

FCC Appendix RF Test Data for LTE Band 71

FCC ID : 2BVLN-QS

Company : Wuhan Qinggou Intelligent Technology Co., Ltd.

EUT : Qingo AI Vending

Model Number : QS-779CREW(G)-US

Report No. : CTA26030400807

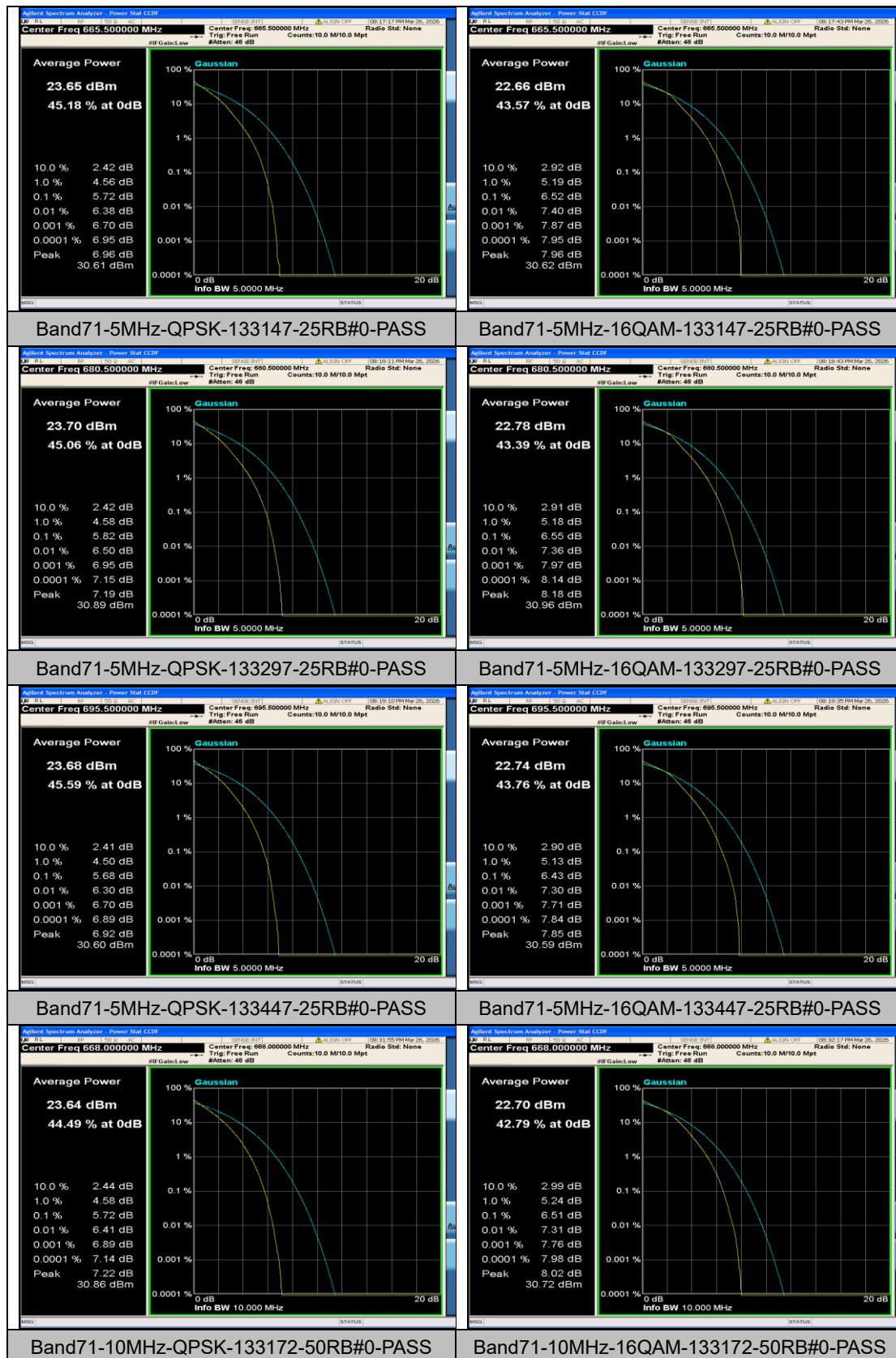
Reviewed By : Eric Wang

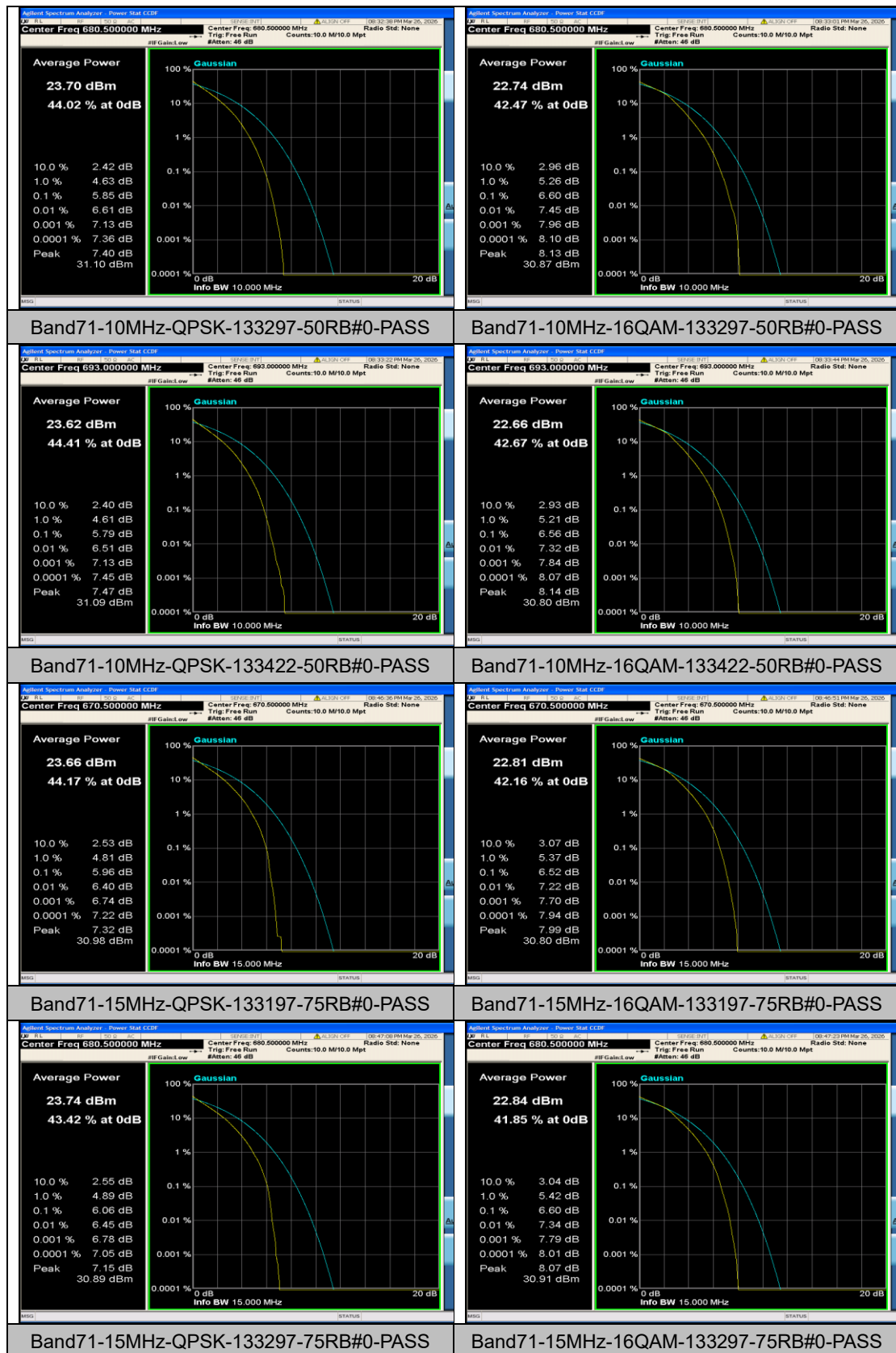
Appendix B: Peak-to-Average Ratio(CCDF)

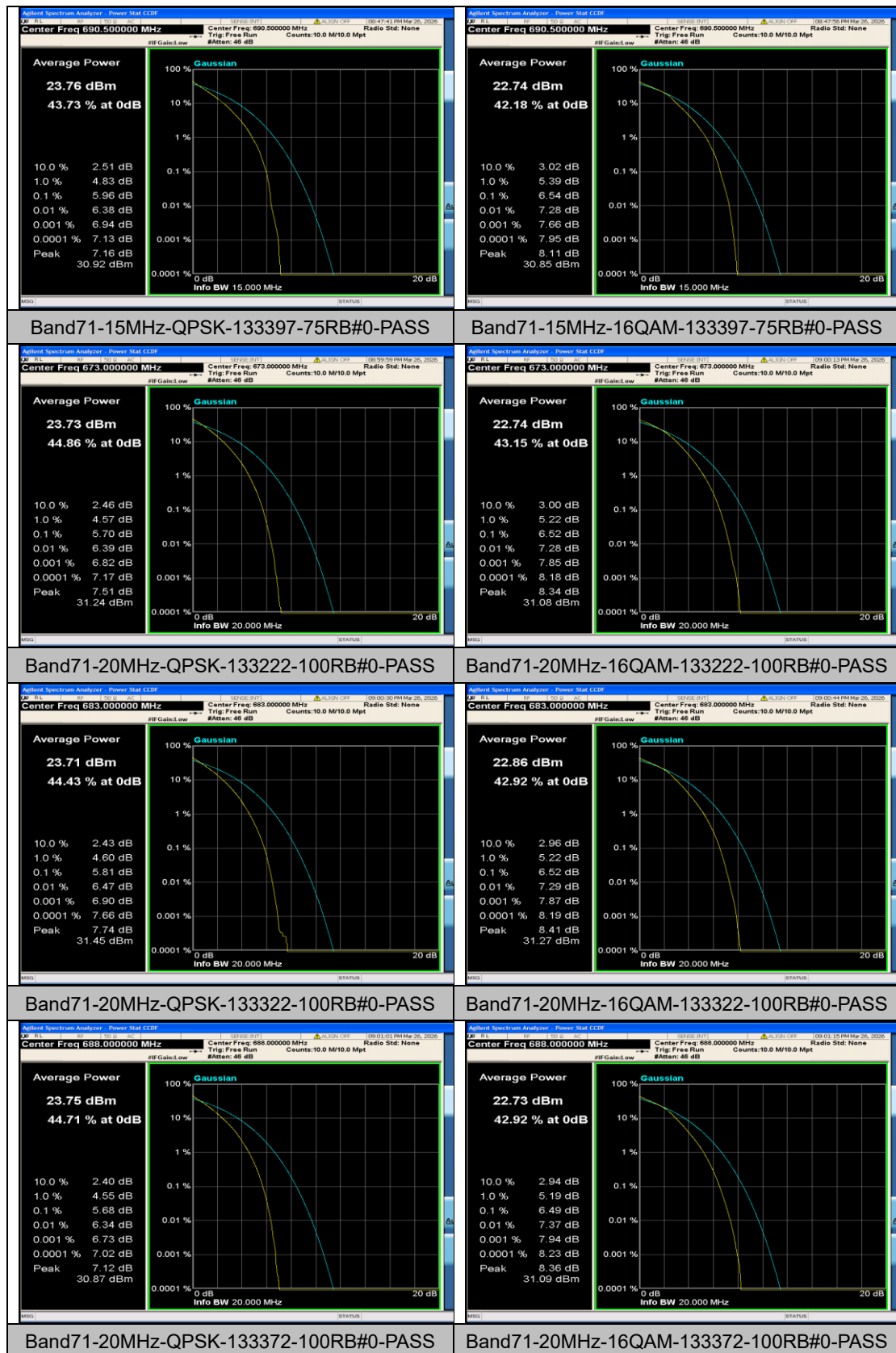
Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band71	5MHz	QPSK	133147	25RB#0	5.72	13	PASS
Band71	5MHz	16QAM	133147	25RB#0	6.52	13	PASS
Band71	5MHz	QPSK	133297	25RB#0	5.82	13	PASS
Band71	5MHz	16QAM	133297	25RB#0	6.55	13	PASS
Band71	5MHz	QPSK	133447	25RB#0	5.68	13	PASS
Band71	5MHz	16QAM	133447	25RB#0	6.43	13	PASS
Band71	10MHz	QPSK	133172	50RB#0	5.72	13	PASS
Band71	10MHz	16QAM	133172	50RB#0	6.51	13	PASS
Band71	10MHz	QPSK	133297	50RB#0	5.85	13	PASS
Band71	10MHz	16QAM	133297	50RB#0	6.60	13	PASS
Band71	10MHz	QPSK	133422	50RB#0	5.79	13	PASS
Band71	10MHz	16QAM	133422	50RB#0	6.56	13	PASS
Band71	15MHz	QPSK	133197	75RB#0	5.96	13	PASS
Band71	15MHz	16QAM	133197	75RB#0	6.52	13	PASS
Band71	15MHz	QPSK	133297	75RB#0	6.06	13	PASS
Band71	15MHz	16QAM	133297	75RB#0	6.60	13	PASS
Band71	15MHz	QPSK	133397	75RB#0	5.96	13	PASS
Band71	15MHz	16QAM	133397	75RB#0	6.54	13	PASS
Band71	20MHz	QPSK	133222	100RB#0	5.70	13	PASS
Band71	20MHz	16QAM	133222	100RB#0	6.52	13	PASS
Band71	20MHz	QPSK	133322	100RB#0	5.81	13	PASS
Band71	20MHz	16QAM	133322	100RB#0	6.52	13	PASS
Band71	20MHz	QPSK	133372	100RB#0	5.68	13	PASS
Band71	20MHz	16QAM	133372	100RB#0	6.49	13	PASS

Test Graphs





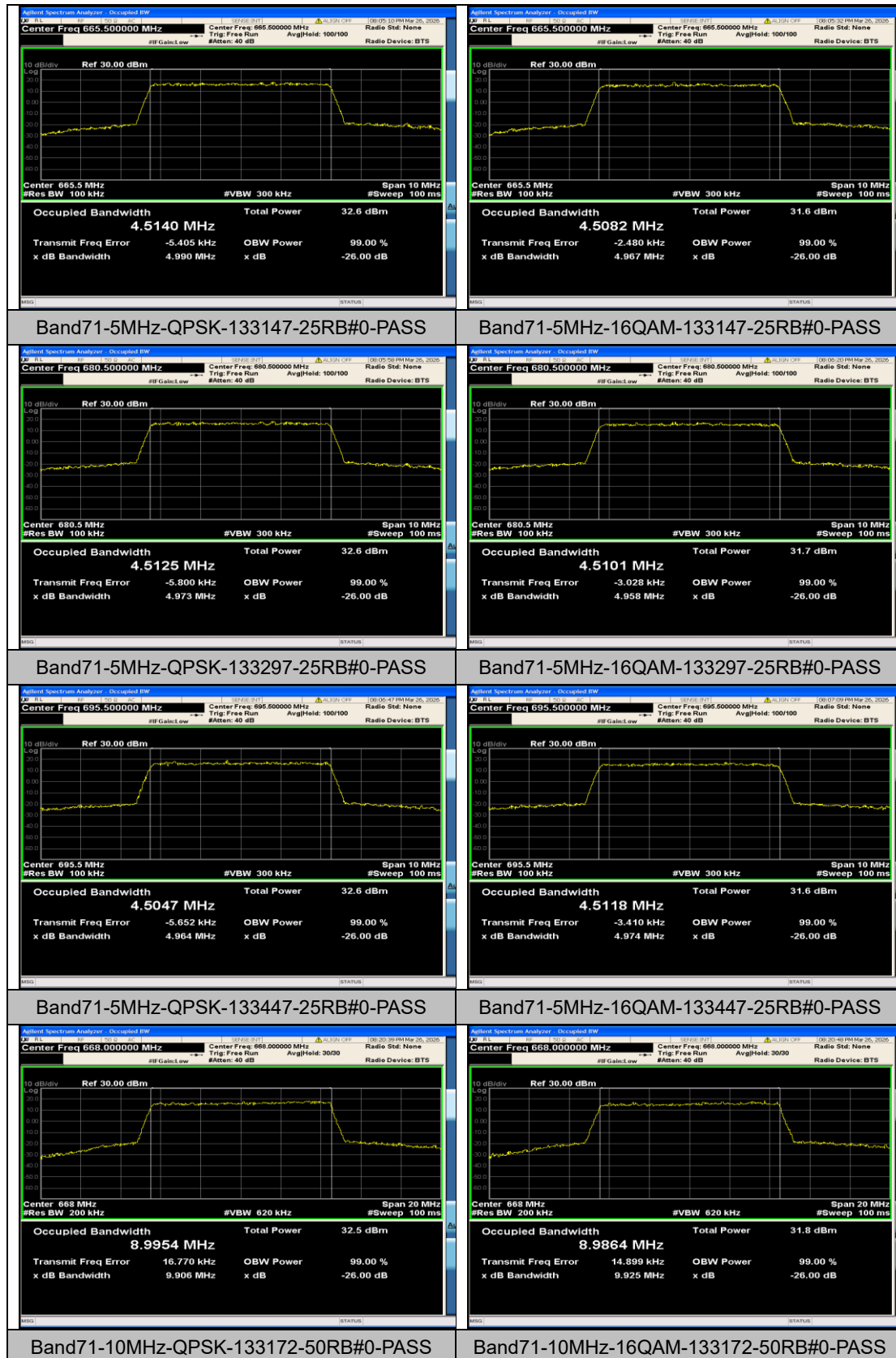


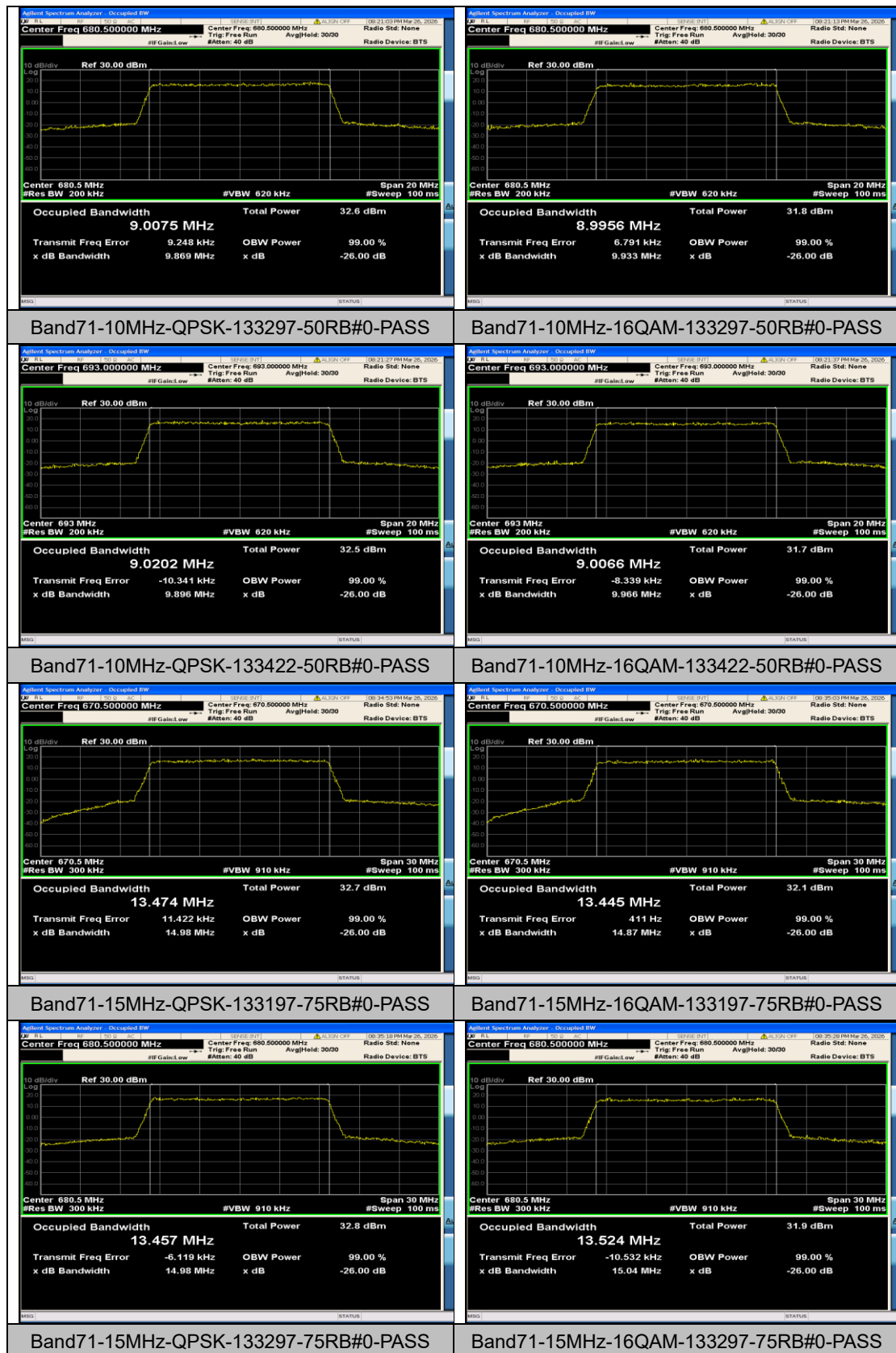
Appendix C: 26dB Bandwidth and Occupied Bandwidth

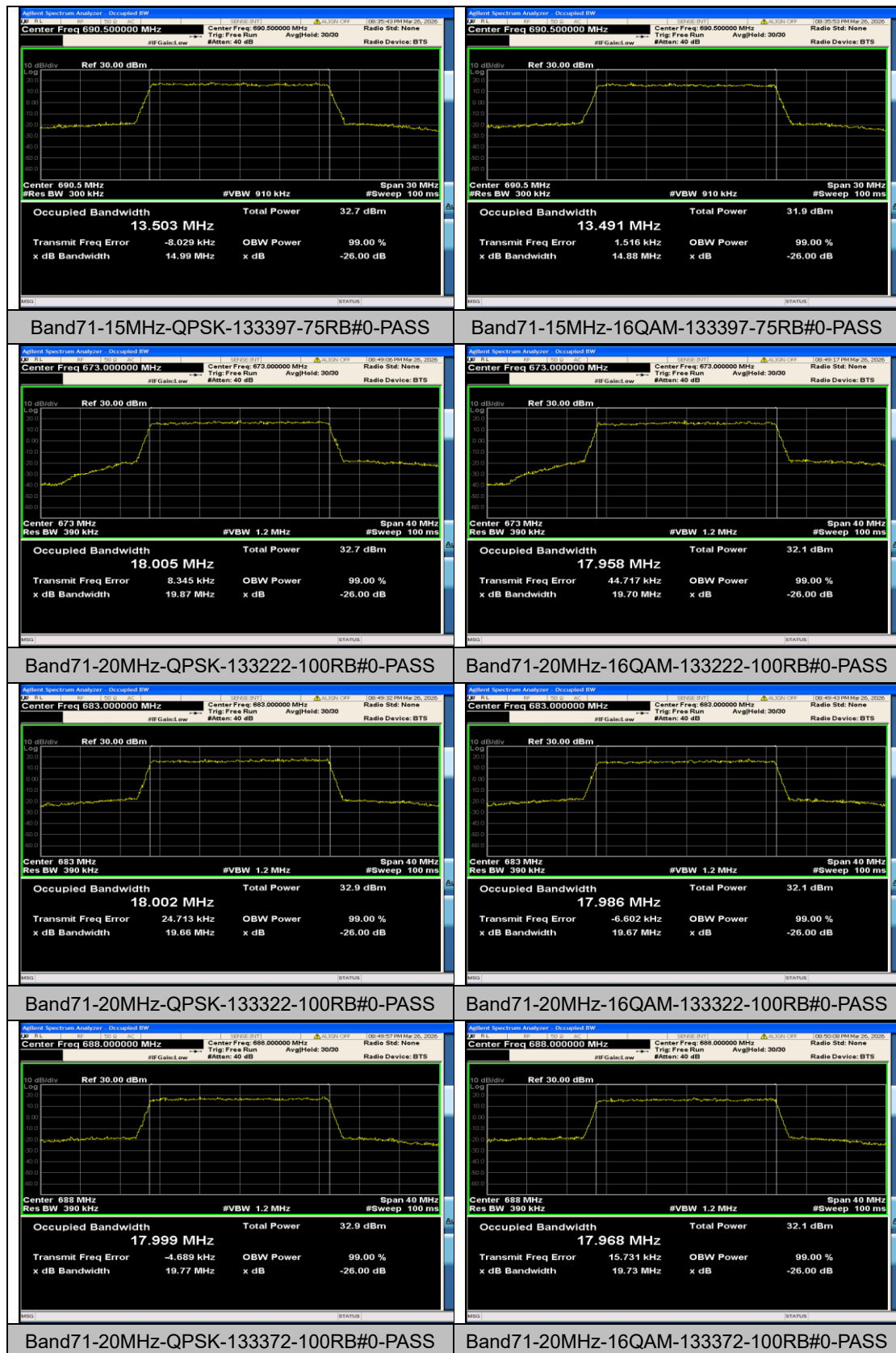
Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band71	5MHz	QPSK	133147	25RB#0	4.5140	4.990	PASS
Band71	5MHz	16QAM	133147	25RB#0	4.5082	4.967	PASS
Band71	5MHz	QPSK	133297	25RB#0	4.5125	4.973	PASS
Band71	5MHz	16QAM	133297	25RB#0	4.5101	4.958	PASS
Band71	5MHz	QPSK	133447	25RB#0	4.5047	4.964	PASS
Band71	5MHz	16QAM	133447	25RB#0	4.5118	4.974	PASS
Band71	10MHz	QPSK	133172	50RB#0	8.9954	9.906	PASS
Band71	10MHz	16QAM	133172	50RB#0	8.9864	9.925	PASS
Band71	10MHz	QPSK	133297	50RB#0	9.0075	9.869	PASS
Band71	10MHz	16QAM	133297	50RB#0	8.9956	9.933	PASS
Band71	10MHz	QPSK	133422	50RB#0	9.0202	9.896	PASS
Band71	10MHz	16QAM	133422	50RB#0	9.0066	9.966	PASS
Band71	15MHz	QPSK	133197	75RB#0	13.474	14.98	PASS
Band71	15MHz	16QAM	133197	75RB#0	13.445	14.87	PASS
Band71	15MHz	QPSK	133297	75RB#0	13.457	14.98	PASS
Band71	15MHz	16QAM	133297	75RB#0	13.524	15.04	PASS
Band71	15MHz	QPSK	133397	75RB#0	13.503	14.99	PASS
Band71	15MHz	16QAM	133397	75RB#0	13.491	14.88	PASS
Band71	20MHz	QPSK	133222	100RB#0	18.005	19.87	PASS
Band71	20MHz	16QAM	133222	100RB#0	17.958	19.70	PASS
Band71	20MHz	QPSK	133322	100RB#0	18.002	19.66	PASS
Band71	20MHz	16QAM	133322	100RB#0	17.986	19.67	PASS
Band71	20MHz	QPSK	133372	100RB#0	17.999	19.77	PASS
Band71	20MHz	16QAM	133372	100RB#0	17.968	19.73	PASS

Test Graphs





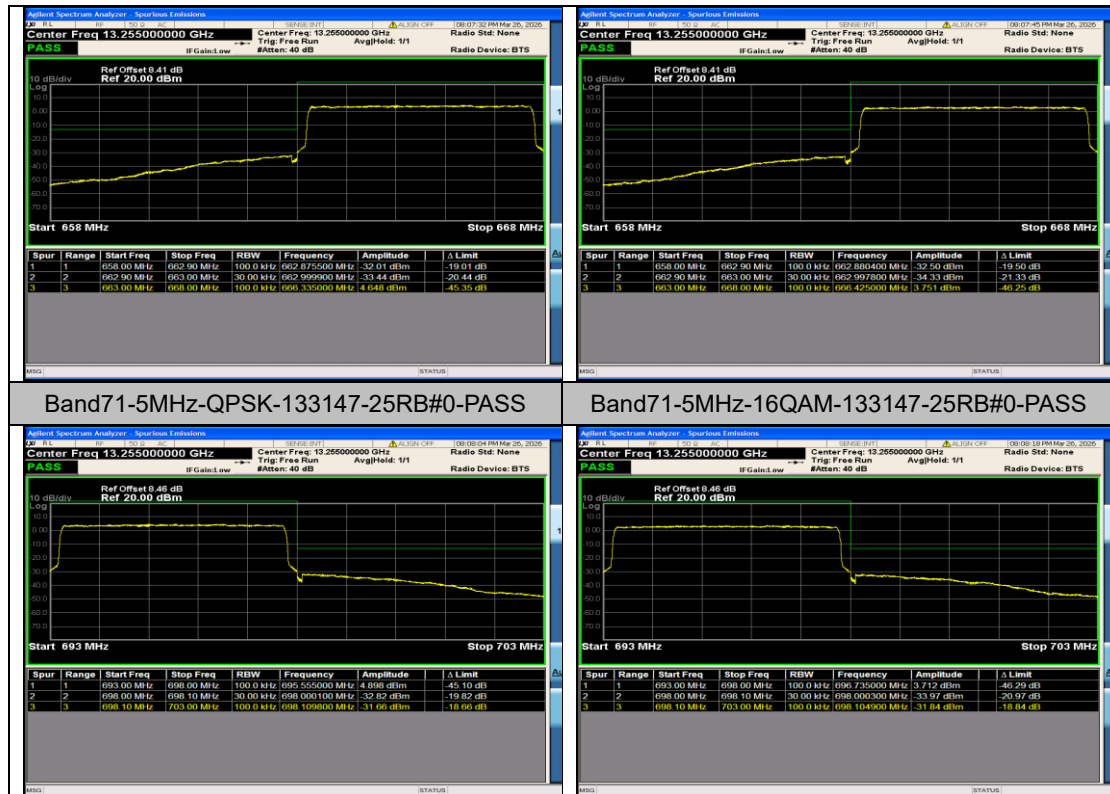


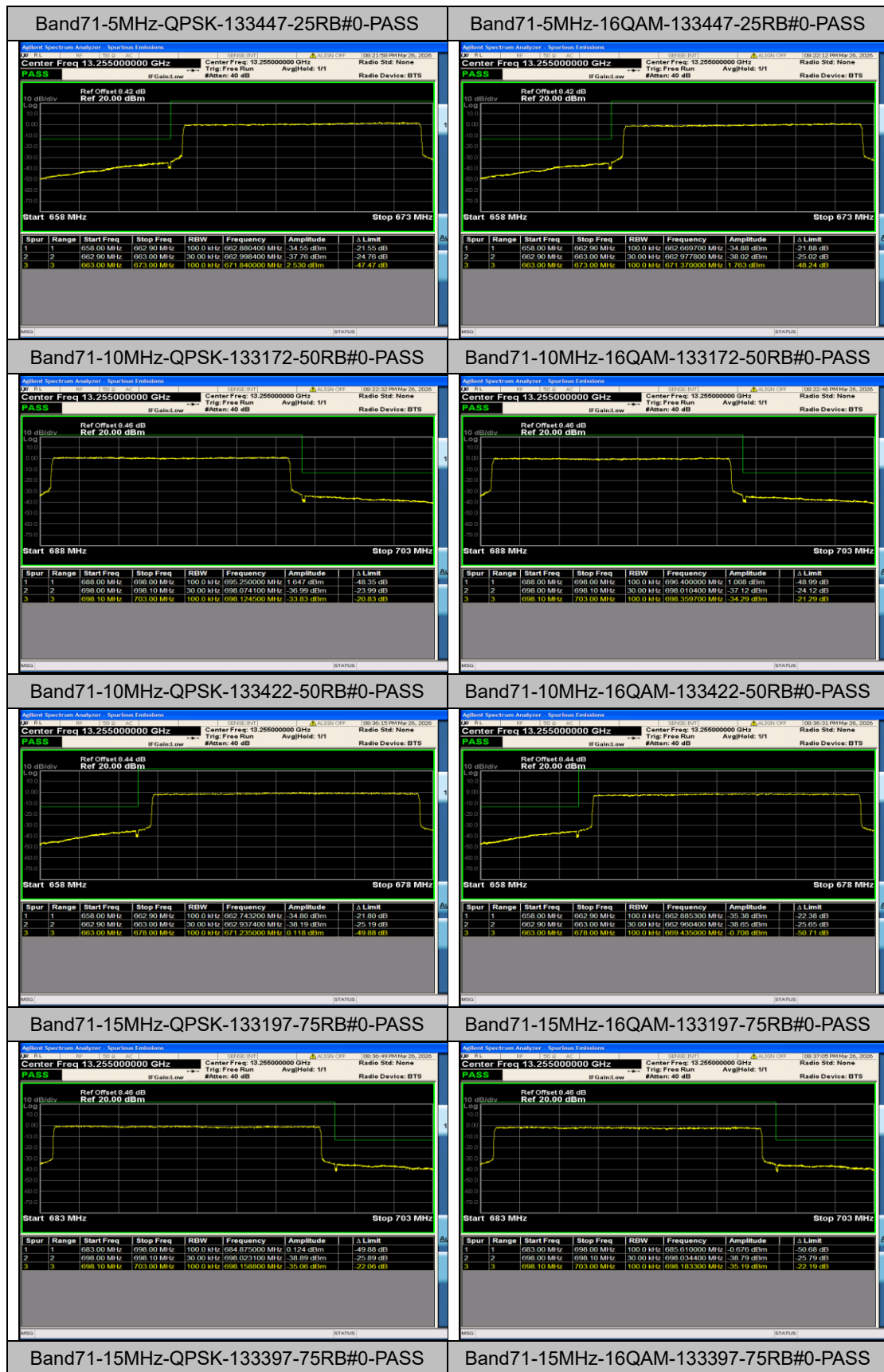
Appendix D: Band Edge

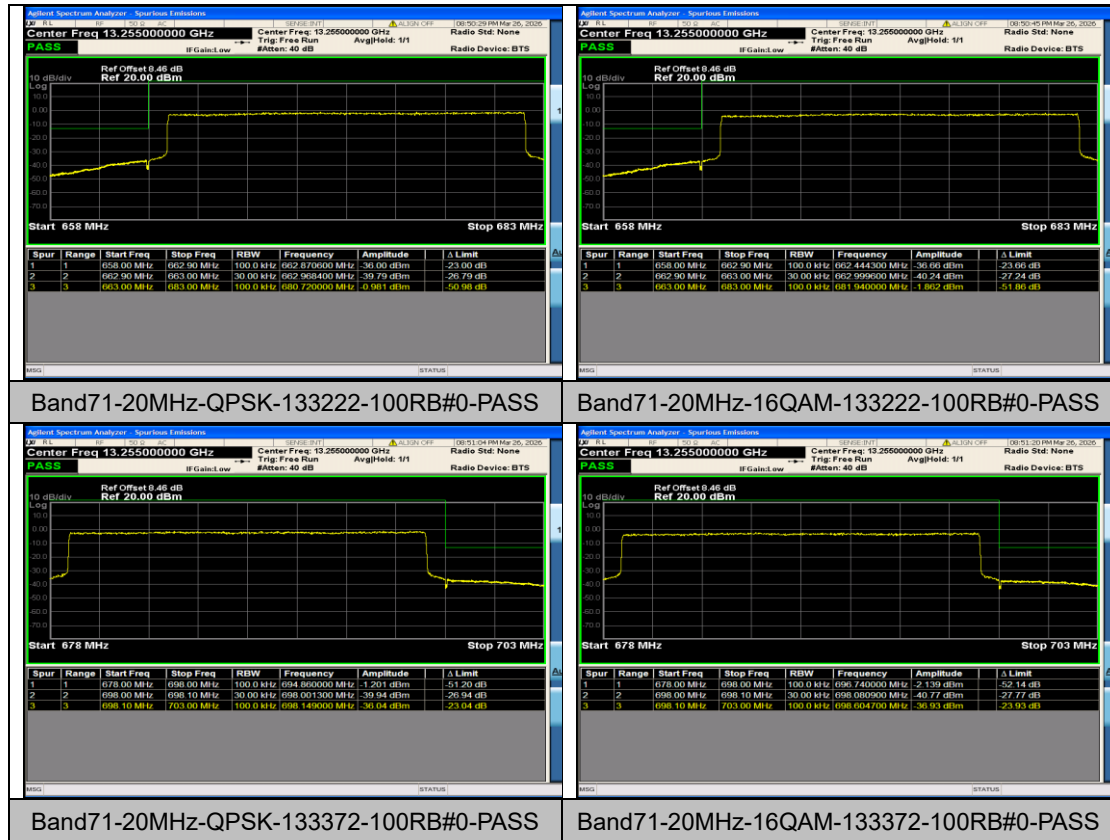
Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band71	5MHz	QPSK	133147	25RB#0	-32.01	PASS
Band71	5MHz	16QAM	133147	25RB#0	-32.50	PASS
Band71	5MHz	QPSK	133447	25RB#0	-31.66	PASS
Band71	5MHz	16QAM	133447	25RB#0	-31.84	PASS
Band71	10MHz	QPSK	133172	50RB#0	-34.55	PASS
Band71	10MHz	16QAM	133172	50RB#0	-34.88	PASS
Band71	10MHz	QPSK	133422	50RB#0	-33.83	PASS
Band71	10MHz	16QAM	133422	50RB#0	-34.29	PASS
Band71	15MHz	QPSK	133197	75RB#0	-34.80	PASS
Band71	15MHz	16QAM	133197	75RB#0	-35.38	PASS
Band71	15MHz	QPSK	133397	75RB#0	-35.06	PASS
Band71	15MHz	16QAM	133397	75RB#0	-35.19	PASS
Band71	20MHz	QPSK	133222	100RB#0	-36.00	PASS
Band71	20MHz	16QAM	133222	100RB#0	-36.66	PASS
Band71	20MHz	QPSK	133372	100RB#0	-36.04	PASS
Band71	20MHz	16QAM	133372	100RB#0	-36.93	PASS

Test Graphs







Appendix E: Conducted Spurious Emission

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Frequency Range	Result (dBm)	Verdict
Band71	5MHz	QPSK	133147	25RB#0	0.009~0.15	-58.96	PASS
Band71	5MHz	QPSK	133147	25RB#0	0.15~30	-52.15	PASS
Band71	5MHz	QPSK	133147	25RB#0	30~1000	-49.09	PASS
Band71	5MHz	QPSK	133147	25RB#0	1000~3000	-48.09	PASS
Band71	5MHz	QPSK	133147	25RB#0	3000~10000	-44.14	PASS
Band71	5MHz	16QAM	133147	25RB#0	0.009~0.15	-60.51	PASS
Band71	5MHz	16QAM	133147	25RB#0	0.15~30	-52.38	PASS
Band71	5MHz	16QAM	133147	25RB#0	30~1000	-47.36	PASS
Band71	5MHz	16QAM	133147	25RB#0	1000~3000	-48.15	PASS
Band71	5MHz	16QAM	133147	25RB#0	3000~10000	-44.24	PASS
Band71	5MHz	QPSK	133297	25RB#0	0.009~0.15	-59.93	PASS
Band71	5MHz	QPSK	133297	25RB#0	0.15~30	-52.34	PASS
Band71	5MHz	QPSK	133297	25RB#0	30~1000	-58.13	PASS
Band71	5MHz	QPSK	133297	25RB#0	1000~3000	-48.09	PASS
Band71	5MHz	QPSK	133297	25RB#0	3000~10000	-43.96	PASS
Band71	5MHz	16QAM	133297	25RB#0	0.009~0.15	-60.59	PASS
Band71	5MHz	16QAM	133297	25RB#0	0.15~30	-50.91	PASS
Band71	5MHz	16QAM	133297	25RB#0	30~1000	-57.19	PASS
Band71	5MHz	16QAM	133297	25RB#0	1000~3000	-47.85	PASS
Band71	5MHz	16QAM	133297	25RB#0	3000~10000	-44.01	PASS
Band71	5MHz	QPSK	133447	25RB#0	0.009~0.15	-59.69	PASS
Band71	5MHz	QPSK	133447	25RB#0	0.15~30	-52.83	PASS
Band71	5MHz	QPSK	133447	25RB#0	30~1000	-40.82	PASS
Band71	5MHz	QPSK	133447	25RB#0	1000~3000	-48.11	PASS
Band71	5MHz	QPSK	133447	25RB#0	3000~10000	-44.05	PASS
Band71	5MHz	16QAM	133447	25RB#0	0.009~0.15	-59.08	PASS
Band71	5MHz	16QAM	133447	25RB#0	0.15~30	-52.24	PASS
Band71	5MHz	16QAM	133447	25RB#0	30~1000	-42.56	PASS
Band71	5MHz	16QAM	133447	25RB#0	1000~3000	-48.18	PASS
Band71	5MHz	16QAM	133447	25RB#0	3000~10000	-43.74	PASS
Band71	10MHz	QPSK	133172	50RB#0	0.009~0.15	-59.67	PASS
Band71	10MHz	QPSK	133172	50RB#0	0.15~30	-52.76	PASS
Band71	10MHz	QPSK	133172	50RB#0	30~1000	-43.66	PASS
Band71	10MHz	QPSK	133172	50RB#0	1000~3000	-47.92	PASS
Band71	10MHz	QPSK	133172	50RB#0	3000~10000	-44.10	PASS
Band71	10MHz	16QAM	133172	50RB#0	0.009~0.15	-60.34	PASS

Band71	10MHz	16QAM	133172	50RB#0	0.15~30	-51.91	PASS
Band71	10MHz	16QAM	133172	50RB#0	30~1000	-43.01	PASS
Band71	10MHz	16QAM	133172	50RB#0	1000~3000	-47.93	PASS
Band71	10MHz	16QAM	133172	50RB#0	3000~10000	-43.40	PASS
Band71	10MHz	QPSK	133297	50RB#0	0.009~0.15	-59.68	PASS
Band71	10MHz	QPSK	133297	50RB#0	0.15~30	-52.55	PASS
Band71	10MHz	QPSK	133297	50RB#0	30~1000	-51.58	PASS
Band71	10MHz	QPSK	133297	50RB#0	1000~3000	-48.30	PASS
Band71	10MHz	QPSK	133297	50RB#0	3000~10000	-44.20	PASS
Band71	10MHz	16QAM	133297	50RB#0	0.009~0.15	-60.10	PASS
Band71	10MHz	16QAM	133297	50RB#0	0.15~30	-53.56	PASS
Band71	10MHz	16QAM	133297	50RB#0	30~1000	-53.03	PASS
Band71	10MHz	16QAM	133297	50RB#0	1000~3000	-48.14	PASS
Band71	10MHz	16QAM	133297	50RB#0	3000~10000	-44.17	PASS
Band71	10MHz	QPSK	133422	50RB#0	0.009~0.15	-61.01	PASS
Band71	10MHz	QPSK	133422	50RB#0	0.15~30	-51.46	PASS
Band71	10MHz	QPSK	133422	50RB#0	30~1000	-34.48	PASS
Band71	10MHz	QPSK	133422	50RB#0	1000~3000	-48.03	PASS
Band71	10MHz	QPSK	133422	50RB#0	3000~10000	-43.92	PASS
Band71	10MHz	16QAM	133422	50RB#0	0.009~0.15	-59.48	PASS
Band71	10MHz	16QAM	133422	50RB#0	0.15~30	-51.69	PASS
Band71	10MHz	16QAM	133422	50RB#0	30~1000	-33.26	PASS
Band71	10MHz	16QAM	133422	50RB#0	1000~3000	-48.08	PASS
Band71	10MHz	16QAM	133422	50RB#0	3000~10000	-43.91	PASS
Band71	15MHz	QPSK	133197	75RB#0	0.009~0.15	-60.40	PASS
Band71	15MHz	QPSK	133197	75RB#0	0.15~30	-52.21	PASS
Band71	15MHz	QPSK	133197	75RB#0	30~1000	-41.09	PASS
Band71	15MHz	QPSK	133197	75RB#0	1000~3000	-48.23	PASS
Band71	15MHz	QPSK	133197	75RB#0	3000~10000	-43.69	PASS
Band71	15MHz	16QAM	133197	75RB#0	0.009~0.15	-60.20	PASS
Band71	15MHz	16QAM	133197	75RB#0	0.15~30	-54.31	PASS
Band71	15MHz	16QAM	133197	75RB#0	30~1000	-39.68	PASS
Band71	15MHz	16QAM	133197	75RB#0	1000~3000	-48.12	PASS
Band71	15MHz	16QAM	133197	75RB#0	3000~10000	-44.21	PASS
Band71	15MHz	QPSK	133297	75RB#0	0.009~0.15	-60.41	PASS
Band71	15MHz	QPSK	133297	75RB#0	0.15~30	-52.04	PASS
Band71	15MHz	QPSK	133297	75RB#0	30~1000	-45.29	PASS
Band71	15MHz	QPSK	133297	75RB#0	1000~3000	-48.03	PASS
Band71	15MHz	QPSK	133297	75RB#0	3000~10000	-44.10	PASS
Band71	15MHz	16QAM	133297	75RB#0	0.009~0.15	-60.21	PASS
Band71	15MHz	16QAM	133297	75RB#0	0.15~30	-51.36	PASS
Band71	15MHz	16QAM	133297	75RB#0	30~1000	-48.86	PASS
Band71	15MHz	16QAM	133297	75RB#0	1000~3000	-48.11	PASS

Band71	15MHz	16QAM	133297	75RB#0	3000~10000	-44.09	PASS
Band71	15MHz	QPSK	133397	75RB#0	0.009~0.15	-60.69	PASS
Band71	15MHz	QPSK	133397	75RB#0	0.15~30	-53.15	PASS
Band71	15MHz	QPSK	133397	75RB#0	30~1000	-36.65	PASS
Band71	15MHz	QPSK	133397	75RB#0	1000~3000	-48.16	PASS
Band71	15MHz	QPSK	133397	75RB#0	3000~10000	-43.94	PASS
Band71	15MHz	16QAM	133397	75RB#0	0.009~0.15	-61.10	PASS
Band71	15MHz	16QAM	133397	75RB#0	0.15~30	-51.29	PASS
Band71	15MHz	16QAM	133397	75RB#0	30~1000	-39.86	PASS
Band71	15MHz	16QAM	133397	75RB#0	1000~3000	-48.08	PASS
Band71	15MHz	16QAM	133397	75RB#0	3000~10000	-44.18	PASS
Band71	20MHz	QPSK	133222	100RB#0	0.009~0.15	-59.23	PASS
Band71	20MHz	QPSK	133222	100RB#0	0.15~30	-53.85	PASS
Band71	20MHz	QPSK	133222	100RB#0	1000~3000	-47.98	PASS
Band71	20MHz	QPSK	133222	100RB#0	3000~10000	-44.17	PASS
Band71	20MHz	16QAM	133222	100RB#0	0.009~0.15	-59.55	PASS
Band71	20MHz	16QAM	133222	100RB#0	0.15~30	-51.49	PASS
Band71	20MHz	16QAM	133222	100RB#0	1000~3000	-48.18	PASS
Band71	20MHz	16QAM	133222	100RB#0	3000~10000	-43.98	PASS
Band71	20MHz	QPSK	133322	100RB#0	0.009~0.15	-59.90	PASS
Band71	20MHz	QPSK	133322	100RB#0	0.15~30	-53.98	PASS
Band71	20MHz	QPSK	133322	100RB#0	1000~3000	-48.25	PASS
Band71	20MHz	QPSK	133322	100RB#0	3000~10000	-44.38	PASS
Band71	20MHz	16QAM	133322	100RB#0	0.009~0.15	-59.49	PASS
Band71	20MHz	16QAM	133322	100RB#0	0.15~30	-51.55	PASS
Band71	20MHz	16QAM	133322	100RB#0	1000~3000	-48.01	PASS
Band71	20MHz	16QAM	133322	100RB#0	3000~10000	-43.62	PASS
Band71	20MHz	QPSK	133372	100RB#0	0.009~0.15	-59.99	PASS
Band71	20MHz	QPSK	133372	100RB#0	0.15~30	-51.53	PASS
Band71	20MHz	QPSK	133372	100RB#0	1000~3000	-48.27	PASS
Band71	20MHz	QPSK	133372	100RB#0	3000~10000	-44.01	PASS
Band71	20MHz	16QAM	133372	100RB#0	0.009~0.15	-60.82	PASS
Band71	20MHz	16QAM	133372	100RB#0	0.15~30	-53.10	PASS
Band71	20MHz	16QAM	133372	100RB#0	1000~3000	-48.13	PASS
Band71	20MHz	16QAM	133372	100RB#0	3000~10000	-43.67	PASS

Test Graphs

