

FCC Appendix RF Test Data for LTE Band 7

Company: : Yulong Computer Telecommunication Scientific
(Shenzhen) Co., Ltd

EUT : Smart Phone

Model Number : K21

FCC ID : R38YLCPK21

Report No. : CTA25091901806

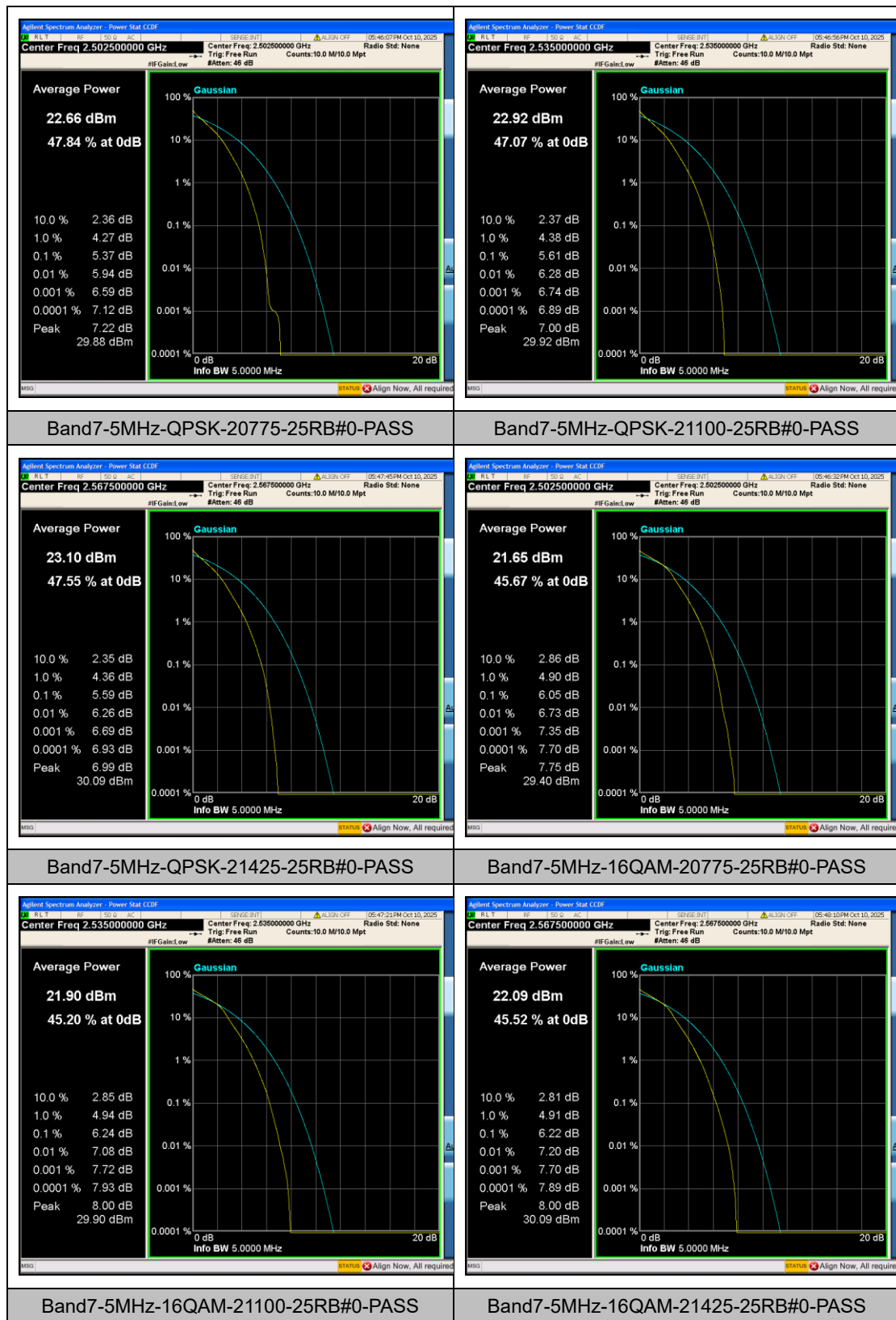
Reviewed By : Eric Wang

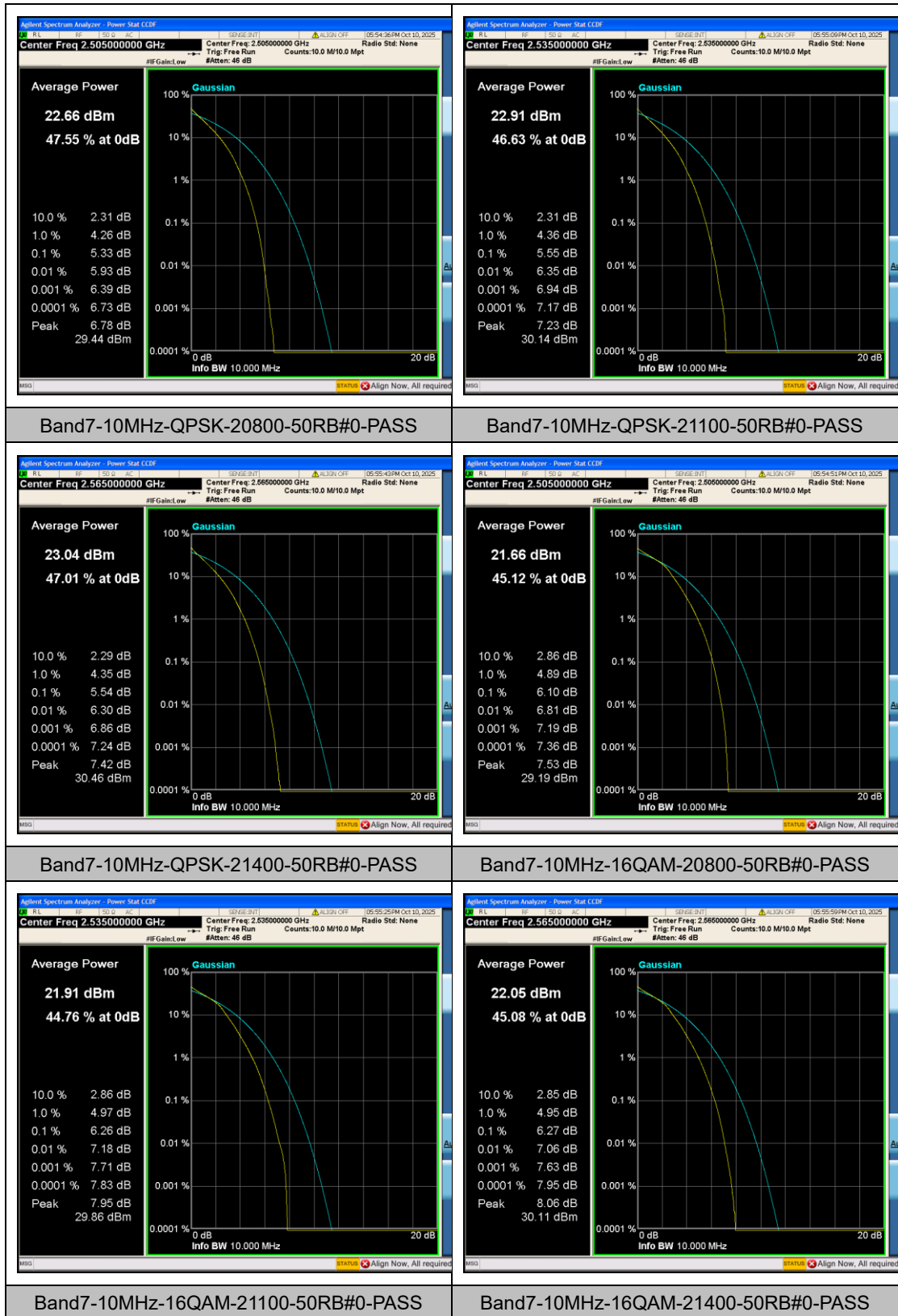
Appendix B: Peak-to-Average Ratio(CCDF)

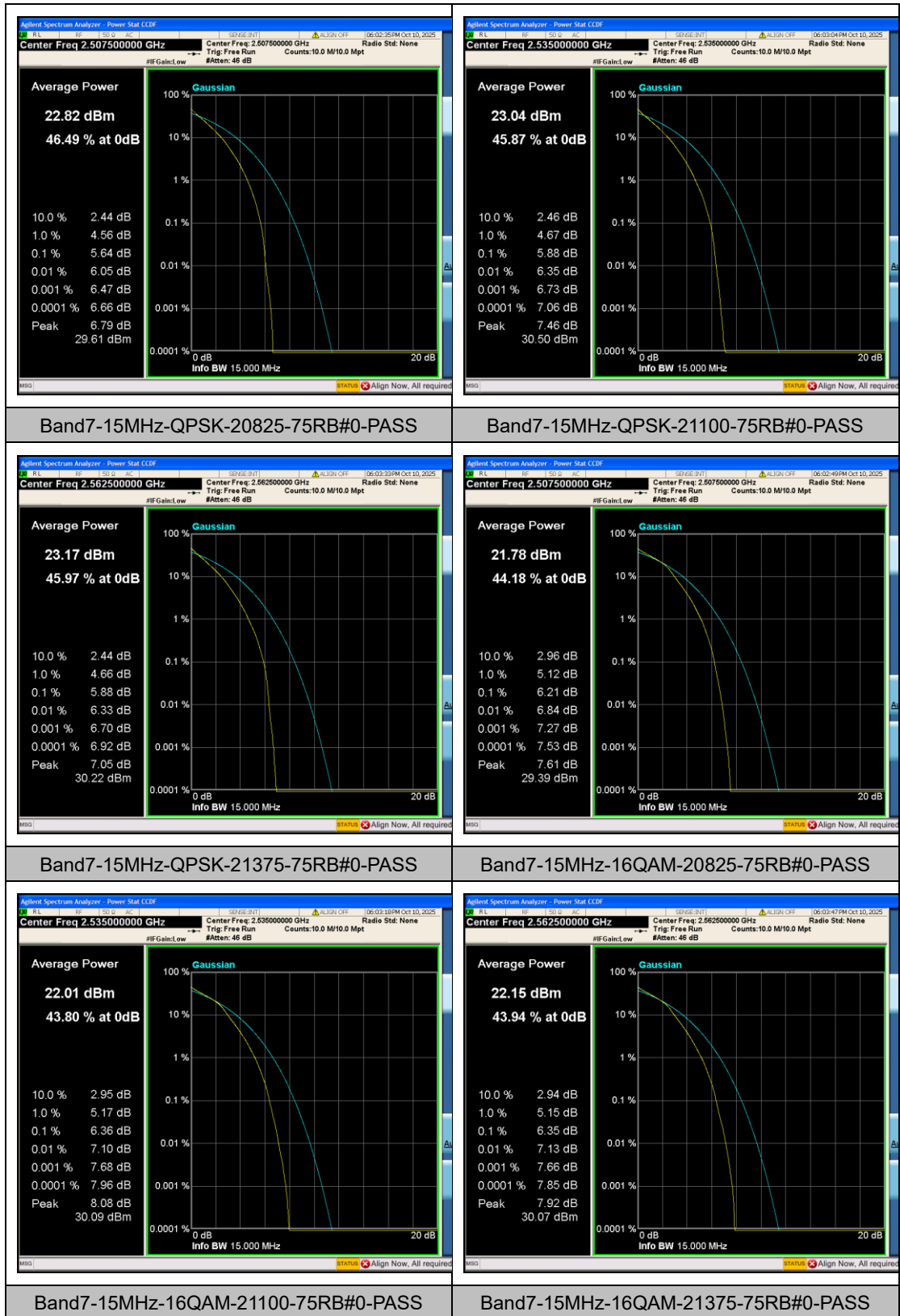
Test Result

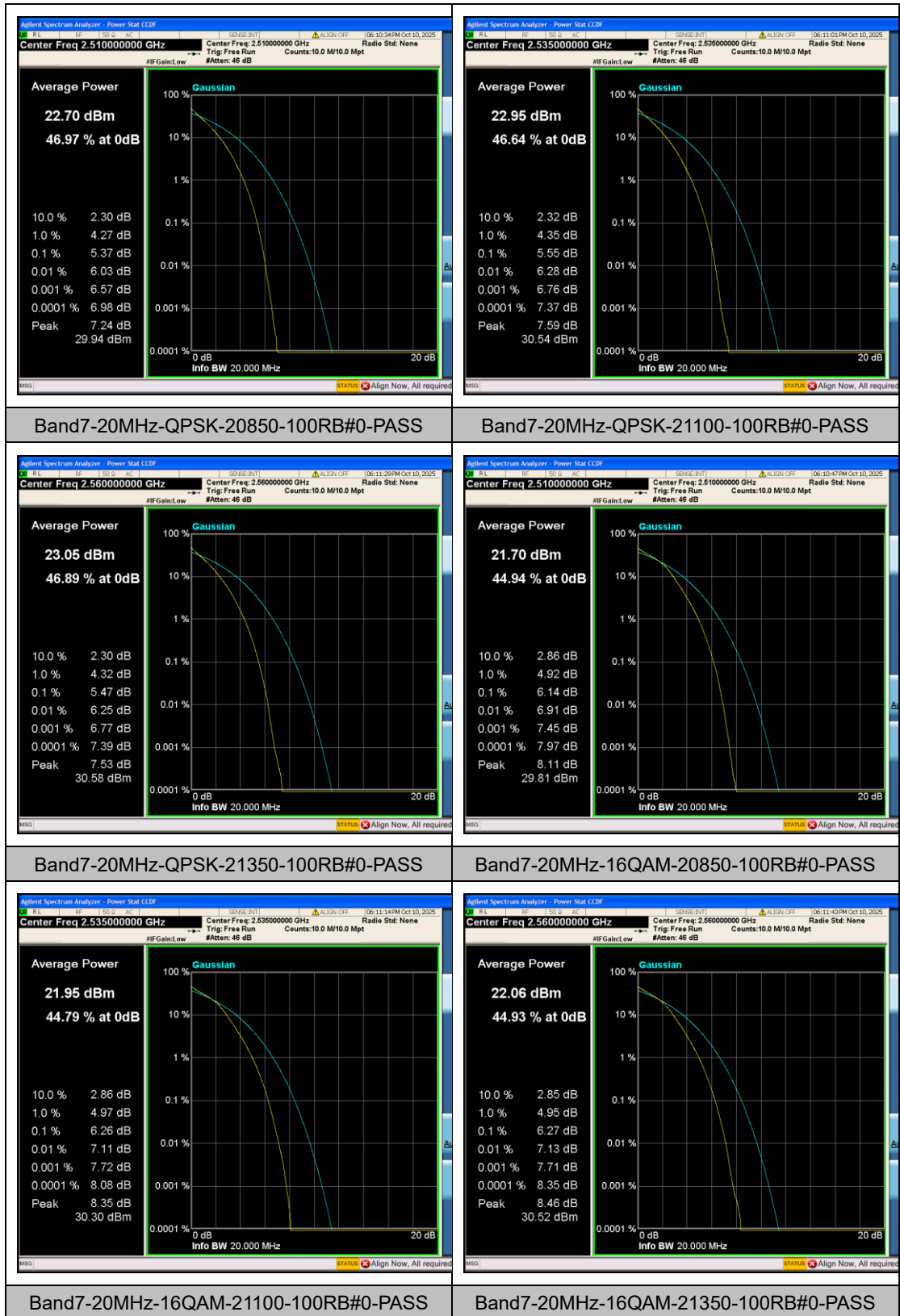
Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band7	5MHz	QPSK	20775	25RB#0	5.37	13	PASS
Band7	5MHz	QPSK	21100	25RB#0	5.61	13	PASS
Band7	5MHz	QPSK	21425	25RB#0	5.59	13	PASS
Band7	5MHz	16QAM	20775	25RB#0	6.05	13	PASS
Band7	5MHz	16QAM	21100	25RB#0	6.24	13	PASS
Band7	5MHz	16QAM	21425	25RB#0	6.22	13	PASS
Band7	10MHz	QPSK	20800	50RB#0	5.33	13	PASS
Band7	10MHz	QPSK	21100	50RB#0	5.55	13	PASS
Band7	10MHz	QPSK	21400	50RB#0	5.54	13	PASS
Band7	10MHz	16QAM	20800	50RB#0	6.10	13	PASS
Band7	10MHz	16QAM	21100	50RB#0	6.26	13	PASS
Band7	10MHz	16QAM	21400	50RB#0	6.27	13	PASS
Band7	15MHz	QPSK	20825	75RB#0	5.64	13	PASS
Band7	15MHz	QPSK	21100	75RB#0	5.88	13	PASS
Band7	15MHz	QPSK	21375	75RB#0	5.88	13	PASS
Band7	15MHz	16QAM	20825	75RB#0	6.21	13	PASS
Band7	15MHz	16QAM	21100	75RB#0	6.36	13	PASS
Band7	15MHz	16QAM	21375	75RB#0	6.35	13	PASS
Band7	20MHz	QPSK	20850	100RB#0	5.37	13	PASS
Band7	20MHz	QPSK	21100	100RB#0	5.55	13	PASS
Band7	20MHz	QPSK	21350	100RB#0	5.47	13	PASS
Band7	20MHz	16QAM	20850	100RB#0	6.14	13	PASS
Band7	20MHz	16QAM	21100	100RB#0	6.26	13	PASS
Band7	20MHz	16QAM	21350	100RB#0	6.27	13	PASS

Test Graphs







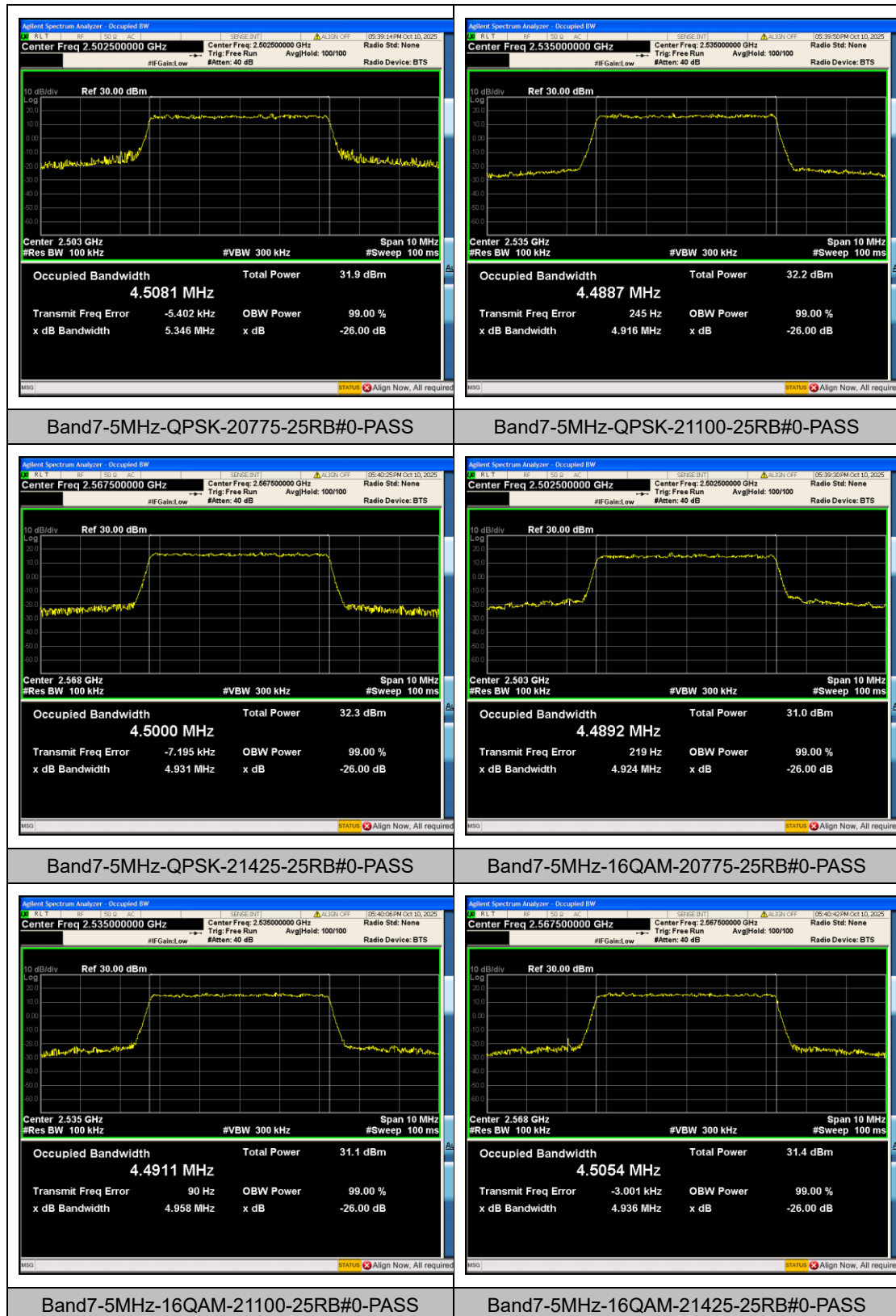


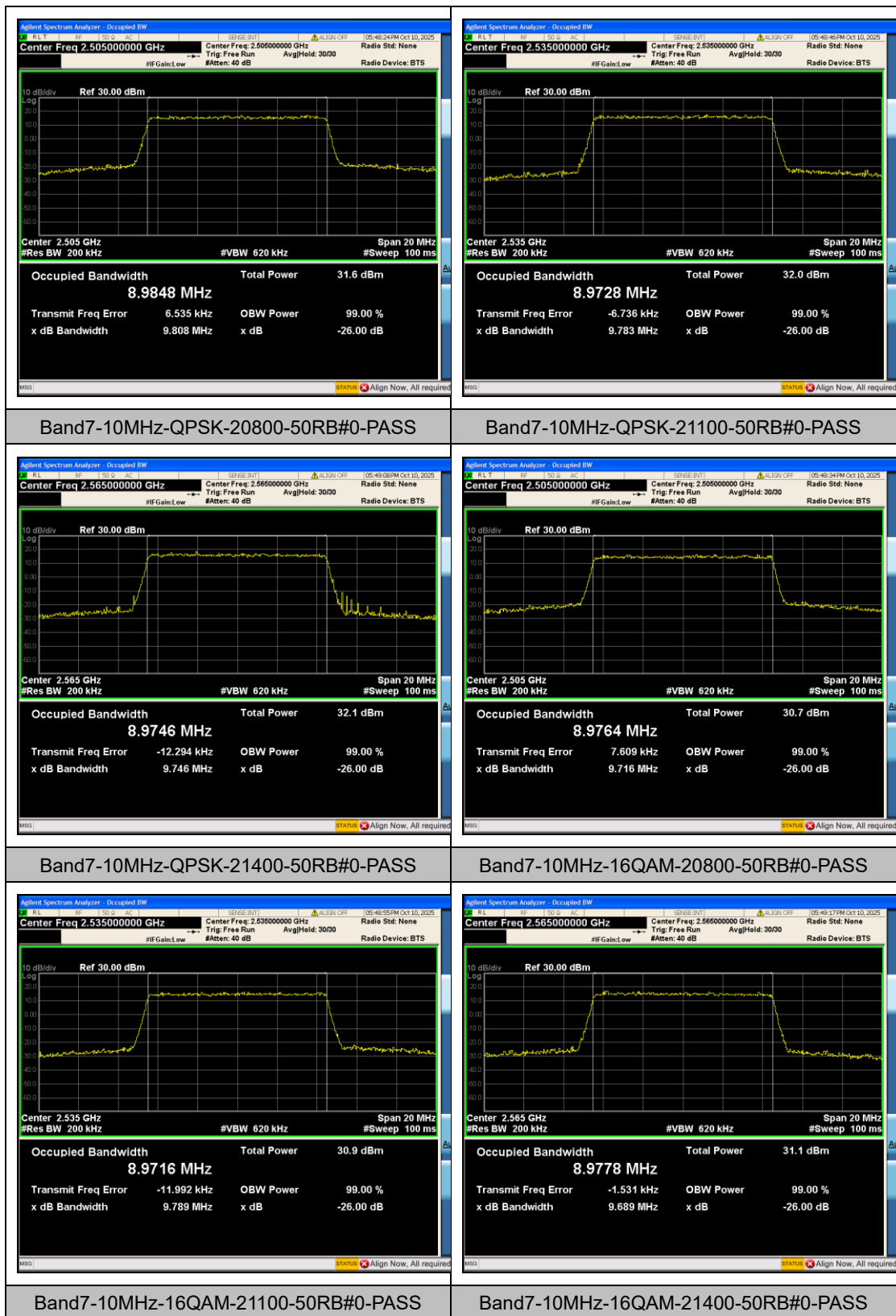
Appendix C: 26dB Bandwidth and Occupied Bandwidth

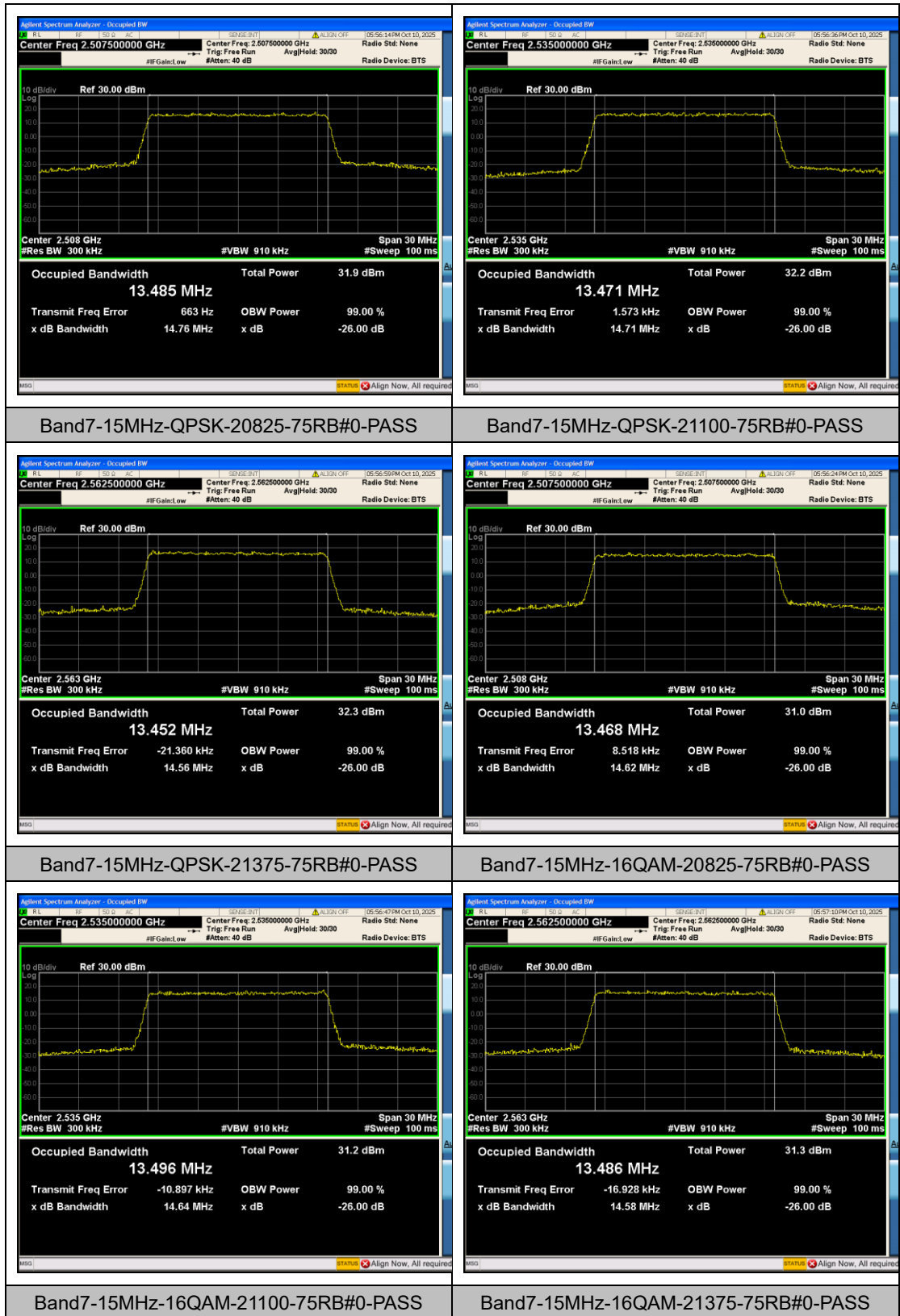
Test Result

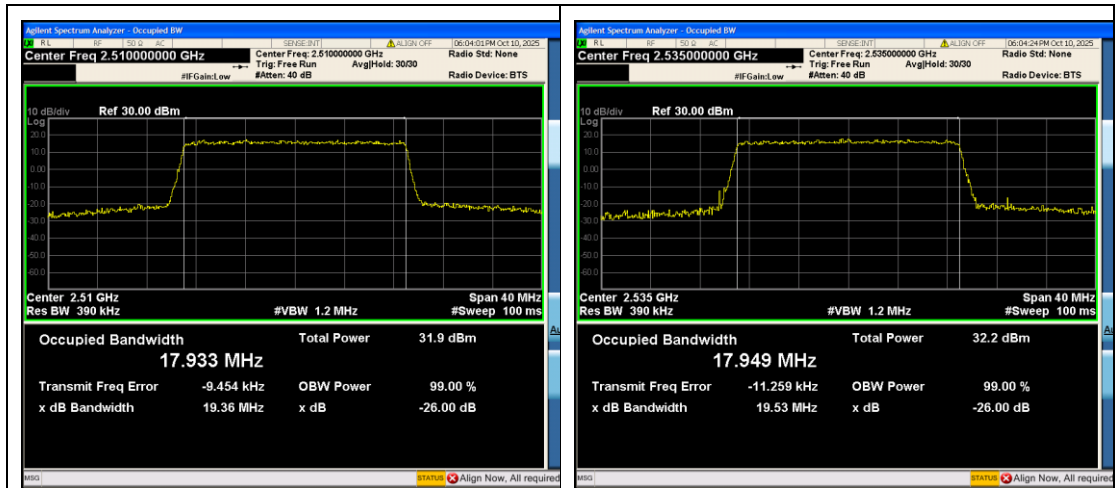
Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band7	5MHz	QPSK	20775	25RB#0	4.5081	5.346	PASS
Band7	5MHz	QPSK	21100	25RB#0	4.4887	4.916	PASS
Band7	5MHz	QPSK	21425	25RB#0	4.5000	4.931	PASS
Band7	5MHz	16QAM	20775	25RB#0	4.4892	4.924	PASS
Band7	5MHz	16QAM	21100	25RB#0	4.4911	4.958	PASS
Band7	5MHz	16QAM	21425	25RB#0	4.5054	4.936	PASS
Band7	10MHz	QPSK	20800	50RB#0	8.9848	9.808	PASS
Band7	10MHz	QPSK	21100	50RB#0	8.9728	9.783	PASS
Band7	10MHz	QPSK	21400	50RB#0	8.9746	9.746	PASS
Band7	10MHz	16QAM	20800	50RB#0	8.9764	9.716	PASS
Band7	10MHz	16QAM	21100	50RB#0	8.9716	9.789	PASS
Band7	10MHz	16QAM	21400	50RB#0	8.9778	9.689	PASS
Band7	15MHz	QPSK	20825	75RB#0	13.485	14.76	PASS
Band7	15MHz	QPSK	21100	75RB#0	13.471	14.71	PASS
Band7	15MHz	QPSK	21375	75RB#0	13.452	14.56	PASS
Band7	15MHz	16QAM	20825	75RB#0	13.468	14.62	PASS
Band7	15MHz	16QAM	21100	75RB#0	13.496	14.64	PASS
Band7	15MHz	16QAM	21375	75RB#0	13.486	14.58	PASS
Band7	20MHz	QPSK	20850	100RB#0	17.933	19.36	PASS
Band7	20MHz	QPSK	21100	100RB#0	17.949	19.53	PASS
Band7	20MHz	QPSK	21350	100RB#0	17.923	19.36	PASS
Band7	20MHz	16QAM	20850	100RB#0	17.980	19.36	PASS
Band7	20MHz	16QAM	21100	100RB#0	17.935	19.37	PASS
Band7	20MHz	16QAM	21350	100RB#0	17.963	19.32	PASS

Test Graphs









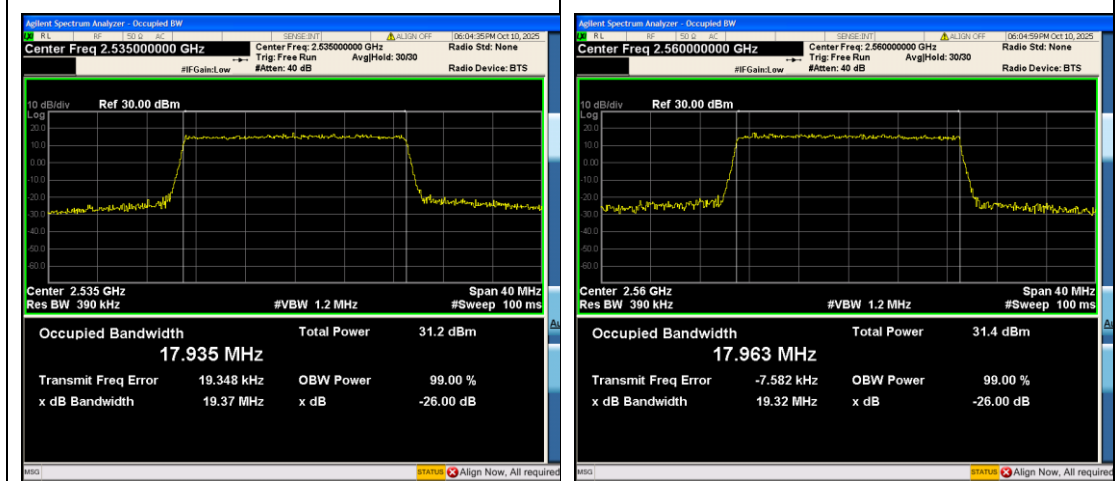
Band7-20MHz-QPSK-20850-100RB#0-PASS

Band7-20MHz-QPSK-21100-100RB#0-PASS



Band7-20MHz-QPSK-21350-100RB#0-PASS

Band7-20MHz-16QAM-20850-100RB#0-PASS



Band7-20MHz-16QAM-21100-100RB#0-PASS

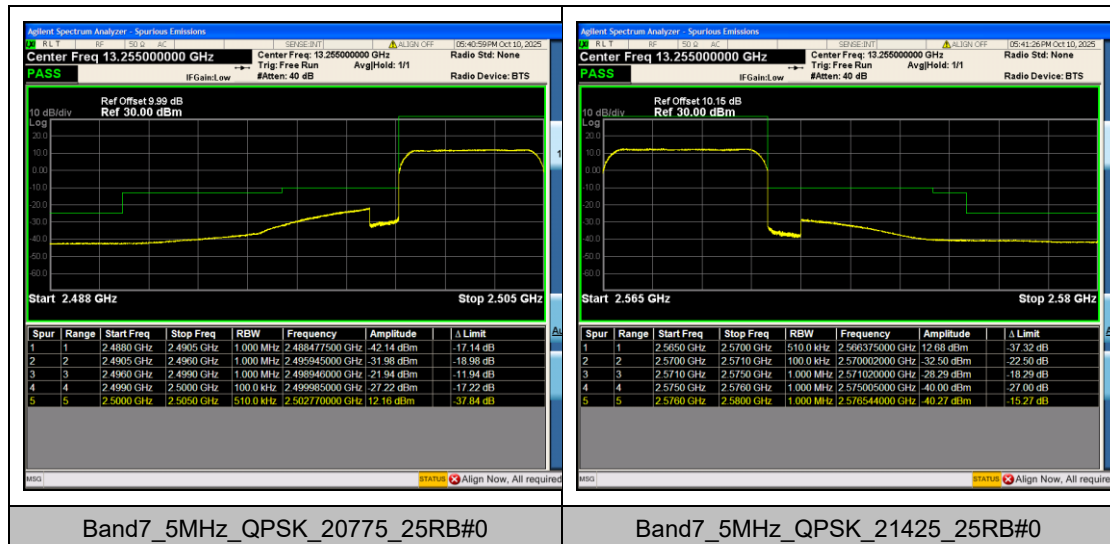
Band7-20MHz-16QAM-21350-100RB#0-PASS

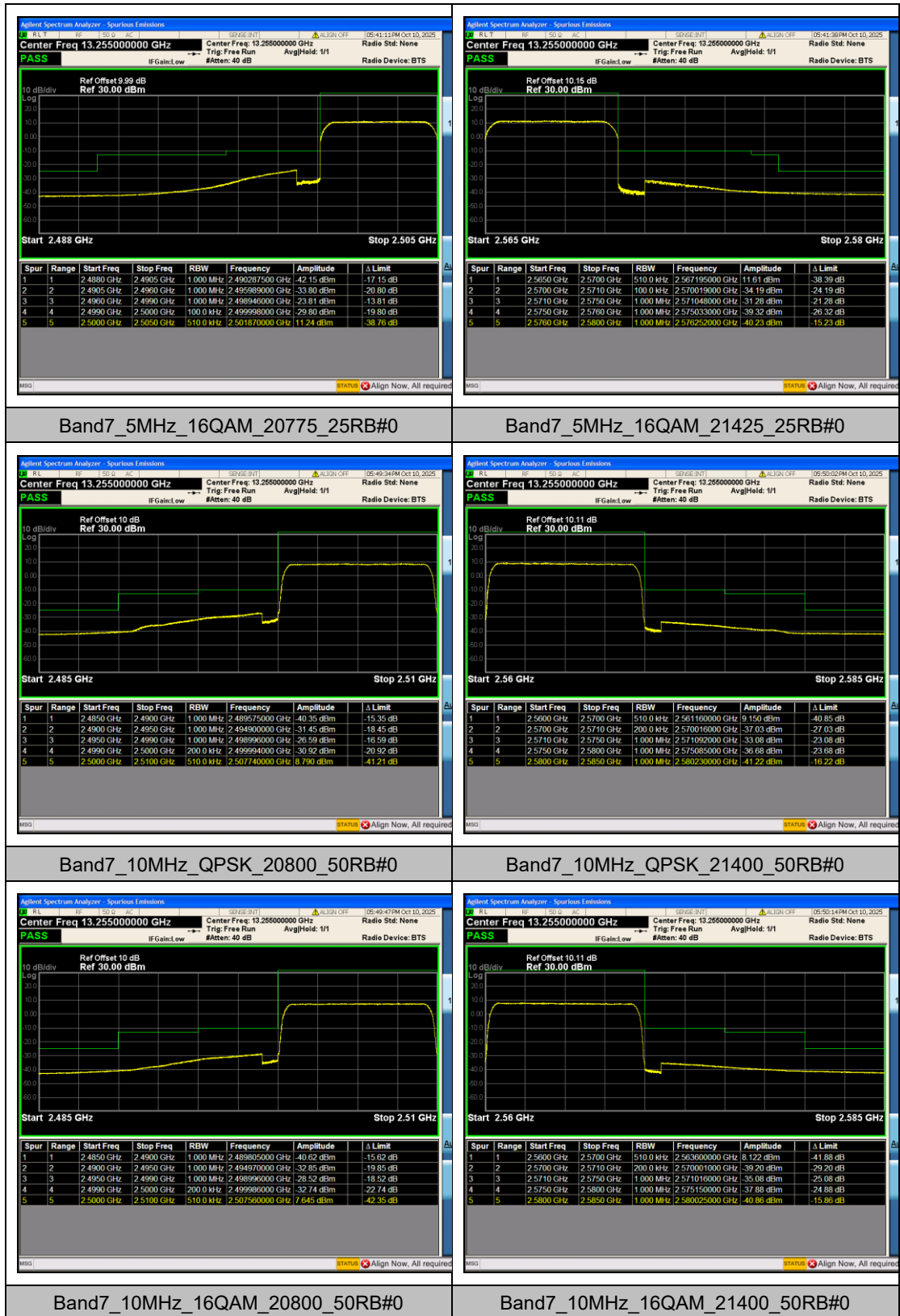
Appendix D: Band Edge

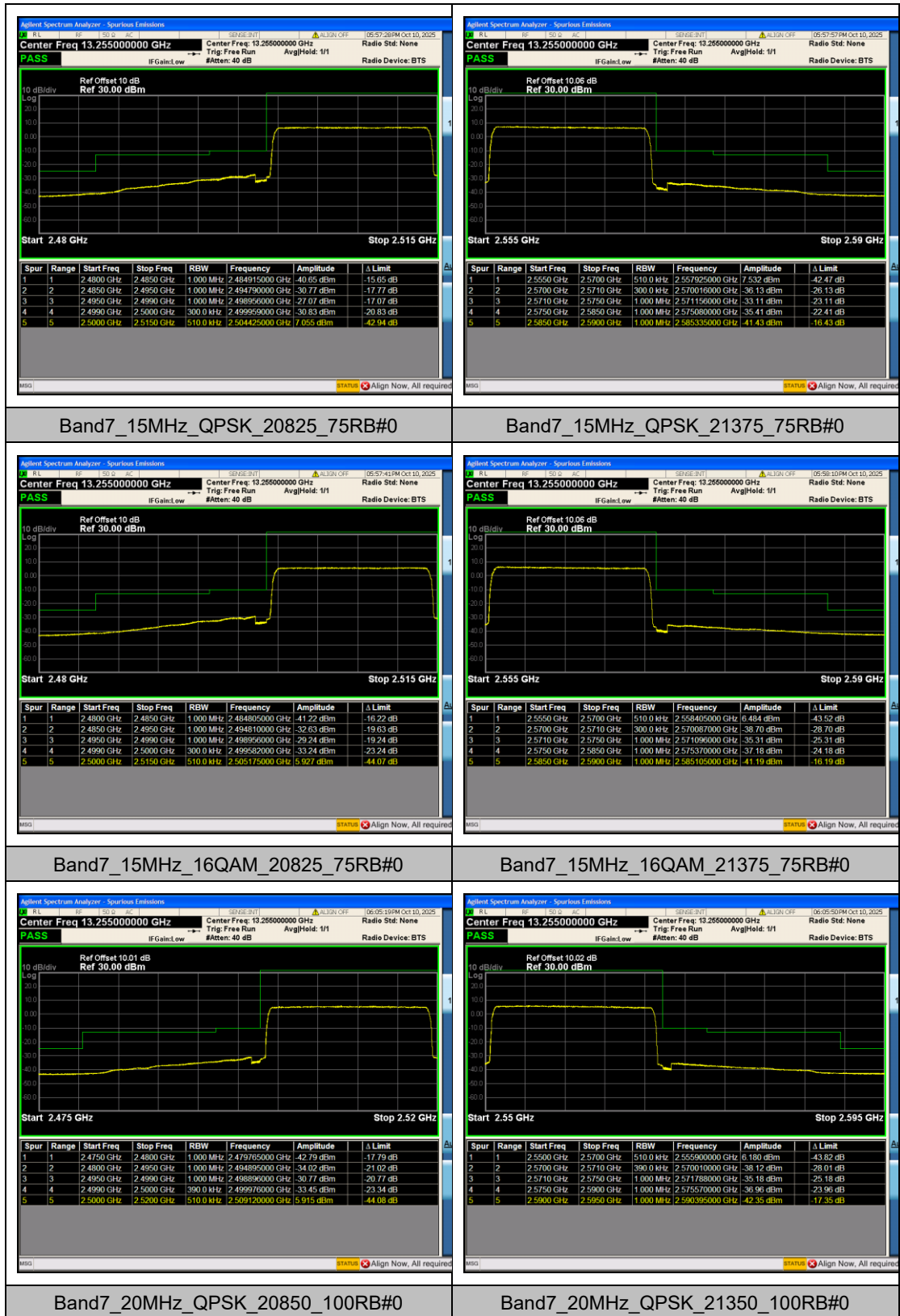
Test Result

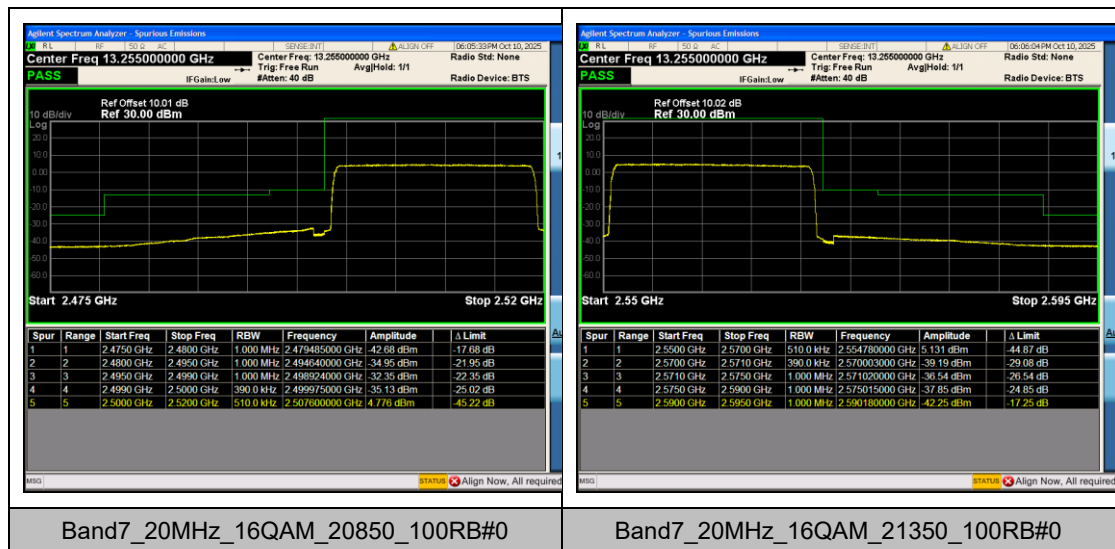
Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band7	5MHz	QPSK	20775	25RB#0	-21.94	PASS
Band7	5MHz	QPSK	21425	25RB#0	-40.27	PASS
Band7	5MHz	16QAM	20775	25RB#0	-23.81	PASS
Band7	5MHz	16QAM	21425	25RB#0	-40.23	PASS
Band7	10MHz	QPSK	20800	50RB#0	-40.35	PASS
Band7	10MHz	QPSK	21400	50RB#0	-41.22	PASS
Band7	10MHz	16QAM	20800	50RB#0	-40.62	PASS
Band7	10MHz	16QAM	21400	50RB#0	-40.86	PASS
Band7	15MHz	QPSK	20825	75RB#0	-40.65	PASS
Band7	15MHz	QPSK	21375	75RB#0	-41.43	PASS
Band7	15MHz	16QAM	20825	75RB#0	-41.22	PASS
Band7	15MHz	16QAM	21375	75RB#0	-41.19	PASS
Band7	20MHz	QPSK	20850	100RB#0	-42.79	PASS
Band7	20MHz	QPSK	21350	100RB#0	-42.35	PASS
Band7	20MHz	16QAM	20850	100RB#0	-42.68	PASS
Band7	20MHz	16QAM	21350	100RB#0	-42.25	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	-68.53	PASS
Band7	5MHz	QPSK	20775	25RB#0	0.15~30	-64.13	PASS
Band7	5MHz	QPSK	20775	25RB#0	30~1000	-61.93	PASS
Band7	5MHz	QPSK	20775	25RB#0	1000~20000	-38.31	PASS
Band7	5MHz	QPSK	20775	25RB#0	20000~27000	-31.76	PASS
Band7	5MHz	QPSK	21100	25RB#0	0.009~0.15	-66.60	PASS
Band7	5MHz	QPSK	21100	25RB#0	0.15~30	-66.68	PASS
Band7	5MHz	QPSK	21100	25RB#0	30~1000	-61.99	PASS
Band7	5MHz	QPSK	21100	25RB#0	1000~20000	-38.29	PASS
Band7	5MHz	QPSK	21100	25RB#0	20000~27000	-31.58	PASS
Band7	5MHz	QPSK	21425	25RB#0	0.009~0.15	-68.78	PASS
Band7	5MHz	QPSK	21425	25RB#0	0.15~30	-62.86	PASS
Band7	5MHz	QPSK	21425	25RB#0	30~1000	-62.19	PASS
Band7	5MHz	QPSK	21425	25RB#0	1000~20000	-38.07	PASS
Band7	5MHz	QPSK	21425	25RB#0	20000~27000	-31.65	PASS
Band7	5MHz	16QAM	20775	25RB#0	0.009~0.15	-69.81	PASS
Band7	5MHz	16QAM	20775	25RB#0	0.15~30	-64.27	PASS
Band7	5MHz	16QAM	20775	25RB#0	30~1000	-62.28	PASS
Band7	5MHz	16QAM	20775	25RB#0	1000~20000	-38.05	PASS
Band7	5MHz	16QAM	20775	25RB#0	20000~27000	-32.04	PASS
Band7	5MHz	16QAM	21100	25RB#0	0.009~0.15	-67.62	PASS
Band7	5MHz	16QAM	21100	25RB#0	0.15~30	-62.39	PASS
Band7	5MHz	16QAM	21100	25RB#0	30~1000	-62.34	PASS
Band7	5MHz	16QAM	21100	25RB#0	1000~20000	-37.63	PASS
Band7	5MHz	16QAM	21100	25RB#0	20000~27000	-31.80	PASS
Band7	5MHz	16QAM	21425	25RB#0	0.009~0.15	-65.55	PASS
Band7	5MHz	16QAM	21425	25RB#0	0.15~30	-65.23	PASS
Band7	5MHz	16QAM	21425	25RB#0	30~1000	-62.49	PASS
Band7	5MHz	16QAM	21425	25RB#0	1000~20000	-38.50	PASS
Band7	5MHz	16QAM	21425	25RB#0	20000~27000	-31.61	PASS
Band7	10MHz	QPSK	20800	50RB#0	0.009~0.15	-65.07	PASS
Band7	10MHz	QPSK	20800	50RB#0	0.15~30	-64.83	PASS
Band7	10MHz	QPSK	20800	50RB#0	30~1000	-62.39	PASS
Band7	10MHz	QPSK	20800	50RB#0	1000~20000	-38.56	PASS
Band7	10MHz	QPSK	20800	50RB#0	20000~27000	-31.93	PASS
Band7	10MHz	QPSK	21100	50RB#0	0.009~0.15	-68.05	PASS

Band7	10MHz	QPSK	21100	50RB#0	0.15~30	-62.37	PASS
Band7	10MHz	QPSK	21100	50RB#0	30~1000	-62.22	PASS
Band7	10MHz	QPSK	21100	50RB#0	1000~20000	-38.41	PASS
Band7	10MHz	QPSK	21100	50RB#0	20000~27000	-31.27	PASS
Band7	10MHz	QPSK	21400	50RB#0	0.009~0.15	-66.01	PASS
Band7	10MHz	QPSK	21400	50RB#0	0.15~30	-63.59	PASS
Band7	10MHz	QPSK	21400	50RB#0	30~1000	-62.22	PASS
Band7	10MHz	QPSK	21400	50RB#0	1000~20000	-38.64	PASS
Band7	10MHz	QPSK	21400	50RB#0	20000~27000	-31.87	PASS
Band7	10MHz	16QAM	20800	50RB#0	0.009~0.15	-69.24	PASS
Band7	10MHz	16QAM	20800	50RB#0	0.15~30	-62.22	PASS
Band7	10MHz	16QAM	20800	50RB#0	30~1000	-62.21	PASS
Band7	10MHz	16QAM	20800	50RB#0	1000~20000	-38.65	PASS
Band7	10MHz	16QAM	20800	50RB#0	20000~27000	-31.77	PASS
Band7	10MHz	16QAM	21100	50RB#0	0.009~0.15	-68.88	PASS
Band7	10MHz	16QAM	21100	50RB#0	0.15~30	-65.44	PASS
Band7	10MHz	16QAM	21100	50RB#0	30~1000	-62.09	PASS
Band7	10MHz	16QAM	21100	50RB#0	1000~20000	-38.17	PASS
Band7	10MHz	16QAM	21100	50RB#0	20000~27000	-31.86	PASS
Band7	10MHz	16QAM	21400	50RB#0	0.009~0.15	-66.98	PASS
Band7	10MHz	16QAM	21400	50RB#0	0.15~30	-63.85	PASS
Band7	10MHz	16QAM	21400	50RB#0	30~1000	-62.45	PASS
Band7	10MHz	16QAM	21400	50RB#0	1000~20000	-38.64	PASS
Band7	10MHz	16QAM	21400	50RB#0	20000~27000	-31.80	PASS
Band7	15MHz	QPSK	20825	75RB#0	0.009~0.15	-68.34	PASS
Band7	15MHz	QPSK	20825	75RB#0	0.15~30	-62.53	PASS
Band7	15MHz	QPSK	20825	75RB#0	30~1000	-62.38	PASS
Band7	15MHz	QPSK	20825	75RB#0	1000~20000	-38.35	PASS
Band7	15MHz	QPSK	20825	75RB#0	20000~27000	-31.83	PASS
Band7	15MHz	QPSK	21100	75RB#0	0.009~0.15	-66.73	PASS
Band7	15MHz	QPSK	21100	75RB#0	0.15~30	-63.74	PASS
Band7	15MHz	QPSK	21100	75RB#0	30~1000	-62.25	PASS
Band7	15MHz	QPSK	21100	75RB#0	1000~20000	-37.90	PASS
Band7	15MHz	QPSK	21100	75RB#0	20000~27000	-31.85	PASS
Band7	15MHz	QPSK	21375	75RB#0	0.009~0.15	-64.42	PASS
Band7	15MHz	QPSK	21375	75RB#0	0.15~30	-63.91	PASS
Band7	15MHz	QPSK	21375	75RB#0	30~1000	-62.07	PASS
Band7	15MHz	QPSK	21375	75RB#0	1000~20000	-38.22	PASS
Band7	15MHz	QPSK	21375	75RB#0	20000~27000	-31.65	PASS
Band7	15MHz	16QAM	20825	75RB#0	0.009~0.15	-67.29	PASS
Band7	15MHz	16QAM	20825	75RB#0	0.15~30	-63.74	PASS
Band7	15MHz	16QAM	20825	75RB#0	30~1000	-62.26	PASS
Band7	15MHz	16QAM	20825	75RB#0	1000~20000	-38.11	PASS

Band7	15MHz	16QAM	20825	75RB#0	20000~27000	-31.78	PASS
Band7	15MHz	16QAM	21100	75RB#0	0.009~0.15	-68.05	PASS
Band7	15MHz	16QAM	21100	75RB#0	0.15~30	-62.97	PASS
Band7	15MHz	16QAM	21100	75RB#0	30~1000	-62.03	PASS
Band7	15MHz	16QAM	21100	75RB#0	1000~20000	-38.45	PASS
Band7	15MHz	16QAM	21100	75RB#0	20000~27000	-31.65	PASS
Band7	15MHz	16QAM	21375	75RB#0	0.009~0.15	-66.32	PASS
Band7	15MHz	16QAM	21375	75RB#0	0.15~30	-61.46	PASS
Band7	15MHz	16QAM	21375	75RB#0	30~1000	-61.93	PASS
Band7	15MHz	16QAM	21375	75RB#0	1000~20000	-38.19	PASS
Band7	15MHz	16QAM	21375	75RB#0	20000~27000	-31.92	PASS
Band7	20MHz	QPSK	20850	100RB#0	0.009~0.15	-67.18	PASS
Band7	20MHz	QPSK	20850	100RB#0	0.15~30	-62.97	PASS
Band7	20MHz	QPSK	20850	100RB#0	30~1000	-62.20	PASS
Band7	20MHz	QPSK	20850	100RB#0	1000~20000	-38.23	PASS
Band7	20MHz	QPSK	20850	100RB#0	20000~27000	-31.76	PASS
Band7	20MHz	QPSK	21100	100RB#0	0.009~0.15	-67.91	PASS
Band7	20MHz	QPSK	21100	100RB#0	0.15~30	-63.67	PASS
Band7	20MHz	QPSK	21100	100RB#0	30~1000	-61.95	PASS
Band7	20MHz	QPSK	21100	100RB#0	1000~20000	-38.49	PASS
Band7	20MHz	QPSK	21100	100RB#0	20000~27000	-31.70	PASS
Band7	20MHz	QPSK	21350	100RB#0	0.009~0.15	-66.63	PASS
Band7	20MHz	QPSK	21350	100RB#0	0.15~30	-63.31	PASS
Band7	20MHz	QPSK	21350	100RB#0	30~1000	-62.01	PASS
Band7	20MHz	QPSK	21350	100RB#0	1000~20000	-37.97	PASS
Band7	20MHz	QPSK	21350	100RB#0	20000~27000	-31.98	PASS
Band7	20MHz	16QAM	20850	100RB#0	0.009~0.15	-67.94	PASS
Band7	20MHz	16QAM	20850	100RB#0	0.15~30	-63.76	PASS
Band7	20MHz	16QAM	20850	100RB#0	30~1000	-62.35	PASS
Band7	20MHz	16QAM	20850	100RB#0	1000~20000	-38.25	PASS
Band7	20MHz	16QAM	20850	100RB#0	20000~27000	-31.96	PASS
Band7	20MHz	16QAM	21100	100RB#0	0.009~0.15	-68.88	PASS
Band7	20MHz	16QAM	21100	100RB#0	0.15~30	-64.11	PASS
Band7	20MHz	16QAM	21100	100RB#0	30~1000	-62.15	PASS
Band7	20MHz	16QAM	21100	100RB#0	1000~20000	-38.54	PASS
Band7	20MHz	16QAM	21100	100RB#0	20000~27000	-31.96	PASS
Band7	20MHz	16QAM	21350	100RB#0	0.009~0.15	-65.44	PASS
Band7	20MHz	16QAM	21350	100RB#0	0.15~30	-63.90	PASS
Band7	20MHz	16QAM	21350	100RB#0	30~1000	-62.08	PASS
Band7	20MHz	16QAM	21350	100RB#0	1000~20000	-38.32	PASS
Band7	20MHz	16QAM	21350	100RB#0	20000~27000	-31.74	PASS