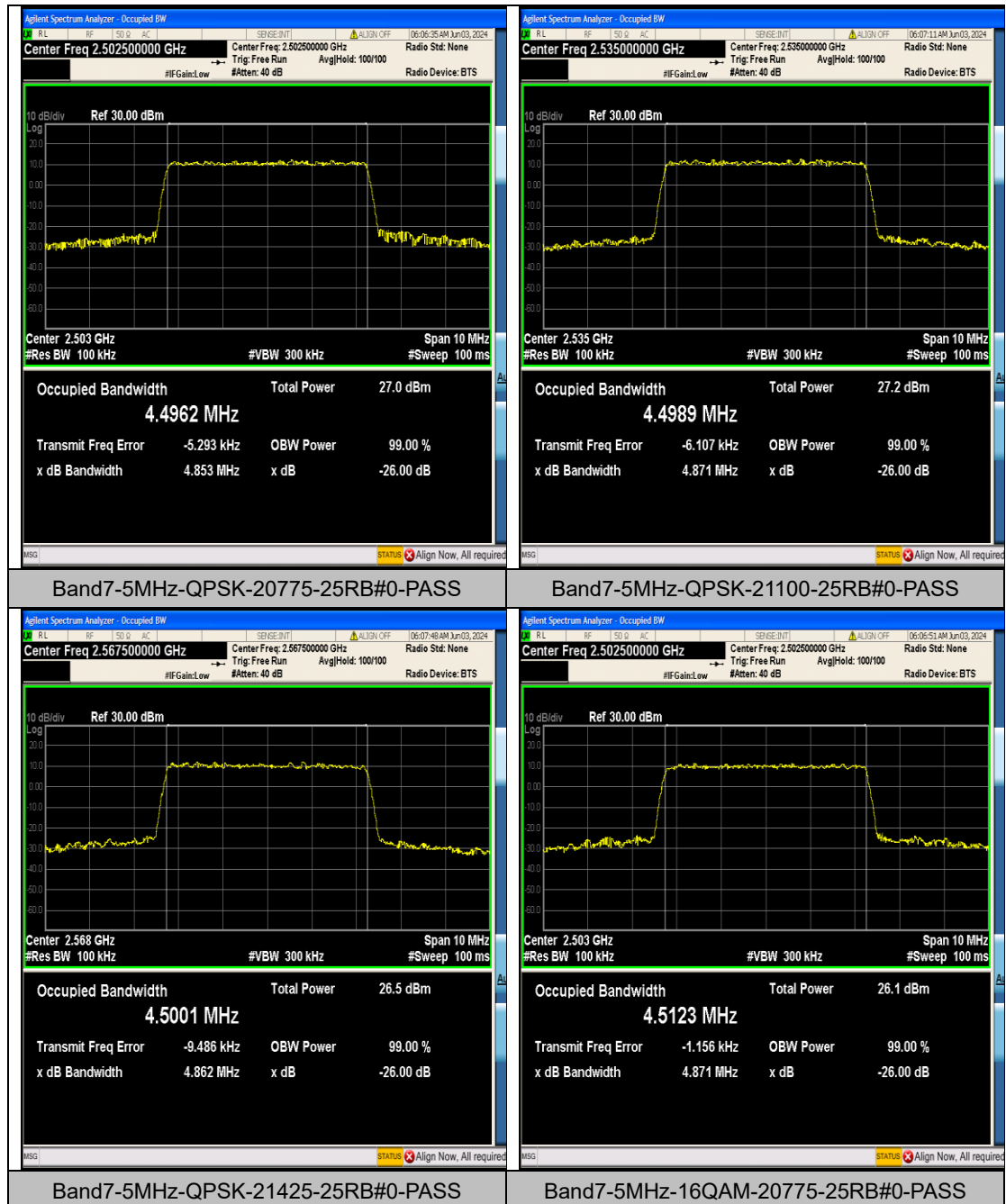


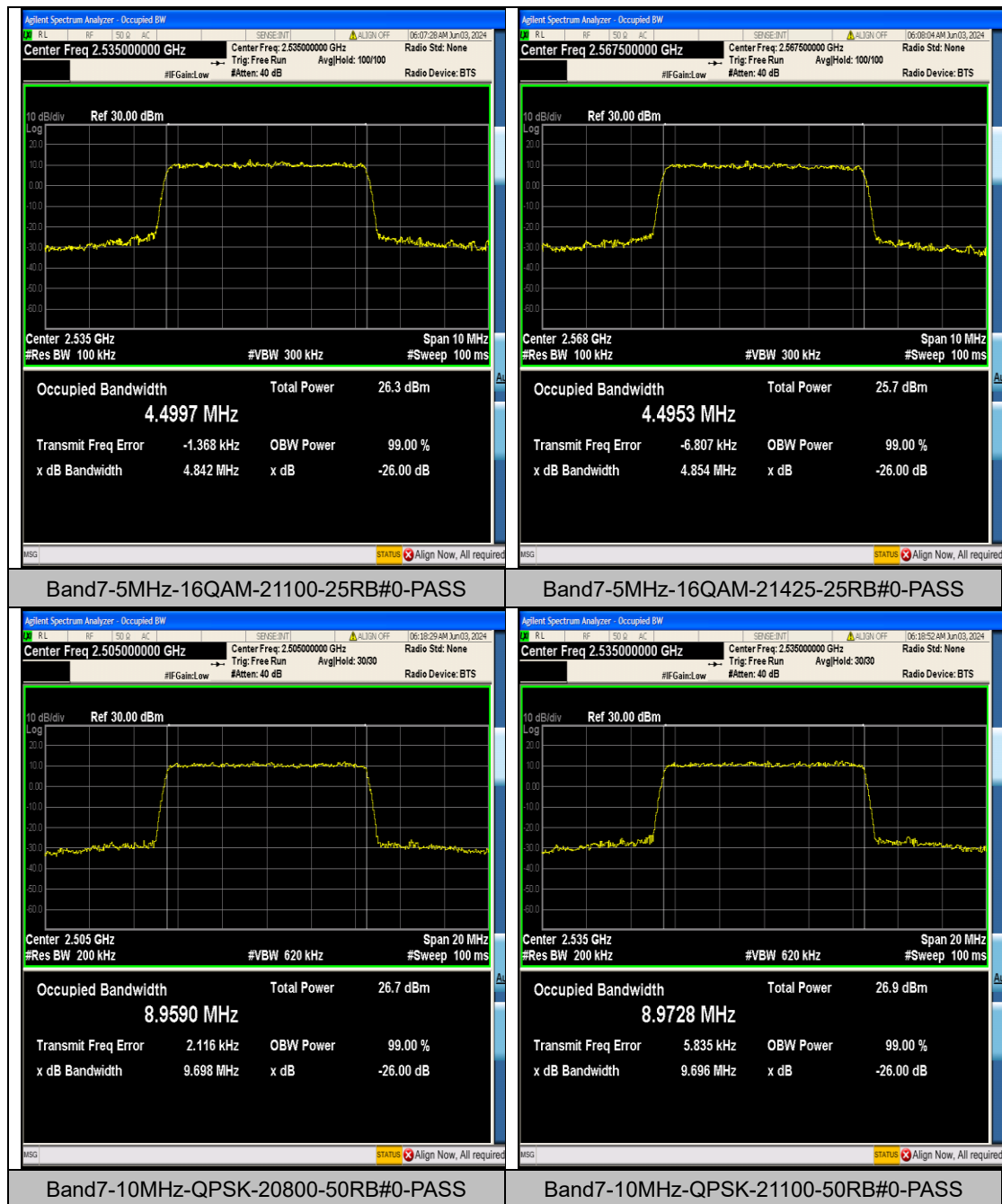
Appendix C: 26dB Bandwidth and Occupied Bandwidth

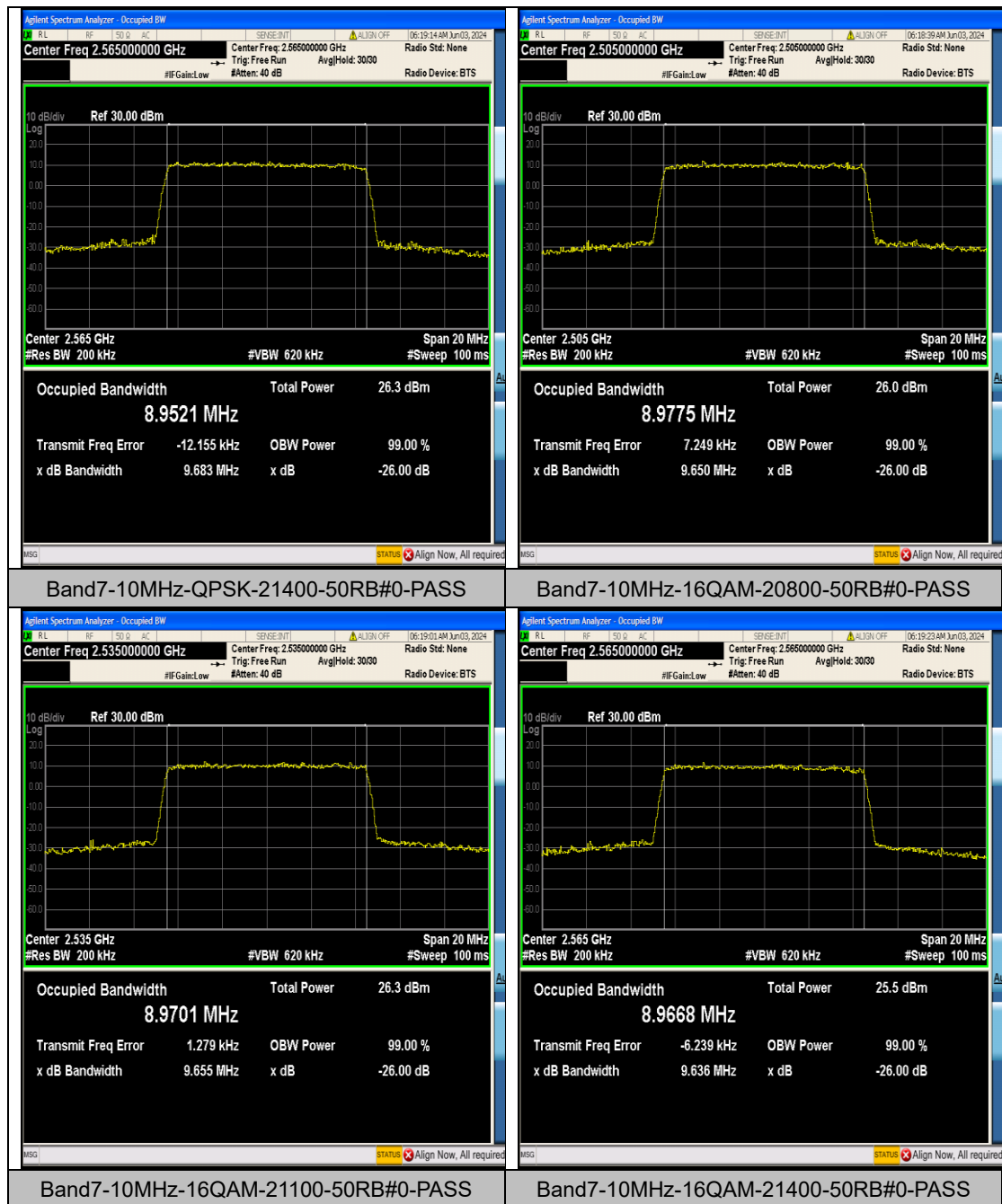
Test Result

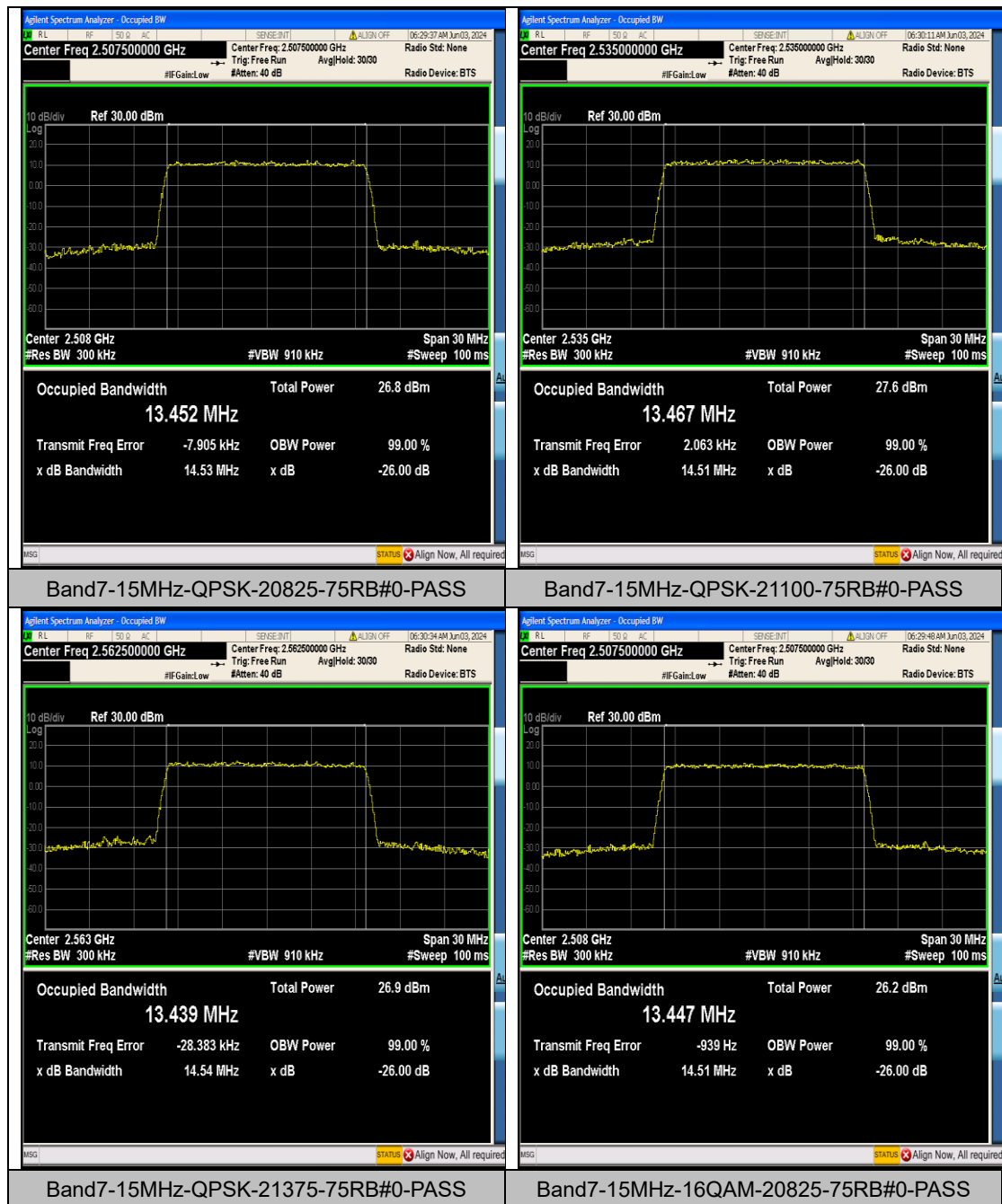
Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band7	5MHz	QPSK	20775	25RB#0	4.4962	4.853	PASS
Band7	5MHz	QPSK	21100	25RB#0	4.4989	4.871	PASS
Band7	5MHz	QPSK	21425	25RB#0	4.5001	4.862	PASS
Band7	5MHz	16QAM	20775	25RB#0	4.5123	4.871	PASS
Band7	5MHz	16QAM	21100	25RB#0	4.4997	4.842	PASS
Band7	5MHz	16QAM	21425	25RB#0	4.4953	4.854	PASS
Band7	10MHz	QPSK	20800	50RB#0	8.9590	9.698	PASS
Band7	10MHz	QPSK	21100	50RB#0	8.9728	9.696	PASS
Band7	10MHz	QPSK	21400	50RB#0	8.9521	9.683	PASS
Band7	10MHz	16QAM	20800	50RB#0	8.9775	9.650	PASS
Band7	10MHz	16QAM	21100	50RB#0	8.9701	9.655	PASS
Band7	10MHz	16QAM	21400	50RB#0	8.9668	9.636	PASS
Band7	15MHz	QPSK	20825	75RB#0	13.452	14.53	PASS
Band7	15MHz	QPSK	21100	75RB#0	13.467	14.51	PASS
Band7	15MHz	QPSK	21375	75RB#0	13.439	14.54	PASS
Band7	15MHz	16QAM	20825	75RB#0	13.447	14.51	PASS
Band7	15MHz	16QAM	21100	75RB#0	13.450	14.48	PASS
Band7	15MHz	16QAM	21375	75RB#0	13.450	14.53	PASS
Band7	20MHz	QPSK	20850	100RB#0	17.946	19.51	PASS
Band7	20MHz	QPSK	21100	100RB#0	17.929	19.47	PASS
Band7	20MHz	QPSK	21350	100RB#0	17.943	19.53	PASS
Band7	20MHz	16QAM	20850	100RB#0	18.000	19.52	PASS
Band7	20MHz	16QAM	21100	100RB#0	17.965	19.54	PASS
Band7	20MHz	16QAM	21350	100RB#0	17.913	19.66	PASS

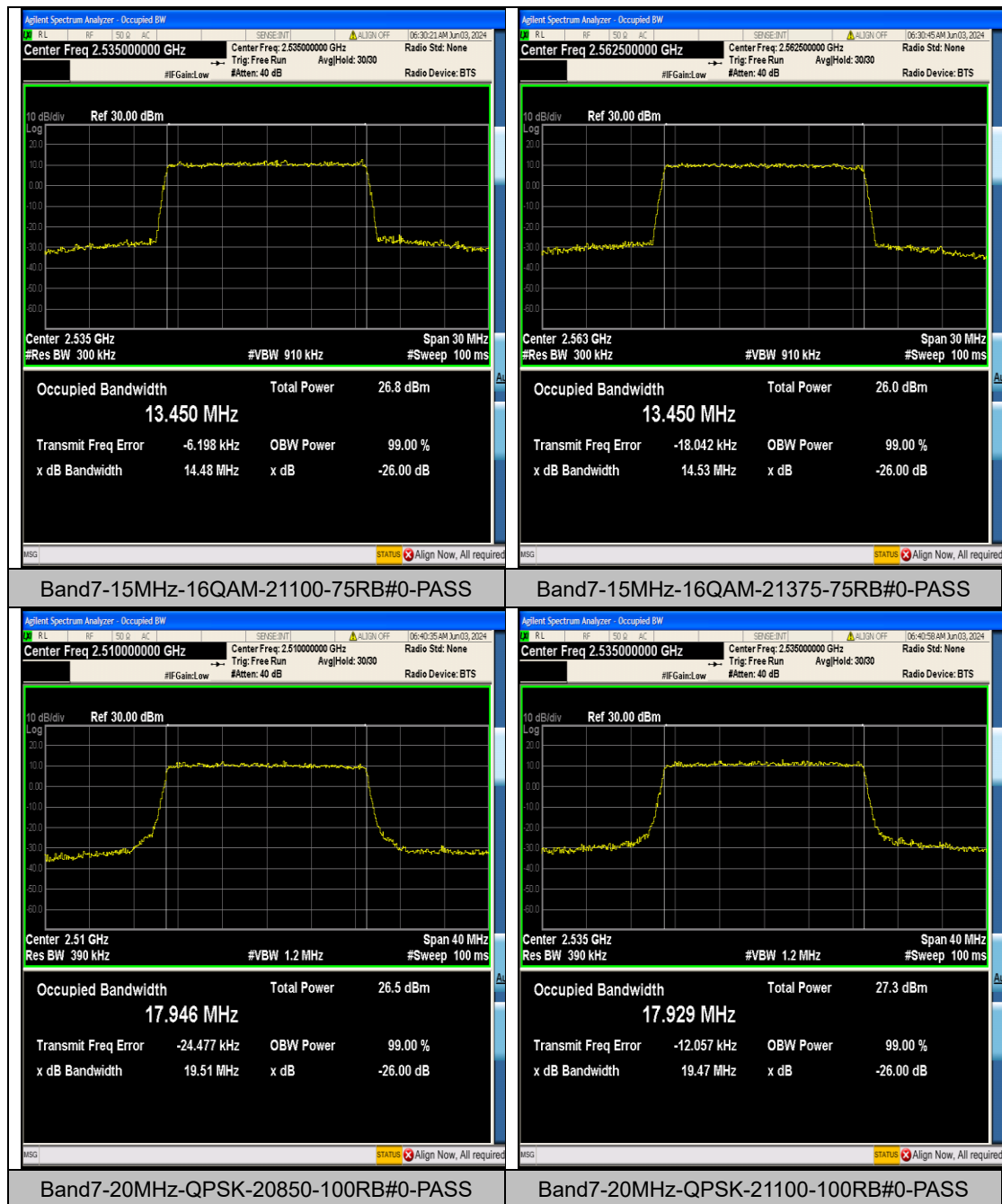
Test Graphs

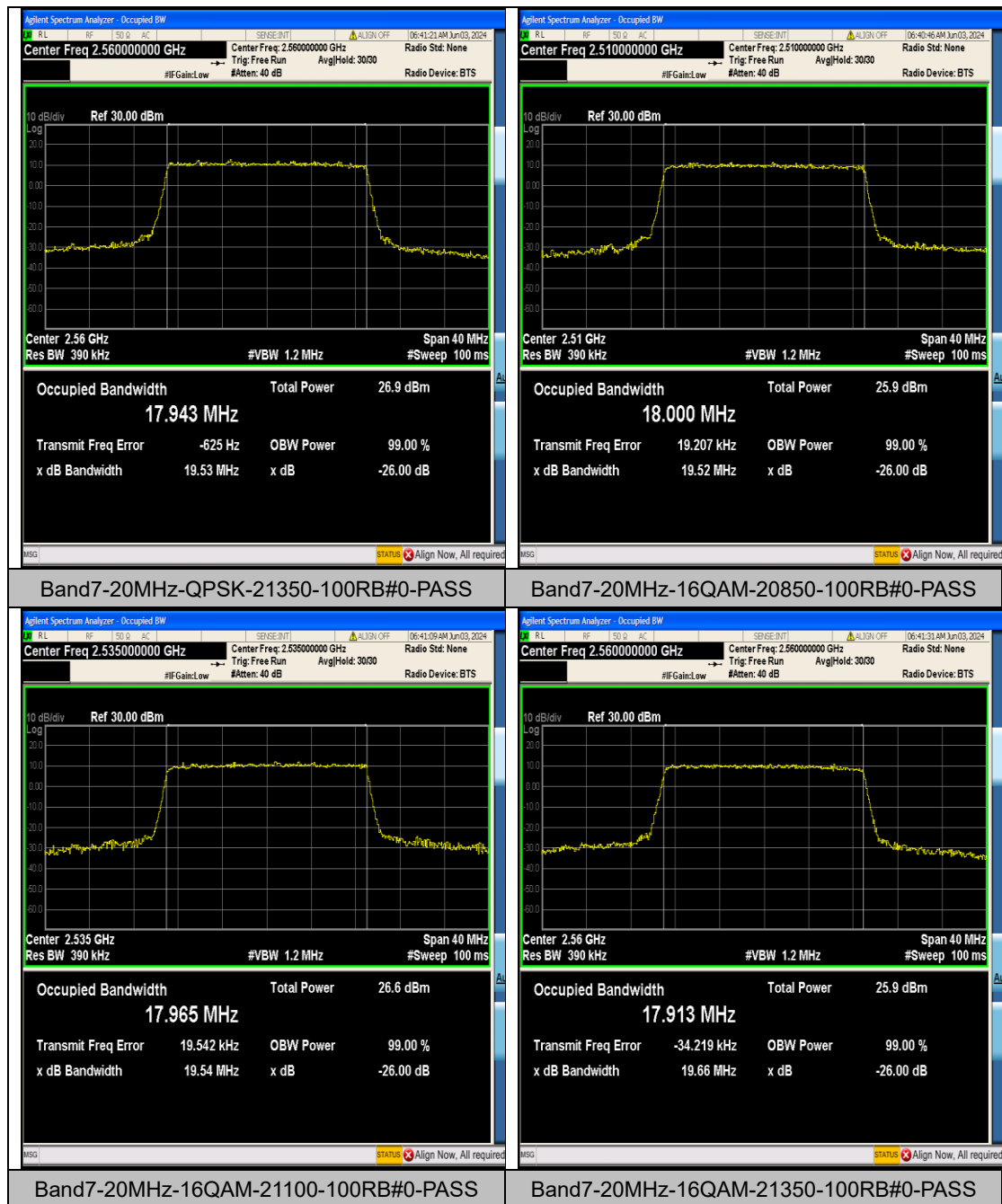










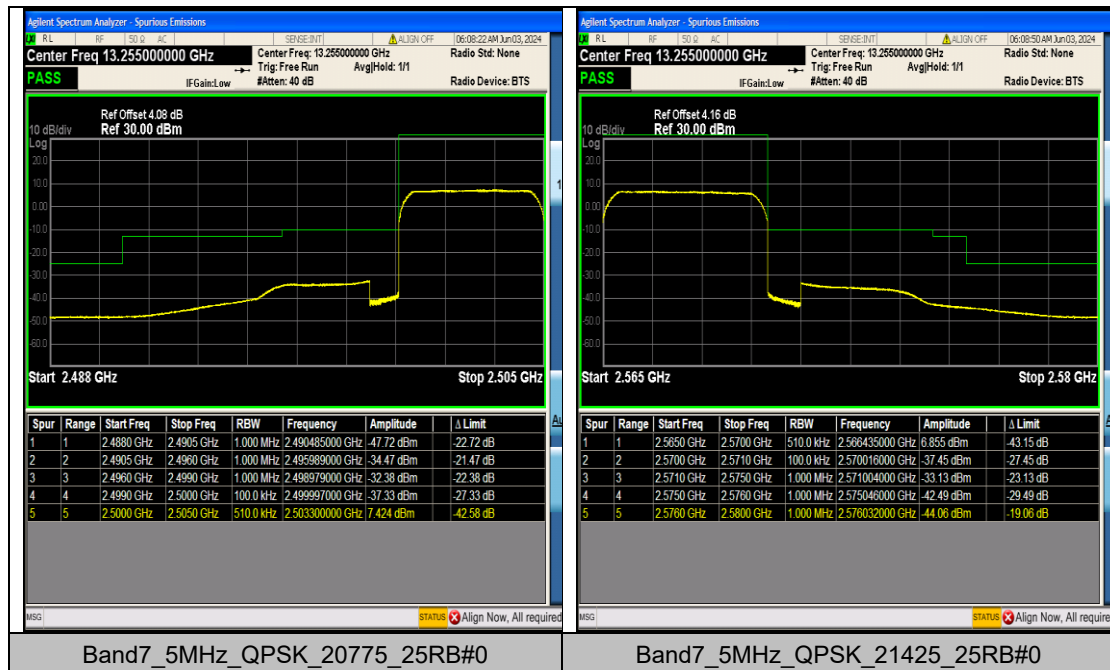


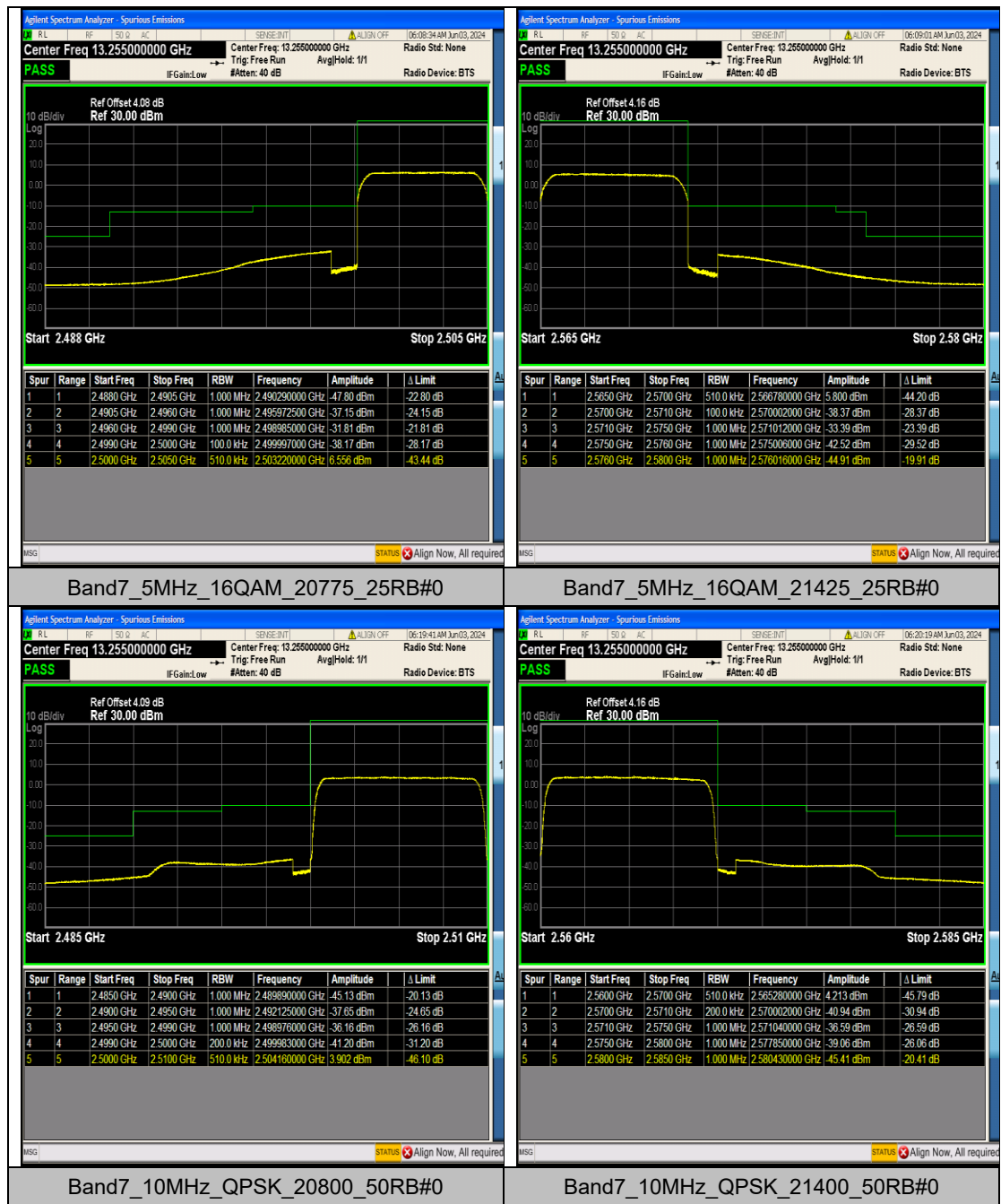
Appendix D: Band Edge

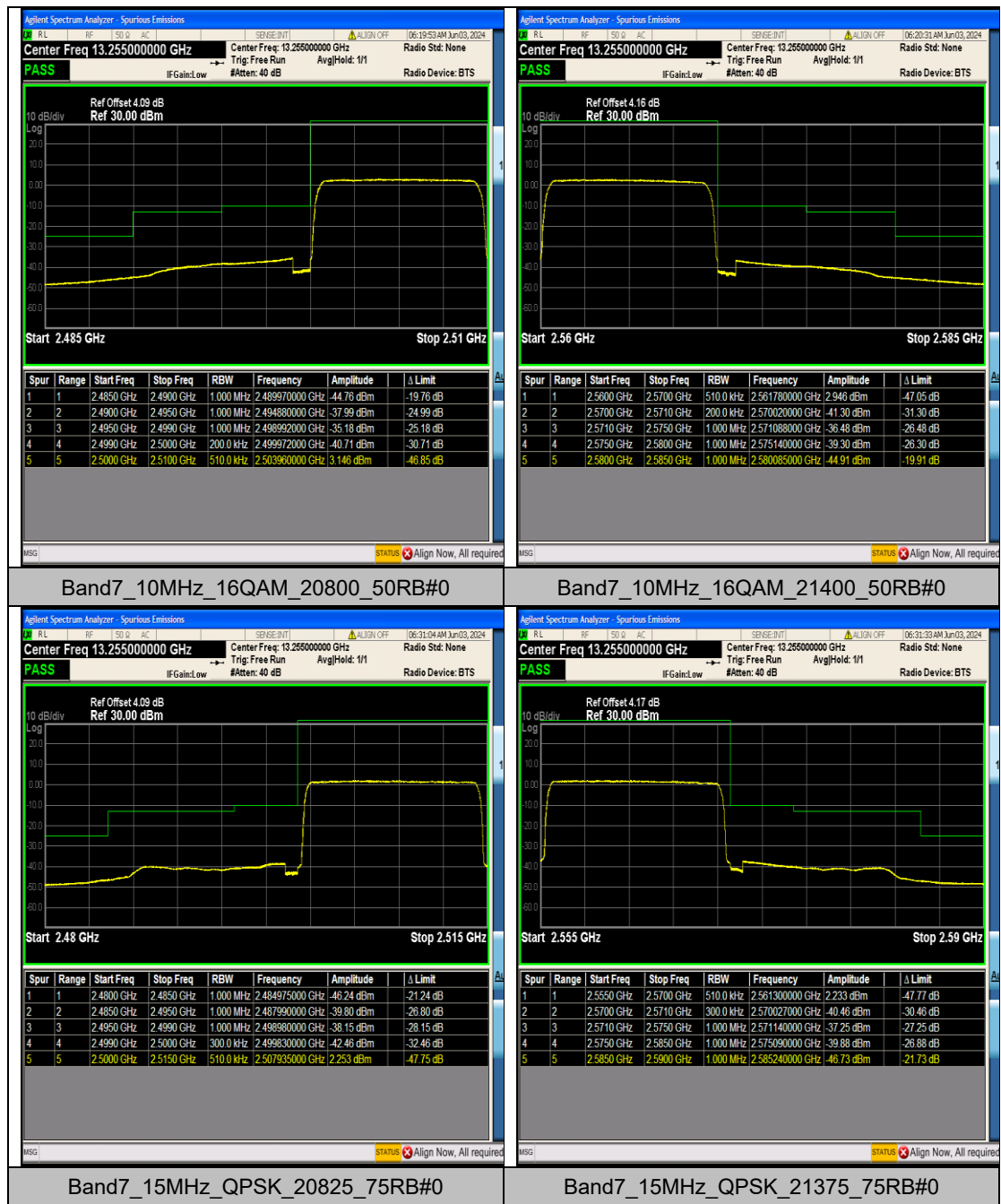
Test Result

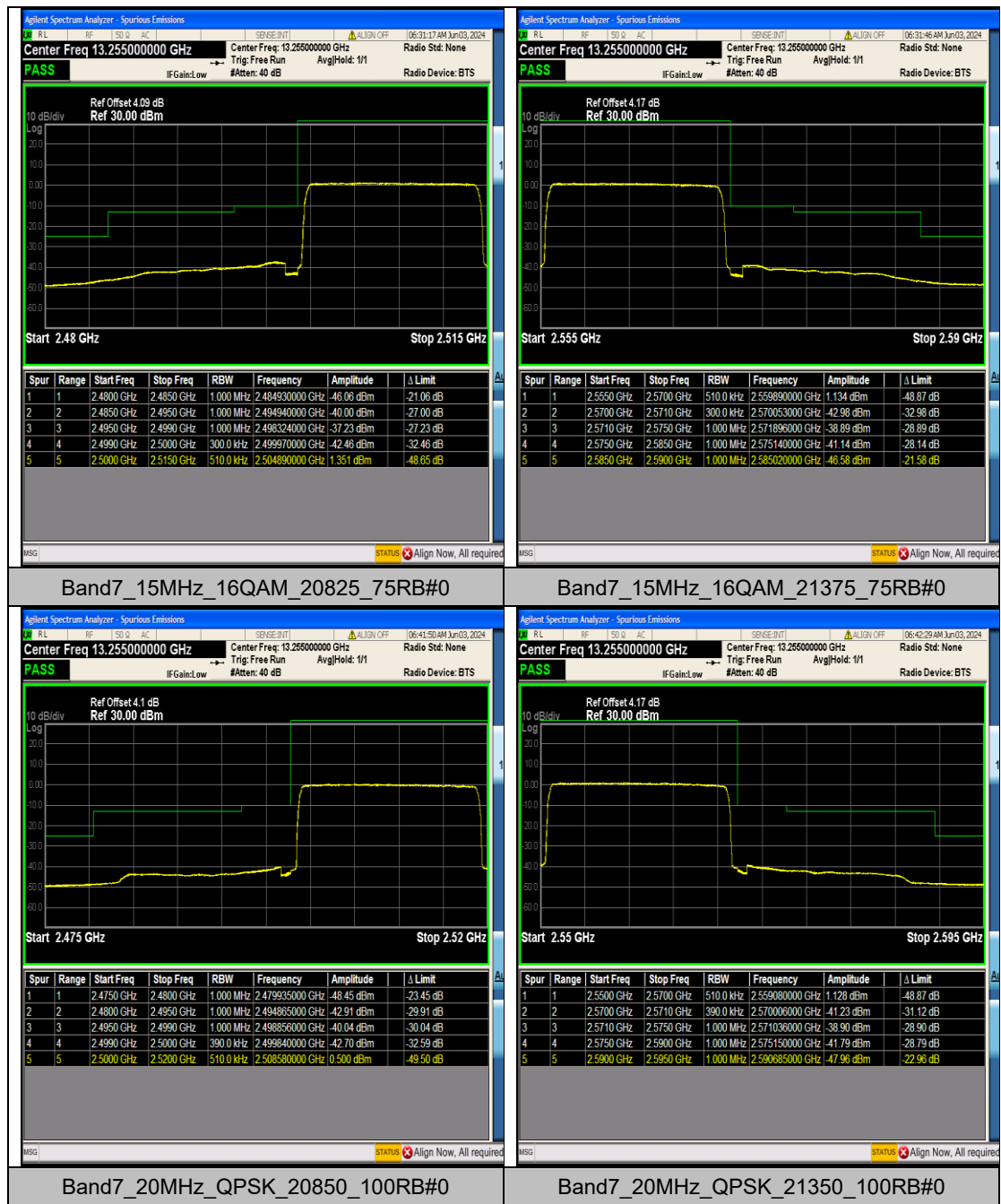
Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band7	5MHz	QPSK	20775	25RB#0	-34.47	PASS
Band7	5MHz	QPSK	21425	25RB#0	-44.06	PASS
Band7	5MHz	16QAM	20775	25RB#0	-31.81	PASS
Band7	5MHz	16QAM	21425	25RB#0	-44.91	PASS
Band7	10MHz	QPSK	20800	50RB#0	-45.13	PASS
Band7	10MHz	QPSK	21400	50RB#0	-45.41	PASS
Band7	10MHz	16QAM	20800	50RB#0	-44.76	PASS
Band7	10MHz	16QAM	21400	50RB#0	-44.91	PASS
Band7	15MHz	QPSK	20825	75RB#0	-46.24	PASS
Band7	15MHz	QPSK	21375	75RB#0	-46.73	PASS
Band7	15MHz	16QAM	20825	75RB#0	-46.06	PASS
Band7	15MHz	16QAM	21375	75RB#0	-46.58	PASS
Band7	20MHz	QPSK	20850	100RB#0	-48.45	PASS
Band7	20MHz	QPSK	21350	100RB#0	-47.96	PASS
Band7	20MHz	16QAM	20850	100RB#0	-48.33	PASS
Band7	20MHz	16QAM	21350	100RB#0	-47.91	PASS

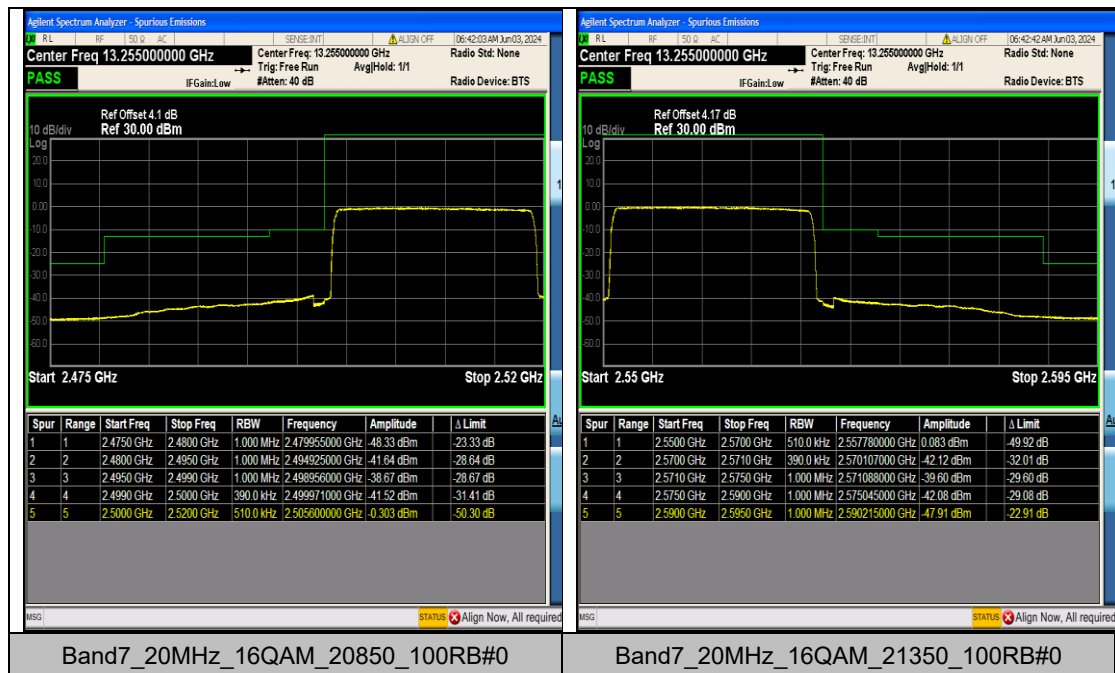
Test Graphs











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	-74.51	PASS
Band7	5MHz	QPSK	20775	25RB#0	0.15~30	-69.77	PASS
Band7	5MHz	QPSK	20775	25RB#0	30~1000	-66.89	PASS
Band7	5MHz	QPSK	20775	25RB#0	1000~20000	-46.53	PASS
Band7	5MHz	QPSK	20775	25RB#0	20000~27000	-39.88	PASS
Band7	5MHz	QPSK	21100	25RB#0	0.009~0.15	-71.39	PASS
Band7	5MHz	QPSK	21100	25RB#0	0.15~30	-67.93	PASS
Band7	5MHz	QPSK	21100	25RB#0	30~1000	-66.58	PASS
Band7	5MHz	QPSK	21100	25RB#0	1000~20000	-46.37	PASS
Band7	5MHz	QPSK	21100	25RB#0	20000~27000	-39.79	PASS
Band7	5MHz	QPSK	21425	25RB#0	0.009~0.15	-74.07	PASS
Band7	5MHz	QPSK	21425	25RB#0	0.15~30	-69.41	PASS
Band7	5MHz	QPSK	21425	25RB#0	30~1000	-66.77	PASS
Band7	5MHz	QPSK	21425	25RB#0	1000~20000	-46.33	PASS
Band7	5MHz	QPSK	21425	25RB#0	20000~27000	-39.47	PASS
Band7	5MHz	16QAM	20775	25RB#0	0.009~0.15	-71.41	PASS
Band7	5MHz	16QAM	20775	25RB#0	0.15~30	-68.22	PASS
Band7	5MHz	16QAM	20775	25RB#0	30~1000	-66.59	PASS
Band7	5MHz	16QAM	20775	25RB#0	1000~20000	-46.20	PASS
Band7	5MHz	16QAM	20775	25RB#0	20000~27000	-40.03	PASS
Band7	5MHz	16QAM	21100	25RB#0	0.009~0.15	-74.46	PASS
Band7	5MHz	16QAM	21100	25RB#0	0.15~30	-69.15	PASS
Band7	5MHz	16QAM	21100	25RB#0	30~1000	-66.45	PASS
Band7	5MHz	16QAM	21100	25RB#0	1000~20000	-46.43	PASS
Band7	5MHz	16QAM	21100	25RB#0	20000~27000	-39.77	PASS
Band7	5MHz	16QAM	21425	25RB#0	0.009~0.15	-73.80	PASS
Band7	5MHz	16QAM	21425	25RB#0	0.15~30	-69.75	PASS
Band7	5MHz	16QAM	21425	25RB#0	30~1000	-66.69	PASS
Band7	5MHz	16QAM	21425	25RB#0	1000~20000	-45.96	PASS
Band7	5MHz	16QAM	21425	25RB#0	20000~27000	-39.77	PASS
Band7	10MHz	QPSK	20800	50RB#0	0.009~0.15	-76.23	PASS
Band7	10MHz	QPSK	20800	50RB#0	0.15~30	-71.29	PASS
Band7	10MHz	QPSK	20800	50RB#0	30~1000	-66.45	PASS
Band7	10MHz	QPSK	20800	50RB#0	1000~20000	-46.32	PASS
Band7	10MHz	QPSK	20800	50RB#0	20000~27000	-39.56	PASS
Band7	10MHz	QPSK	21100	50RB#0	0.009~0.15	-74.96	PASS

Band7	10MHz	QPSK	21100	50RB#0	0.15~30	-69.00	PASS
Band7	10MHz	QPSK	21100	50RB#0	30~1000	-66.96	PASS
Band7	10MHz	QPSK	21100	50RB#0	1000~20000	-46.65	PASS
Band7	10MHz	QPSK	21100	50RB#0	20000~27000	-39.83	PASS
Band7	10MHz	QPSK	21400	50RB#0	0.009~0.15	-71.97	PASS
Band7	10MHz	QPSK	21400	50RB#0	0.15~30	-68.66	PASS
Band7	10MHz	QPSK	21400	50RB#0	30~1000	-66.74	PASS
Band7	10MHz	QPSK	21400	50RB#0	1000~20000	-45.86	PASS
Band7	10MHz	QPSK	21400	50RB#0	20000~27000	-39.68	PASS
Band7	10MHz	16QAM	20800	50RB#0	0.009~0.15	-74.43	PASS
Band7	10MHz	16QAM	20800	50RB#0	0.15~30	-69.13	PASS
Band7	10MHz	16QAM	20800	50RB#0	30~1000	-66.81	PASS
Band7	10MHz	16QAM	20800	50RB#0	1000~20000	-46.10	PASS
Band7	10MHz	16QAM	20800	50RB#0	20000~27000	-39.75	PASS
Band7	10MHz	16QAM	21100	50RB#0	0.009~0.15	-72.79	PASS
Band7	10MHz	16QAM	21100	50RB#0	0.15~30	-69.44	PASS
Band7	10MHz	16QAM	21100	50RB#0	30~1000	-66.51	PASS
Band7	10MHz	16QAM	21100	50RB#0	1000~20000	-46.51	PASS
Band7	10MHz	16QAM	21100	50RB#0	20000~27000	-40.04	PASS
Band7	10MHz	16QAM	21400	50RB#0	0.009~0.15	-72.03	PASS
Band7	10MHz	16QAM	21400	50RB#0	0.15~30	-70.26	PASS
Band7	10MHz	16QAM	21400	50RB#0	30~1000	-66.93	PASS
Band7	10MHz	16QAM	21400	50RB#0	1000~20000	-46.39	PASS
Band7	10MHz	16QAM	21400	50RB#0	20000~27000	-39.77	PASS
Band7	15MHz	QPSK	20825	75RB#0	0.009~0.15	-74.20	PASS
Band7	15MHz	QPSK	20825	75RB#0	0.15~30	-68.64	PASS
Band7	15MHz	QPSK	20825	75RB#0	30~1000	-66.95	PASS
Band7	15MHz	QPSK	20825	75RB#0	1000~20000	-45.85	PASS
Band7	15MHz	QPSK	20825	75RB#0	20000~27000	-39.74	PASS
Band7	15MHz	QPSK	21100	75RB#0	0.009~0.15	-73.91	PASS
Band7	15MHz	QPSK	21100	75RB#0	0.15~30	-68.26	PASS
Band7	15MHz	QPSK	21100	75RB#0	30~1000	-66.70	PASS
Band7	15MHz	QPSK	21100	75RB#0	1000~20000	-46.24	PASS
Band7	15MHz	QPSK	21100	75RB#0	20000~27000	-39.91	PASS
Band7	15MHz	QPSK	21375	75RB#0	0.009~0.15	-68.30	PASS
Band7	15MHz	QPSK	21375	75RB#0	0.15~30	-68.02	PASS
Band7	15MHz	QPSK	21375	75RB#0	30~1000	-66.82	PASS
Band7	15MHz	QPSK	21375	75RB#0	1000~20000	-46.17	PASS
Band7	15MHz	QPSK	21375	75RB#0	20000~27000	-39.93	PASS
Band7	15MHz	16QAM	20825	75RB#0	0.009~0.15	-74.93	PASS
Band7	15MHz	16QAM	20825	75RB#0	0.15~30	-69.10	PASS
Band7	15MHz	16QAM	20825	75RB#0	30~1000	-66.72	PASS
Band7	15MHz	16QAM	20825	75RB#0	1000~20000	-46.39	PASS

Band7	15MHz	16QAM	20825	75RB#0	20000~27000	-39.46	PASS
Band7	15MHz	16QAM	21100	75RB#0	0.009~0.15	-71.14	PASS
Band7	15MHz	16QAM	21100	75RB#0	0.15~30	-67.80	PASS
Band7	15MHz	16QAM	21100	75RB#0	30~1000	-66.47	PASS
Band7	15MHz	16QAM	21100	75RB#0	1000~20000	-46.12	PASS
Band7	15MHz	16QAM	21100	75RB#0	20000~27000	-39.98	PASS
Band7	15MHz	16QAM	21375	75RB#0	0.009~0.15	-71.86	PASS
Band7	15MHz	16QAM	21375	75RB#0	0.15~30	-67.43	PASS
Band7	15MHz	16QAM	21375	75RB#0	30~1000	-66.92	PASS
Band7	15MHz	16QAM	21375	75RB#0	1000~20000	-46.41	PASS
Band7	15MHz	16QAM	21375	75RB#0	20000~27000	-39.88	PASS
Band7	20MHz	QPSK	20850	100RB#0	0.009~0.15	-73.90	PASS
Band7	20MHz	QPSK	20850	100RB#0	0.15~30	-67.93	PASS
Band7	20MHz	QPSK	20850	100RB#0	30~1000	-66.90	PASS
Band7	20MHz	QPSK	20850	100RB#0	1000~20000	-46.35	PASS
Band7	20MHz	QPSK	20850	100RB#0	20000~27000	-39.85	PASS
Band7	20MHz	QPSK	21100	100RB#0	0.009~0.15	-76.39	PASS
Band7	20MHz	QPSK	21100	100RB#0	0.15~30	-69.53	PASS
Band7	20MHz	QPSK	21100	100RB#0	30~1000	-66.71	PASS
Band7	20MHz	QPSK	21100	100RB#0	1000~20000	-46.48	PASS
Band7	20MHz	QPSK	21100	100RB#0	20000~27000	-39.72	PASS
Band7	20MHz	QPSK	21350	100RB#0	0.009~0.15	-70.59	PASS
Band7	20MHz	QPSK	21350	100RB#0	0.15~30	-66.36	PASS
Band7	20MHz	QPSK	21350	100RB#0	30~1000	-66.54	PASS
Band7	20MHz	QPSK	21350	100RB#0	1000~20000	-45.93	PASS
Band7	20MHz	QPSK	21350	100RB#0	20000~27000	-39.78	PASS
Band7	20MHz	16QAM	20850	100RB#0	0.009~0.15	-75.79	PASS
Band7	20MHz	16QAM	20850	100RB#0	0.15~30	-69.25	PASS
Band7	20MHz	16QAM	20850	100RB#0	30~1000	-66.85	PASS
Band7	20MHz	16QAM	20850	100RB#0	1000~20000	-45.90	PASS
Band7	20MHz	16QAM	20850	100RB#0	20000~27000	-39.92	PASS
Band7	20MHz	16QAM	21100	100RB#0	0.009~0.15	-73.00	PASS
Band7	20MHz	16QAM	21100	100RB#0	0.15~30	-67.91	PASS
Band7	20MHz	16QAM	21100	100RB#0	30~1000	-66.59	PASS
Band7	20MHz	16QAM	21100	100RB#0	1000~20000	-46.31	PASS
Band7	20MHz	16QAM	21100	100RB#0	20000~27000	-39.58	PASS
Band7	20MHz	16QAM	21350	100RB#0	0.009~0.15	-72.85	PASS
Band7	20MHz	16QAM	21350	100RB#0	0.15~30	-67.12	PASS
Band7	20MHz	16QAM	21350	100RB#0	30~1000	-66.28	PASS
Band7	20MHz	16QAM	21350	100RB#0	1000~20000	-46.30	PASS
Band7	20MHz	16QAM	21350	100RB#0	20000~27000	-39.51	PASS

Test Graphs

