

FCC Appendix RF Test Data for LTE Band 12

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

EUT : Smart Phone

Model Number : K21

FCC ID : R38YLCPK21

Report No. : CTA25091901807

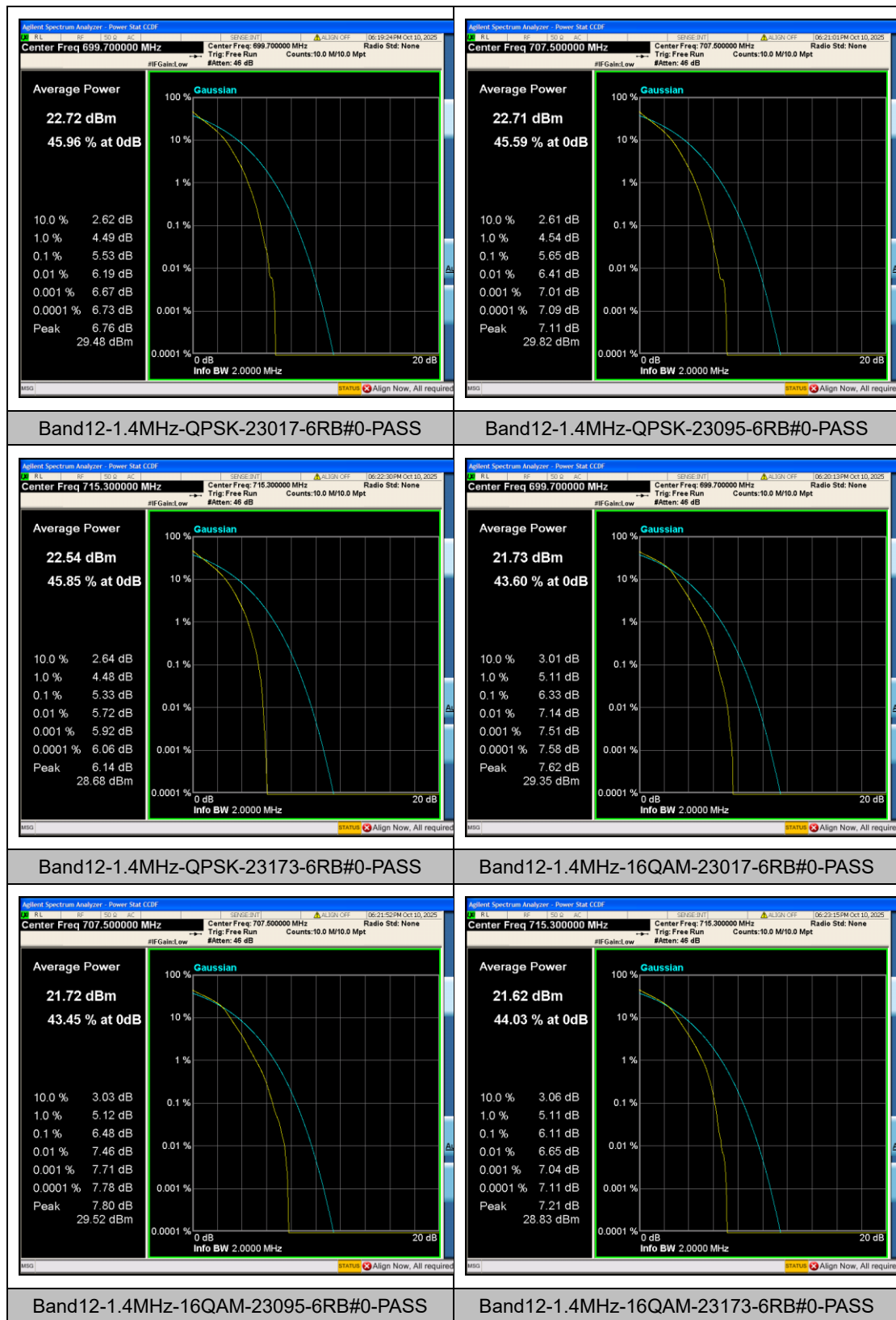
Reviewed By : Eric Wang

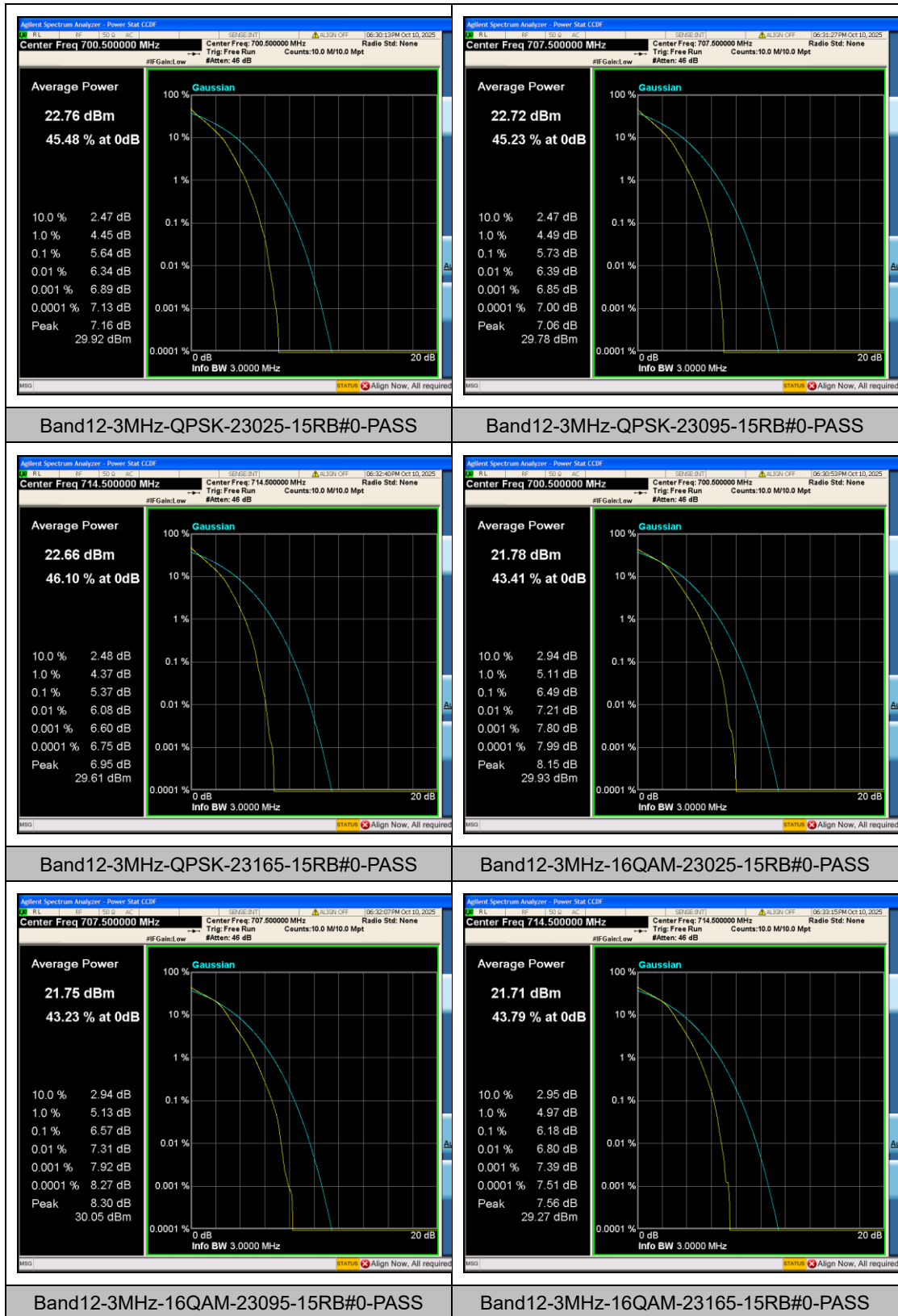
Appendix B: Peak-to-Average Ratio(CCDF)

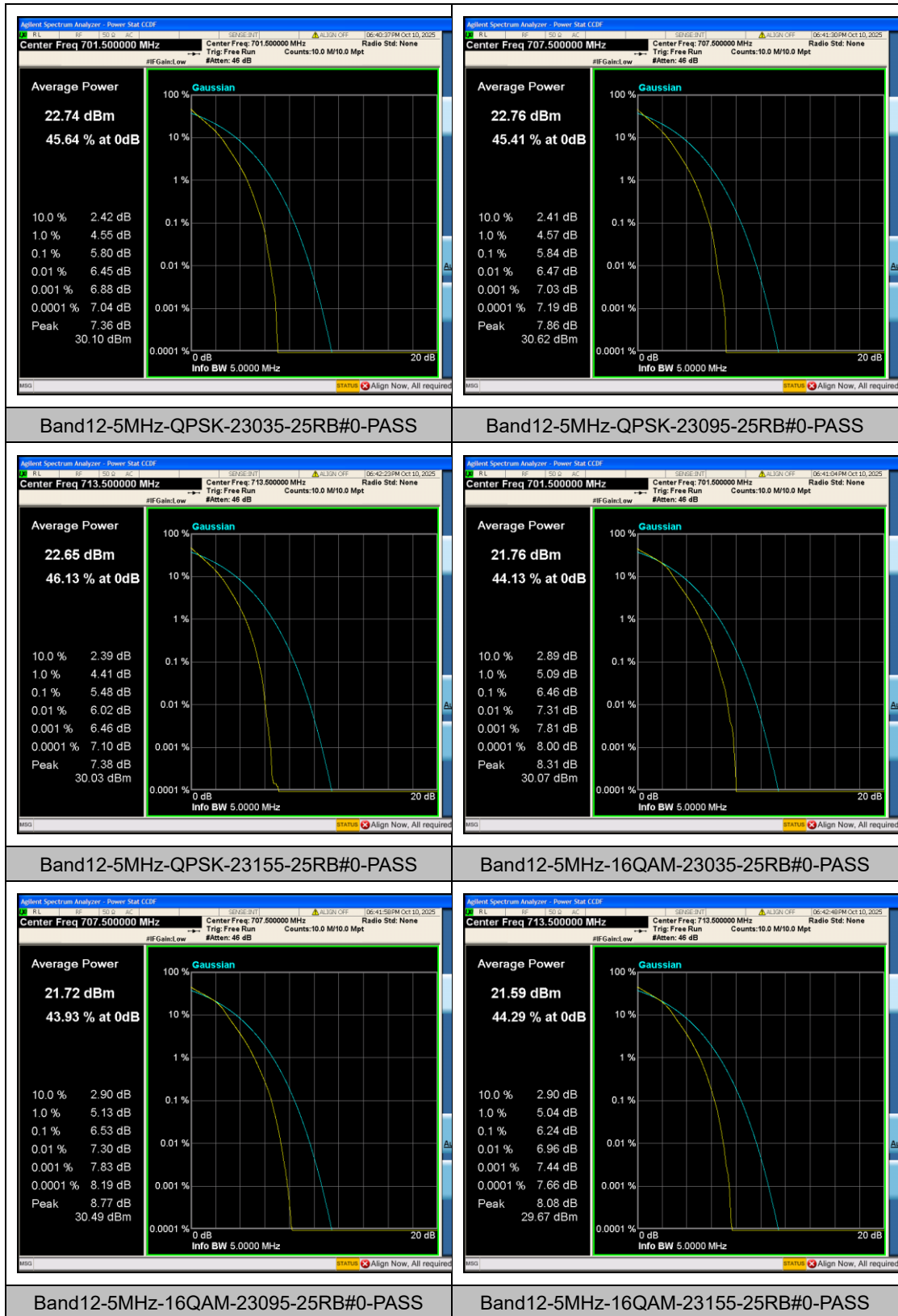
Test Result

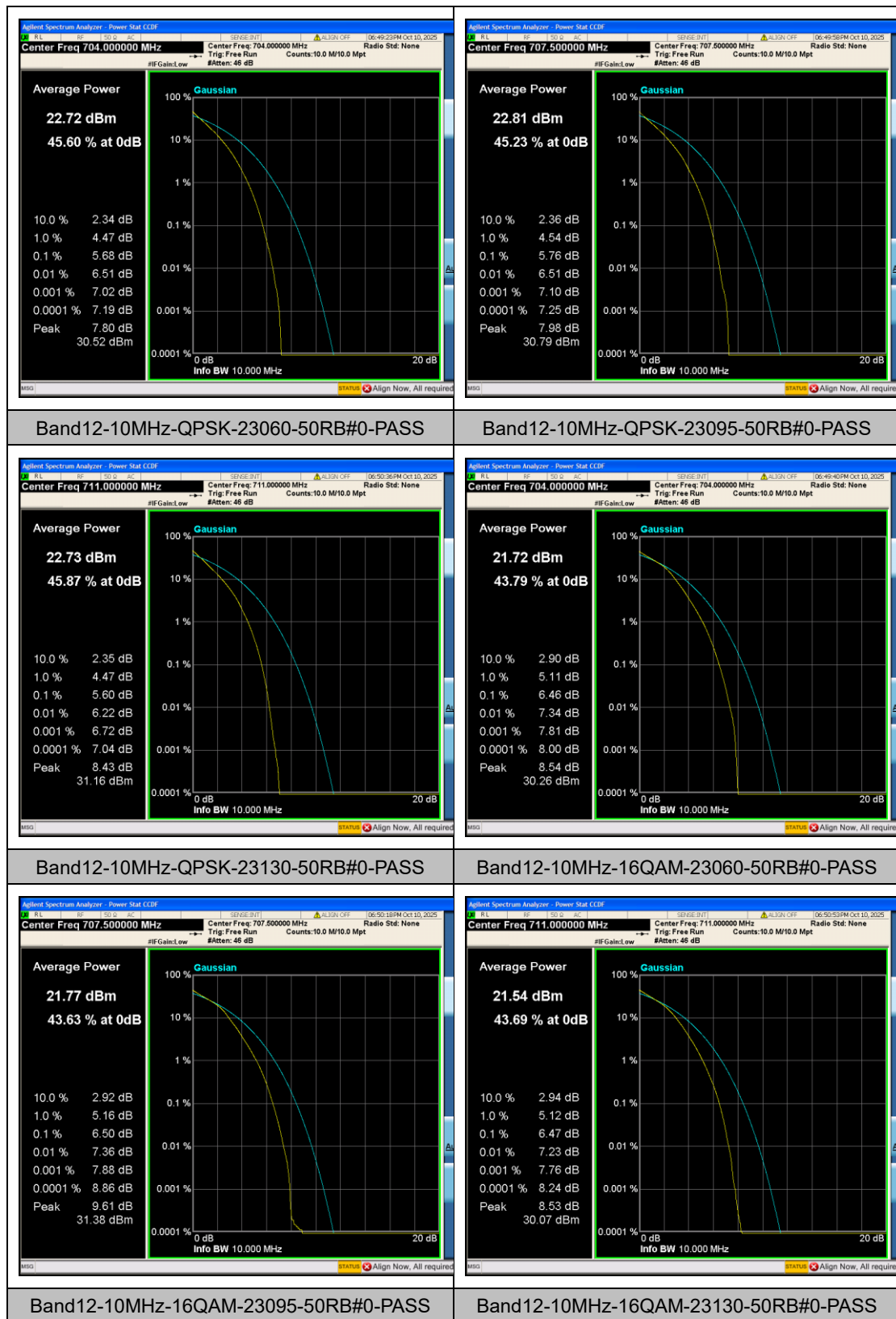
Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band12	1.4MHz	QPSK	23017	6RB#0	5.53	13	PASS
Band12	1.4MHz	QPSK	23095	6RB#0	5.65	13	PASS
Band12	1.4MHz	QPSK	23173	6RB#0	5.33	13	PASS
Band12	1.4MHz	16QAM	23017	6RB#0	6.33	13	PASS
Band12	1.4MHz	16QAM	23095	6RB#0	6.48	13	PASS
Band12	1.4MHz	16QAM	23173	6RB#0	6.11	13	PASS
Band12	3MHz	QPSK	23025	15RB#0	5.64	13	PASS
Band12	3MHz	QPSK	23095	15RB#0	5.73	13	PASS
Band12	3MHz	QPSK	23165	15RB#0	5.37	13	PASS
Band12	3MHz	16QAM	23025	15RB#0	6.49	13	PASS
Band12	3MHz	16QAM	23095	15RB#0	6.57	13	PASS
Band12	3MHz	16QAM	23165	15RB#0	6.18	13	PASS
Band12	5MHz	QPSK	23035	25RB#0	5.80	13	PASS
Band12	5MHz	QPSK	23095	25RB#0	5.84	13	PASS
Band12	5MHz	QPSK	23155	25RB#0	5.48	13	PASS
Band12	5MHz	16QAM	23035	25RB#0	6.46	13	PASS
Band12	5MHz	16QAM	23095	25RB#0	6.53	13	PASS
Band12	5MHz	16QAM	23155	25RB#0	6.24	13	PASS
Band12	10MHz	QPSK	23060	50RB#0	5.68	13	PASS
Band12	10MHz	QPSK	23095	50RB#0	5.76	13	PASS
Band12	10MHz	QPSK	23130	50RB#0	5.60	13	PASS
Band12	10MHz	16QAM	23060	50RB#0	6.46	13	PASS
Band12	10MHz	16QAM	23095	50RB#0	6.50	13	PASS
Band12	10MHz	16QAM	23130	50RB#0	6.47	13	PASS

Test Graphs







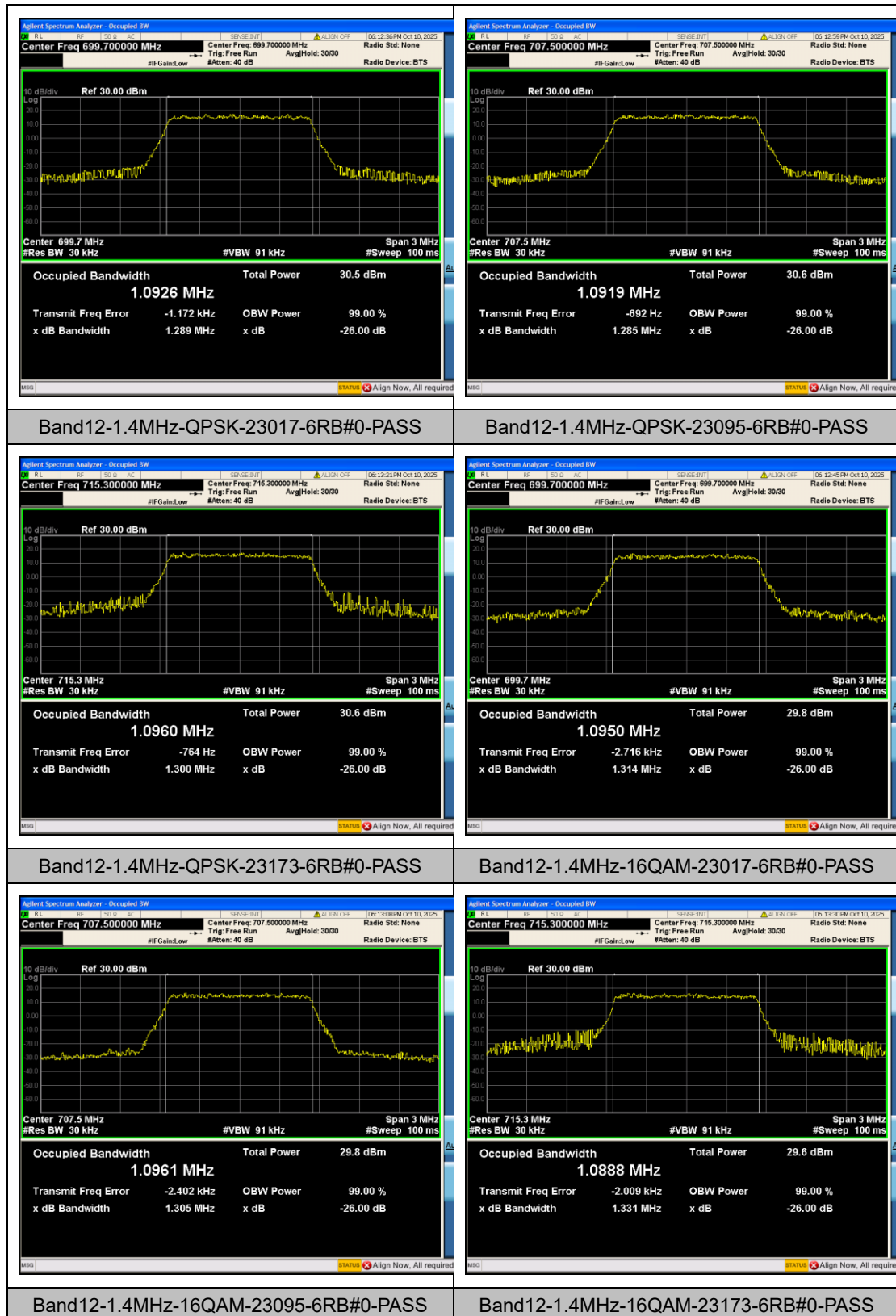


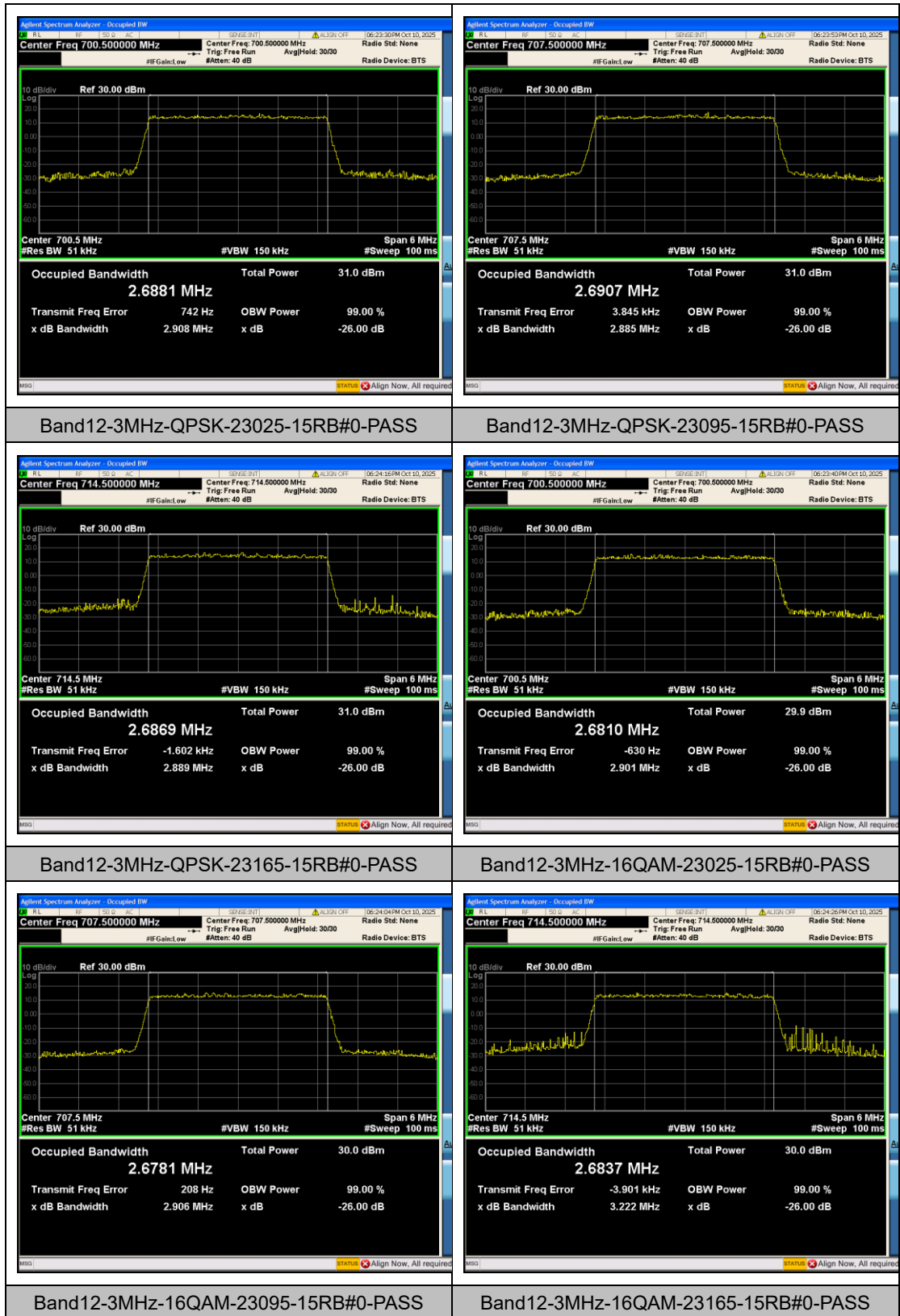
Appendix C: 26dB Bandwidth and Occupied Bandwidth

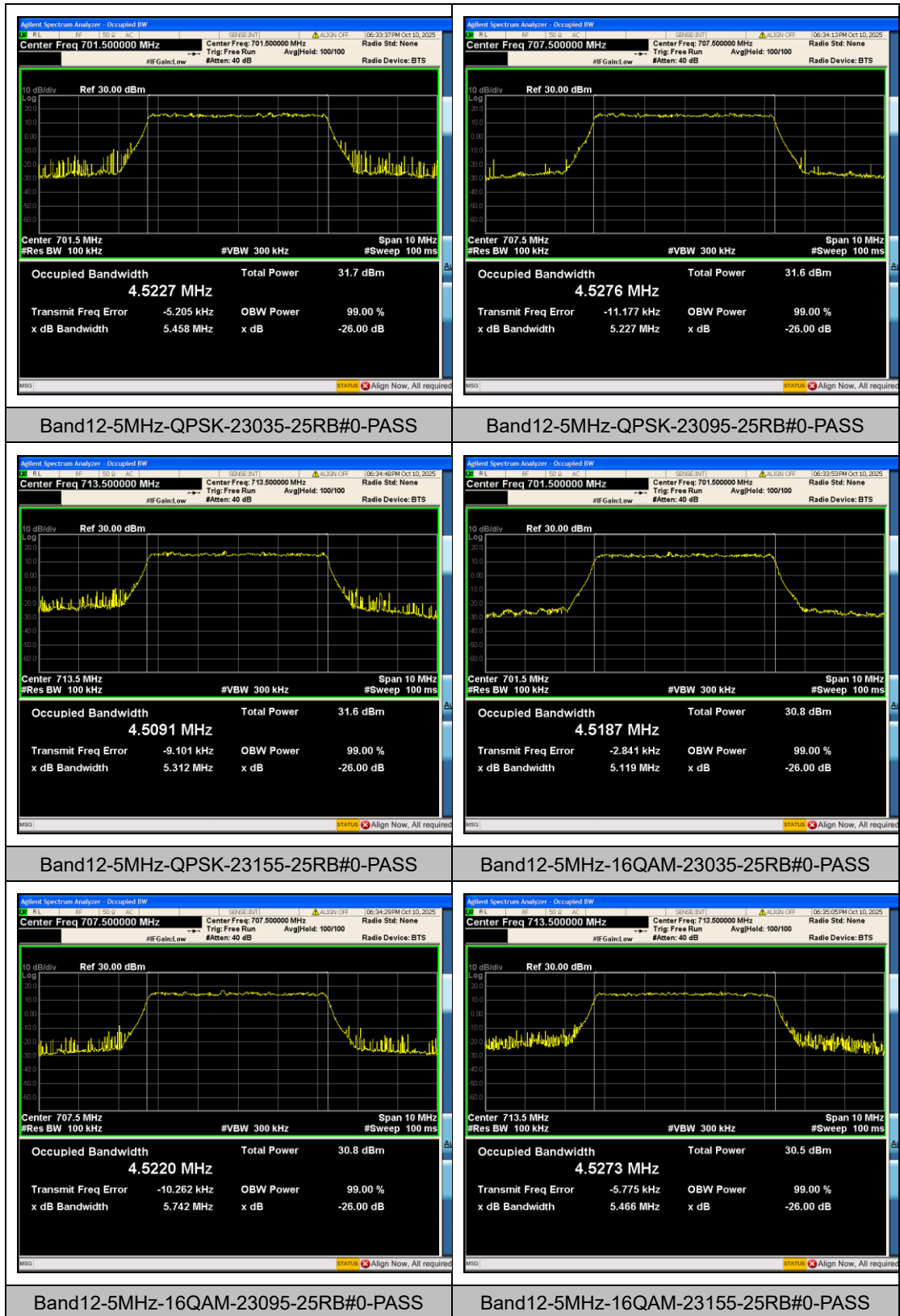
Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band12	1.4MHz	QPSK	23017	6RB#0	1.0926	1.289	PASS
Band12	1.4MHz	QPSK	23095	6RB#0	1.0919	1.285	PASS
Band12	1.4MHz	QPSK	23173	6RB#0	1.0960	1.300	PASS
Band12	1.4MHz	16QAM	23017	6RB#0	1.0950	1.314	PASS
Band12	1.4MHz	16QAM	23095	6RB#0	1.0961	1.305	PASS
Band12	1.4MHz	16QAM	23173	6RB#0	1.0888	1.331	PASS
Band12	3MHz	QPSK	23025	15RB#0	2.6881	2.908	PASS
Band12	3MHz	QPSK	23095	15RB#0	2.6907	2.885	PASS
Band12	3MHz	QPSK	23165	15RB#0	2.6869	2.889	PASS
Band12	3MHz	16QAM	23025	15RB#0	2.6810	2.901	PASS
Band12	3MHz	16QAM	23095	15RB#0	2.6781	2.906	PASS
Band12	3MHz	16QAM	23165	15RB#0	2.6837	3.222	PASS
Band12	5MHz	QPSK	23035	25RB#0	4.5227	5.458	PASS
Band12	5MHz	QPSK	23095	25RB#0	4.5276	5.227	PASS
Band12	5MHz	QPSK	23155	25RB#0	4.5091	5.312	PASS
Band12	5MHz	16QAM	23035	25RB#0	4.5187	5.119	PASS
Band12	5MHz	16QAM	23095	25RB#0	4.5220	5.742	PASS
Band12	5MHz	16QAM	23155	25RB#0	4.5273	5.466	PASS
Band12	10MHz	QPSK	23060	50RB#0	9.0025	10.17	PASS
Band12	10MHz	QPSK	23095	50RB#0	9.0120	10.17	PASS
Band12	10MHz	QPSK	23130	50RB#0	9.0121	10.10	PASS
Band12	10MHz	16QAM	23060	50RB#0	9.0103	11.65	PASS
Band12	10MHz	16QAM	23095	50RB#0	9.0029	10.38	PASS
Band12	10MHz	16QAM	23130	50RB#0	8.9938	10.76	PASS

Test Graphs









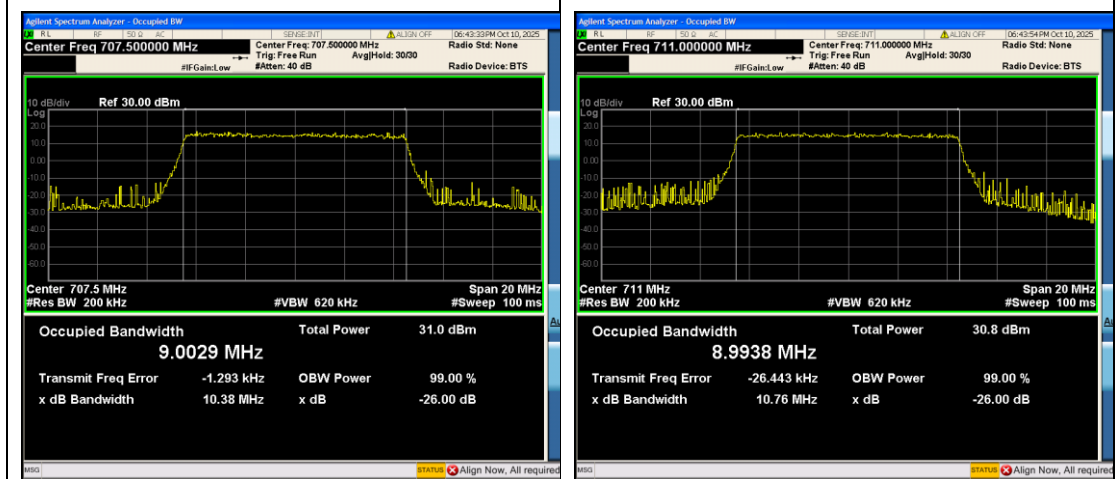
Band12-10MHz-QPSK-23060-50RB#0-PASS

Band12-10MHz-QPSK-23095-50RB#0-PASS



Band12-10MHz-QPSK-23130-50RB#0-PASS

Band12-10MHz-16QAM-23060-50RB#0-PASS



Band12-10MHz-16QAM-23095-50RB#0-PASS

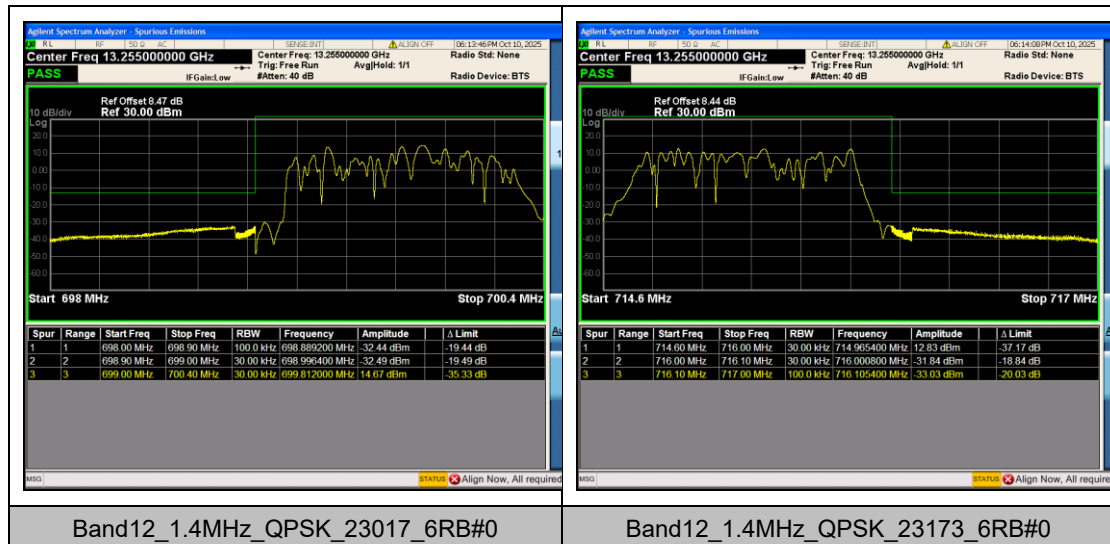
Band12-10MHz-16QAM-23130-50RB#0-PASS

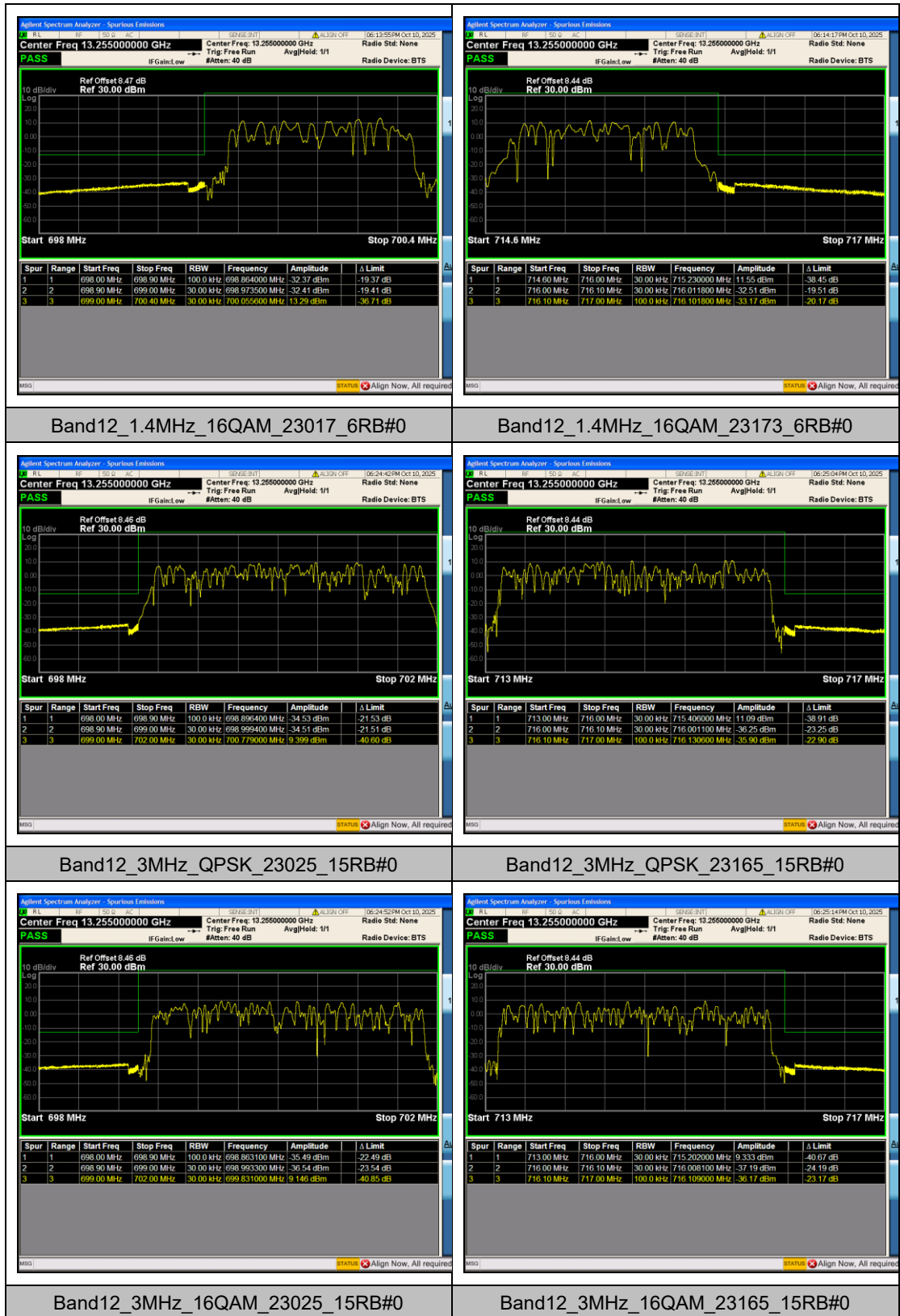
Appendix D: Band Edge

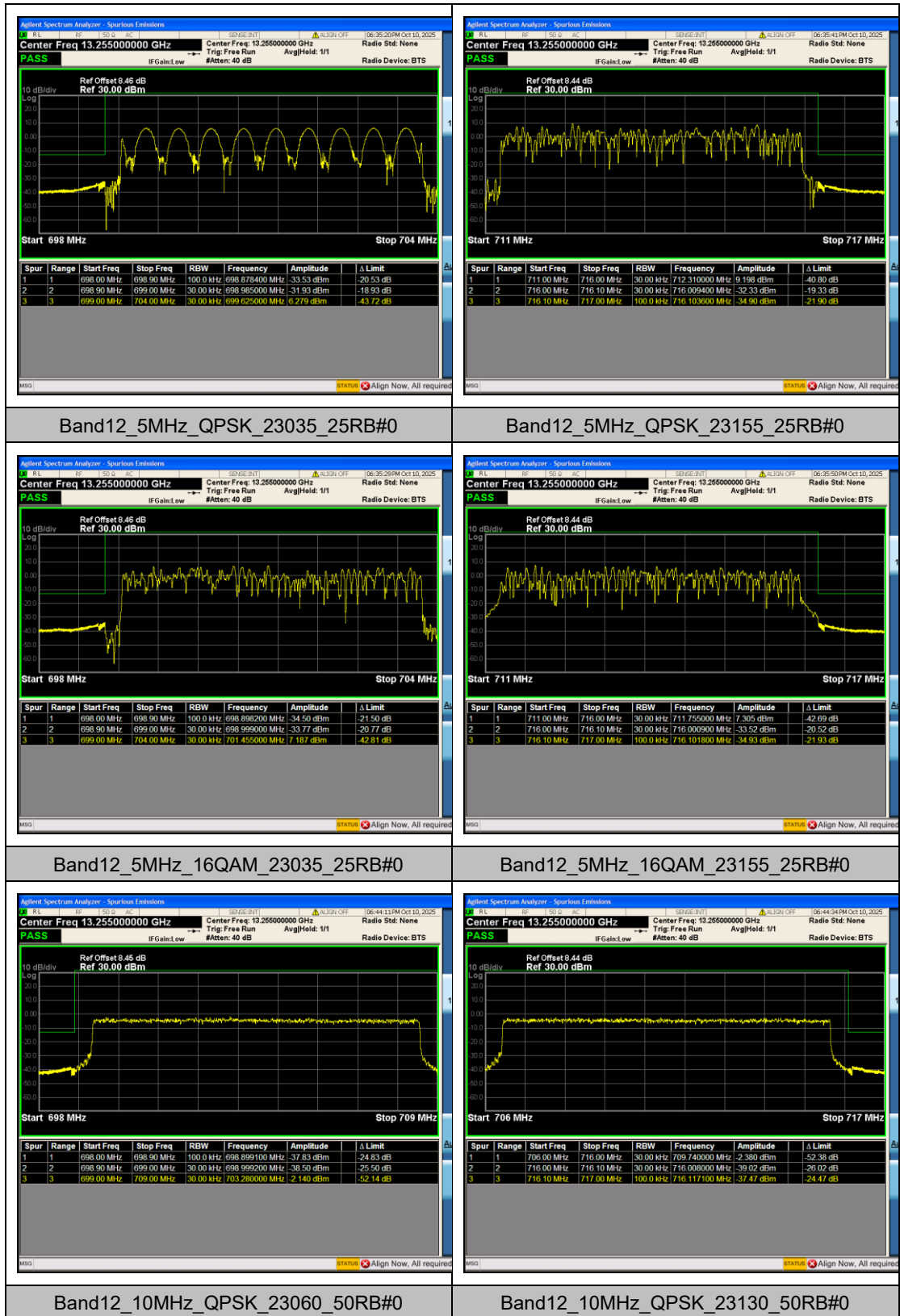
Test Result

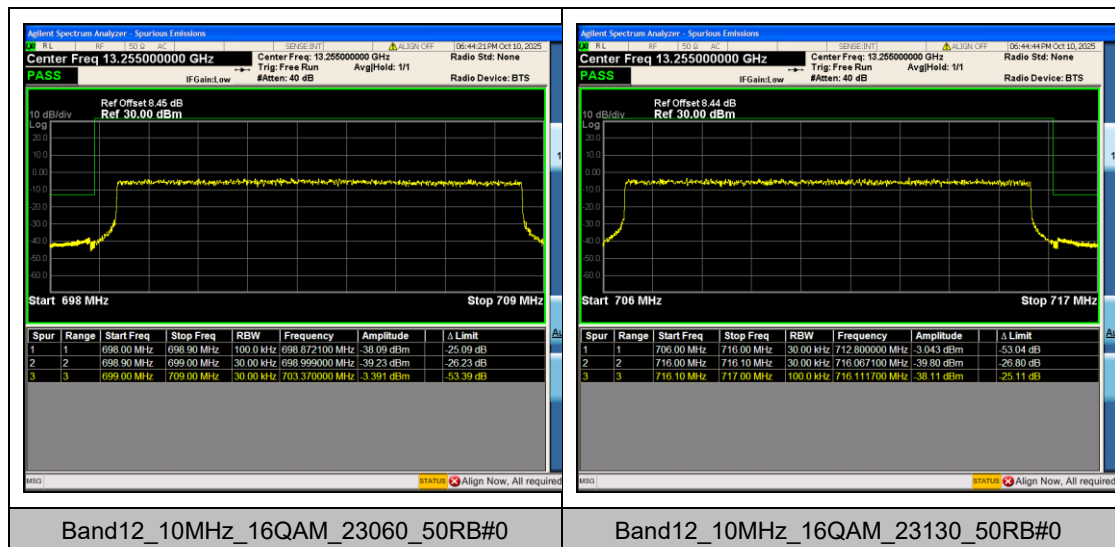
Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band12	1.4MHz	QPSK	23017	6RB#0	-32.44	PASS
Band12	1.4MHz	QPSK	23173	6RB#0	-31.84	PASS
Band12	1.4MHz	16QAM	23017	6RB#0	-32.37	PASS
Band12	1.4MHz	16QAM	23173	6RB#0	-32.51	PASS
Band12	3MHz	QPSK	23025	15RB#0	-34.51	PASS
Band12	3MHz	QPSK	23165	15RB#0	-35.90	PASS
Band12	3MHz	16QAM	23025	15RB#0	-35.49	PASS
Band12	3MHz	16QAM	23165	15RB#0	-36.17	PASS
Band12	5MHz	QPSK	23035	25RB#0	-31.93	PASS
Band12	5MHz	QPSK	23155	25RB#0	-32.33	PASS
Band12	5MHz	16QAM	23035	25RB#0	-33.77	PASS
Band12	5MHz	16QAM	23155	25RB#0	-33.52	PASS
Band12	10MHz	QPSK	23060	50RB#0	-37.83	PASS
Band12	10MHz	QPSK	23130	50RB#0	-37.47	PASS
Band12	10MHz	16QAM	23060	50RB#0	-38.09	PASS
Band12	10MHz	16QAM	23130	50RB#0	-38.11	PASS

Test Graphs









Appendix E: Conducted Spurious Emission

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Frequency Range	Result (dBm)	Verdict
Band12	1.4MHz	QPSK	23017	6RB#0	0.009~0.15	-43.00	PASS
Band12	1.4MHz	QPSK	23017	6RB#0	0.15~30	-54.68	PASS
Band12	1.4MHz	QPSK	23017	6RB#0	30~1000	-47.43	PASS
Band12	1.4MHz	QPSK	23017	6RB#0	1000~3000	-46.22	PASS
Band12	1.4MHz	QPSK	23017	6RB#0	3000~10000	-43.73	PASS
Band12	1.4MHz	QPSK	23095	6RB#0	0.009~0.15	-42.32	PASS
Band12	1.4MHz	QPSK	23095	6RB#0	0.15~30	-53.95	PASS
Band12	1.4MHz	QPSK	23095	6RB#0	30~1000	-47.43	PASS
Band12	1.4MHz	QPSK	23095	6RB#0	1000~3000	-46.39	PASS
Band12	1.4MHz	QPSK	23095	6RB#0	3000~10000	-43.59	PASS
Band12	1.4MHz	QPSK	23173	6RB#0	0.009~0.15	-42.76	PASS
Band12	1.4MHz	QPSK	23173	6RB#0	0.15~30	-54.38	PASS
Band12	1.4MHz	QPSK	23173	6RB#0	30~1000	-38.92	PASS
Band12	1.4MHz	QPSK	23173	6RB#0	1000~3000	-46.18	PASS
Band12	1.4MHz	QPSK	23173	6RB#0	3000~10000	-43.86	PASS
Band12	1.4MHz	16QAM	23017	6RB#0	0.009~0.15	-41.75	PASS
Band12	1.4MHz	16QAM	23017	6RB#0	0.15~30	-53.39	PASS
Band12	1.4MHz	16QAM	23017	6RB#0	30~1000	-49.87	PASS
Band12	1.4MHz	16QAM	23017	6RB#0	1000~3000	-46.69	PASS
Band12	1.4MHz	16QAM	23017	6RB#0	3000~10000	-43.80	PASS
Band12	1.4MHz	16QAM	23095	6RB#0	0.009~0.15	-40.63	PASS
Band12	1.4MHz	16QAM	23095	6RB#0	0.15~30	-51.34	PASS
Band12	1.4MHz	16QAM	23095	6RB#0	30~1000	-49.00	PASS
Band12	1.4MHz	16QAM	23095	6RB#0	1000~3000	-46.33	PASS
Band12	1.4MHz	16QAM	23095	6RB#0	3000~10000	-43.85	PASS
Band12	1.4MHz	16QAM	23173	6RB#0	0.009~0.15	-42.84	PASS
Band12	1.4MHz	16QAM	23173	6RB#0	0.15~30	-52.06	PASS
Band12	1.4MHz	16QAM	23173	6RB#0	30~1000	-47.08	PASS
Band12	1.4MHz	16QAM	23173	6RB#0	1000~3000	-46.48	PASS
Band12	1.4MHz	16QAM	23173	6RB#0	3000~10000	-43.80	PASS
Band12	3MHz	QPSK	23025	15RB#0	0.009~0.15	-42.89	PASS
Band12	3MHz	QPSK	23025	15RB#0	0.15~30	-54.04	PASS
Band12	3MHz	QPSK	23025	15RB#0	30~1000	-48.31	PASS
Band12	3MHz	QPSK	23025	15RB#0	1000~3000	-46.66	PASS
Band12	3MHz	QPSK	23025	15RB#0	3000~10000	-43.65	PASS
Band12	3MHz	QPSK	23095	15RB#0	0.009~0.15	-42.22	PASS

Band12	3MHz	QPSK	23095	15RB#0	0.15~30	-51.19	PASS
Band12	3MHz	QPSK	23095	15RB#0	30~1000	-47.53	PASS
Band12	3MHz	QPSK	23095	15RB#0	1000~3000	-46.59	PASS
Band12	3MHz	QPSK	23095	15RB#0	3000~10000	-43.75	PASS
Band12	3MHz	QPSK	23165	15RB#0	0.009~0.15	-41.83	PASS
Band12	3MHz	QPSK	23165	15RB#0	0.15~30	-52.29	PASS
Band12	3MHz	QPSK	23165	15RB#0	30~1000	-47.41	PASS
Band12	3MHz	QPSK	23165	15RB#0	1000~3000	-46.46	PASS
Band12	3MHz	QPSK	23165	15RB#0	3000~10000	-43.89	PASS
Band12	3MHz	16QAM	23025	15RB#0	0.009~0.15	-42.40	PASS
Band12	3MHz	16QAM	23025	15RB#0	0.15~30	-53.51	PASS
Band12	3MHz	16QAM	23025	15RB#0	30~1000	-49.42	PASS
Band12	3MHz	16QAM	23025	15RB#0	1000~3000	-46.62	PASS
Band12	3MHz	16QAM	23025	15RB#0	3000~10000	-43.67	PASS
Band12	3MHz	16QAM	23095	15RB#0	0.009~0.15	-43.88	PASS
Band12	3MHz	16QAM	23095	15RB#0	0.15~30	-52.53	PASS
Band12	3MHz	16QAM	23095	15RB#0	30~1000	-49.95	PASS
Band12	3MHz	16QAM	23095	15RB#0	1000~3000	-46.26	PASS
Band12	3MHz	16QAM	23095	15RB#0	3000~10000	-43.86	PASS
Band12	3MHz	16QAM	23165	15RB#0	0.009~0.15	-38.62	PASS
Band12	3MHz	16QAM	23165	15RB#0	0.15~30	-51.81	PASS
Band12	3MHz	16QAM	23165	15RB#0	30~1000	-42.15	PASS
Band12	3MHz	16QAM	23165	15RB#0	1000~3000	-46.55	PASS
Band12	3MHz	16QAM	23165	15RB#0	3000~10000	-44.01	PASS
Band12	5MHz	QPSK	23035	25RB#0	0.009~0.15	-42.71	PASS
Band12	5MHz	QPSK	23035	25RB#0	0.15~30	-54.52	PASS
Band12	5MHz	QPSK	23035	25RB#0	30~1000	-51.55	PASS
Band12	5MHz	QPSK	23035	25RB#0	1000~3000	-46.67	PASS
Band12	5MHz	QPSK	23035	25RB#0	3000~10000	-43.20	PASS
Band12	5MHz	QPSK	23095	25RB#0	0.009~0.15	-42.27	PASS
Band12	5MHz	QPSK	23095	25RB#0	0.15~30	-54.58	PASS
Band12	5MHz	QPSK	23095	25RB#0	30~1000	-49.65	PASS
Band12	5MHz	QPSK	23095	25RB#0	1000~3000	-46.36	PASS
Band12	5MHz	QPSK	23095	25RB#0	3000~10000	-43.84	PASS
Band12	5MHz	QPSK	23155	25RB#0	0.009~0.15	-42.65	PASS
Band12	5MHz	QPSK	23155	25RB#0	0.15~30	-54.08	PASS
Band12	5MHz	QPSK	23155	25RB#0	30~1000	-49.88	PASS
Band12	5MHz	QPSK	23155	25RB#0	1000~3000	-46.05	PASS
Band12	5MHz	QPSK	23155	25RB#0	3000~10000	-43.91	PASS
Band12	5MHz	16QAM	23035	25RB#0	0.009~0.15	-39.65	PASS
Band12	5MHz	16QAM	23035	25RB#0	0.15~30	-56.69	PASS
Band12	5MHz	16QAM	23035	25RB#0	30~1000	-53.89	PASS
Band12	5MHz	16QAM	23035	25RB#0	1000~3000	-46.82	PASS

Band12	5MHz	16QAM	23035	25RB#0	3000~10000	-43.66	PASS
Band12	5MHz	16QAM	23095	25RB#0	0.009~0.15	-38.54	PASS
Band12	5MHz	16QAM	23095	25RB#0	0.15~30	-52.60	PASS
Band12	5MHz	16QAM	23095	25RB#0	30~1000	-46.97	PASS
Band12	5MHz	16QAM	23095	25RB#0	1000~3000	-46.73	PASS
Band12	5MHz	16QAM	23095	25RB#0	3000~10000	-43.95	PASS
Band12	5MHz	16QAM	23155	25RB#0	0.009~0.15	-41.76	PASS
Band12	5MHz	16QAM	23155	25RB#0	0.15~30	-52.13	PASS
Band12	5MHz	16QAM	23155	25RB#0	30~1000	-51.30	PASS
Band12	5MHz	16QAM	23155	25RB#0	1000~3000	-46.78	PASS
Band12	5MHz	16QAM	23155	25RB#0	3000~10000	-43.73	PASS
Band12	10MHz	QPSK	23060	50RB#0	0.009~0.15	-42.49	PASS
Band12	10MHz	QPSK	23060	50RB#0	0.15~30	-54.44	PASS
Band12	10MHz	QPSK	23060	50RB#0	30~1000	-60.61	PASS
Band12	10MHz	QPSK	23060	50RB#0	1000~3000	-46.92	PASS
Band12	10MHz	QPSK	23060	50RB#0	3000~10000	-43.86	PASS
Band12	10MHz	QPSK	23095	50RB#0	0.009~0.15	-41.17	PASS
Band12	10MHz	QPSK	23095	50RB#0	0.15~30	-53.84	PASS
Band12	10MHz	QPSK	23095	50RB#0	30~1000	-60.26	PASS
Band12	10MHz	QPSK	23095	50RB#0	1000~3000	-46.53	PASS
Band12	10MHz	QPSK	23095	50RB#0	3000~10000	-44.10	PASS
Band12	10MHz	QPSK	23130	50RB#0	0.009~0.15	-42.78	PASS
Band12	10MHz	QPSK	23130	50RB#0	0.15~30	-53.06	PASS
Band12	10MHz	QPSK	23130	50RB#0	30~1000	-60.54	PASS
Band12	10MHz	QPSK	23130	50RB#0	1000~3000	-46.93	PASS
Band12	10MHz	QPSK	23130	50RB#0	3000~10000	-43.59	PASS
Band12	10MHz	16QAM	23060	50RB#0	0.009~0.15	-44.02	PASS
Band12	10MHz	16QAM	23060	50RB#0	0.15~30	-54.66	PASS
Band12	10MHz	16QAM	23060	50RB#0	30~1000	-58.16	PASS
Band12	10MHz	16QAM	23060	50RB#0	1000~3000	-46.79	PASS
Band12	10MHz	16QAM	23060	50RB#0	3000~10000	-43.88	PASS
Band12	10MHz	16QAM	23095	50RB#0	0.009~0.15	-41.25	PASS
Band12	10MHz	16QAM	23095	50RB#0	0.15~30	-53.67	PASS
Band12	10MHz	16QAM	23095	50RB#0	30~1000	-60.35	PASS
Band12	10MHz	16QAM	23095	50RB#0	1000~3000	-47.04	PASS
Band12	10MHz	16QAM	23095	50RB#0	3000~10000	-43.14	PASS
Band12	10MHz	16QAM	23130	50RB#0	0.009~0.15	-39.08	PASS
Band12	10MHz	16QAM	23130	50RB#0	0.15~30	-55.15	PASS
Band12	10MHz	16QAM	23130	50RB#0	30~1000	-57.82	PASS
Band12	10MHz	16QAM	23130	50RB#0	1000~3000	-46.46	PASS
Band12	10MHz	16QAM	23130	50RB#0	3000~10000	-43.79	PASS

Test Graphs

