

FCC LTE Band Test Data

FCC ID : 2BMB5-RL553

Company: : GUBIA TECHNOLOGY LIMITED

EUT : 4G LTE Wireless Router

Model Number : RL553

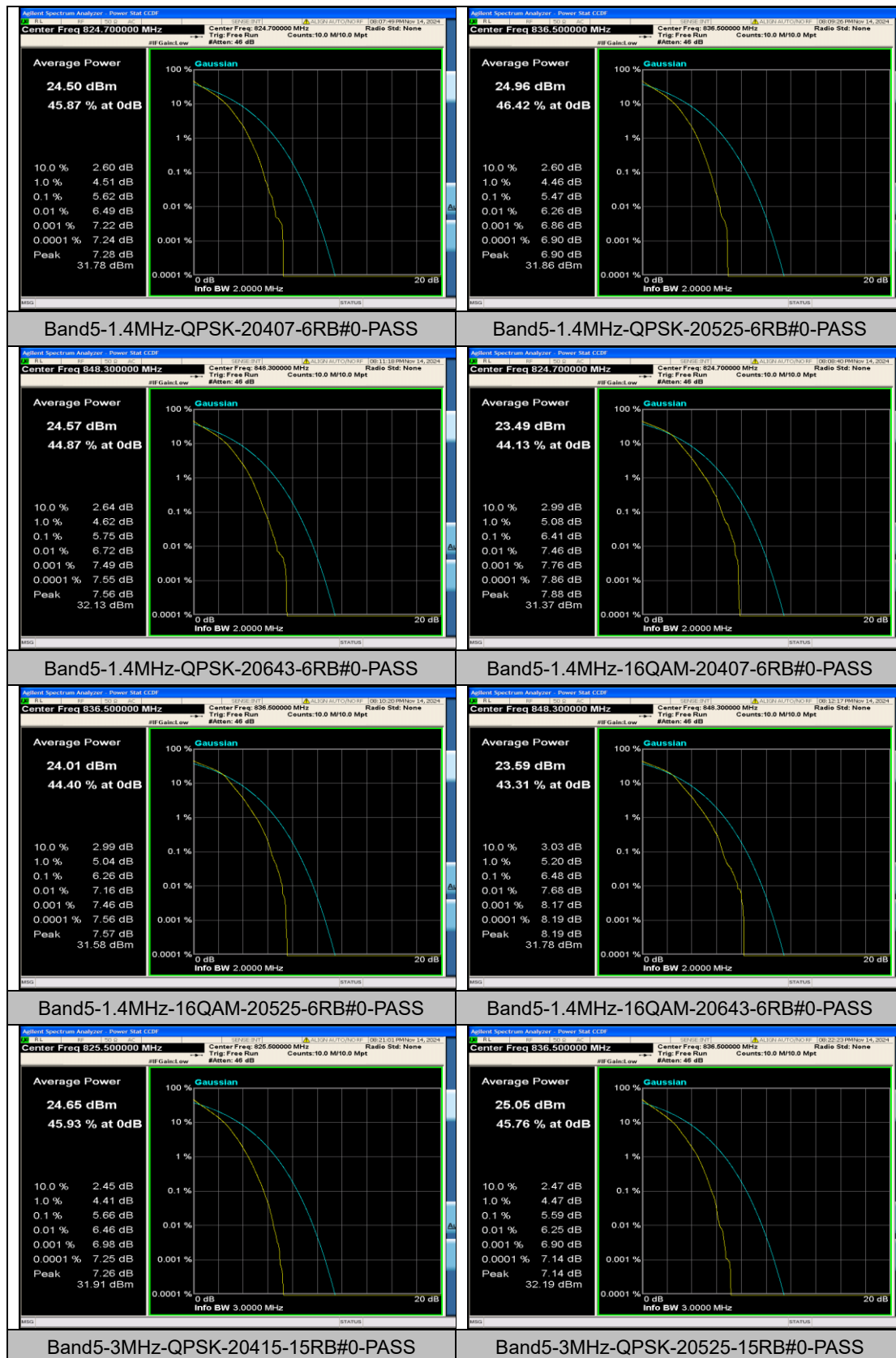
Reviewed By : Eric Wang

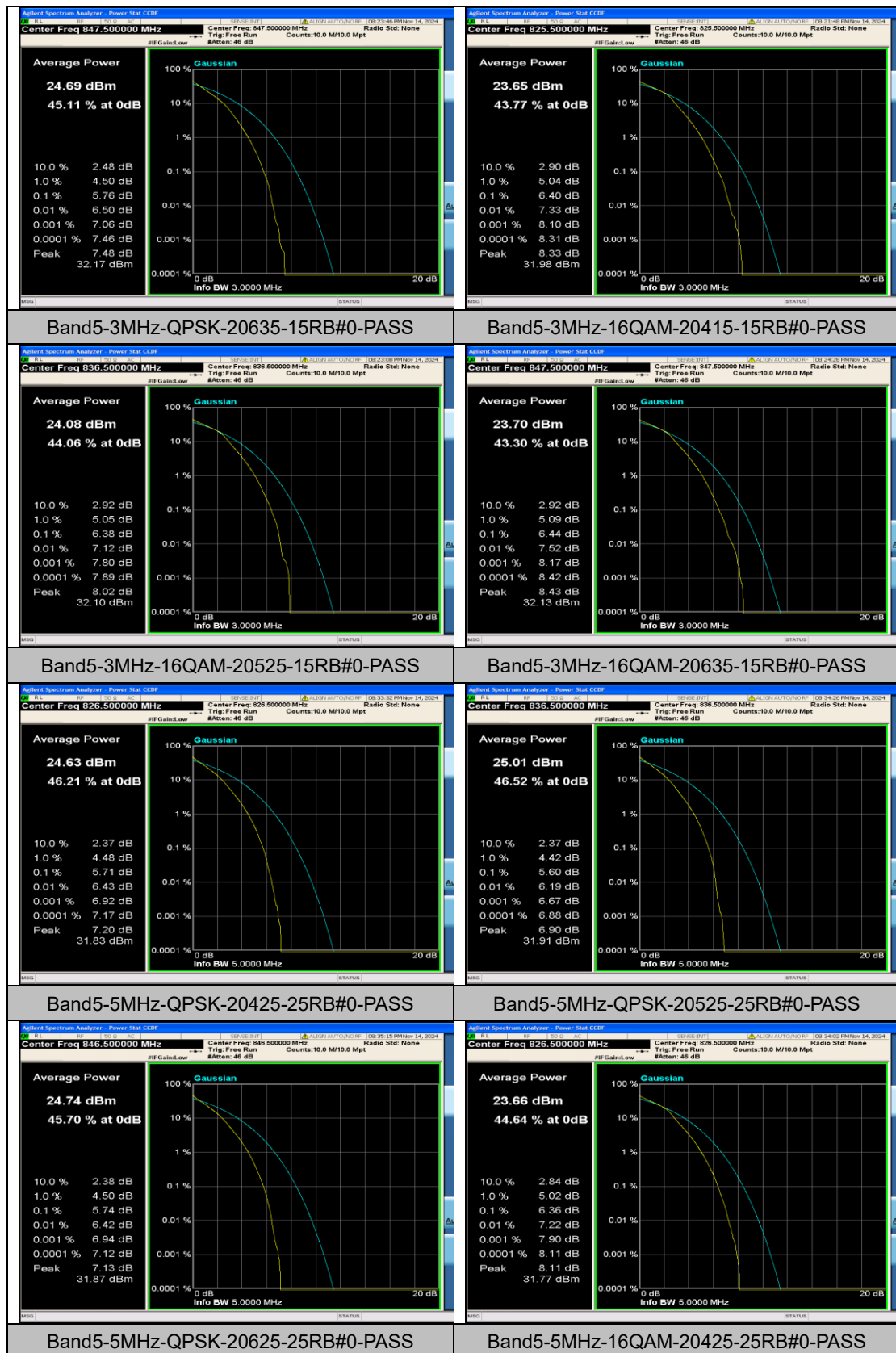
Appendix B: Peak-to-Average Ratio(CCDF)

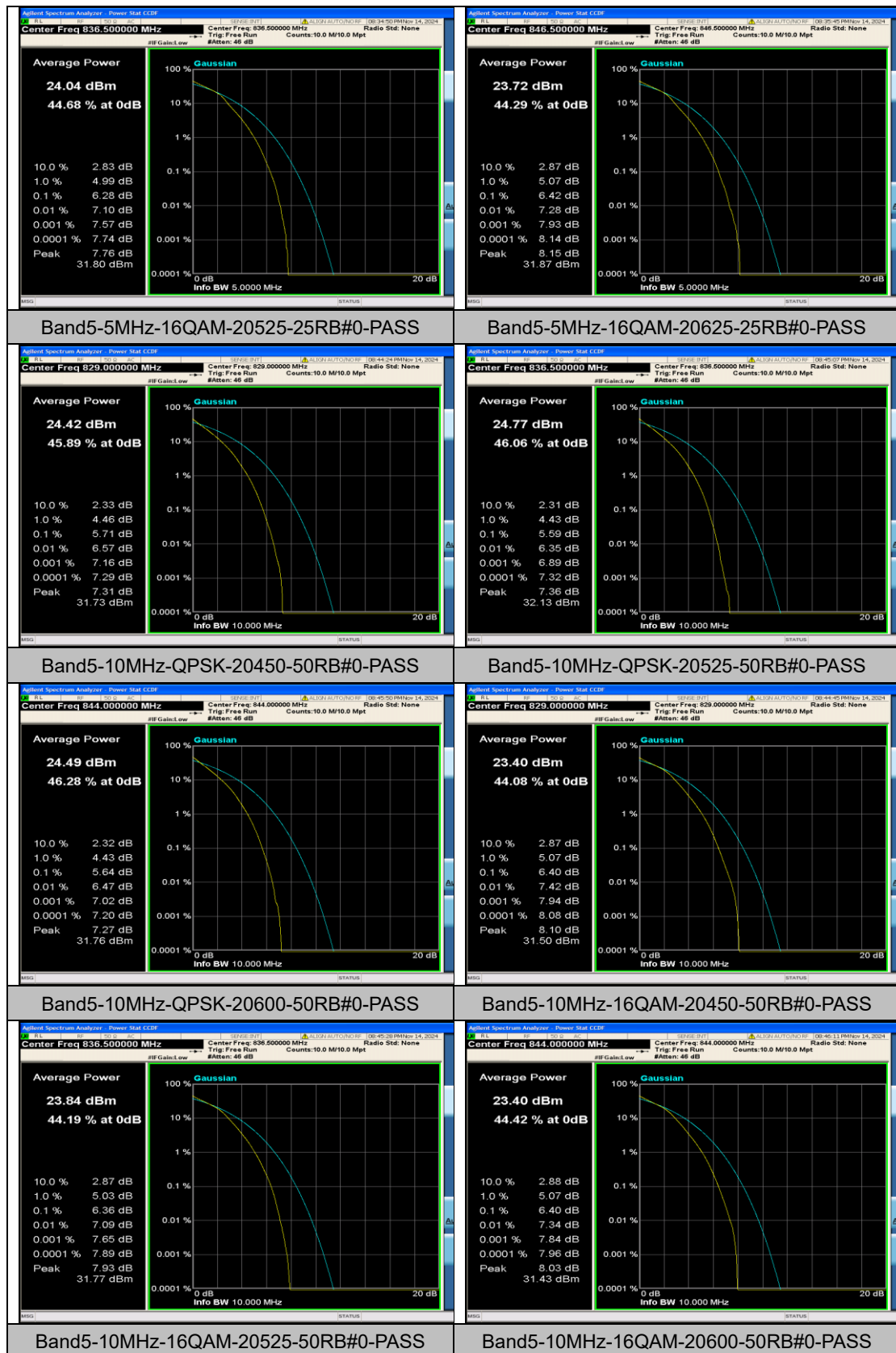
Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band5	1.4MHz	QPSK	20407	6RB#0	5.62	13	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	5.47	13	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	5.75	13	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	6.41	13	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	6.26	13	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	6.48	13	PASS
Band5	3MHz	QPSK	20415	15RB#0	5.66	13	PASS
Band5	3MHz	QPSK	20525	15RB#0	5.59	13	PASS
Band5	3MHz	QPSK	20635	15RB#0	5.76	13	PASS
Band5	3MHz	16QAM	20415	15RB#0	6.40	13	PASS
Band5	3MHz	16QAM	20525	15RB#0	6.38	13	PASS
Band5	3MHz	16QAM	20635	15RB#0	6.44	13	PASS
Band5	5MHz	QPSK	20425	25RB#0	5.71	13	PASS
Band5	5MHz	QPSK	20525	25RB#0	5.60	13	PASS
Band5	5MHz	QPSK	20625	25RB#0	5.74	13	PASS
Band5	5MHz	16QAM	20425	25RB#0	6.36	13	PASS
Band5	5MHz	16QAM	20525	25RB#0	6.28	13	PASS
Band5	5MHz	16QAM	20625	25RB#0	6.42	13	PASS
Band5	10MHz	QPSK	20450	50RB#0	5.71	13	PASS
Band5	10MHz	QPSK	20525	50RB#0	5.59	13	PASS
Band5	10MHz	QPSK	20600	50RB#0	5.64	13	PASS
Band5	10MHz	16QAM	20450	50RB#0	6.40	13	PASS
Band5	10MHz	16QAM	20525	50RB#0	6.36	13	PASS
Band5	10MHz	16QAM	20600	50RB#0	6.40	13	PASS

Test Graphs





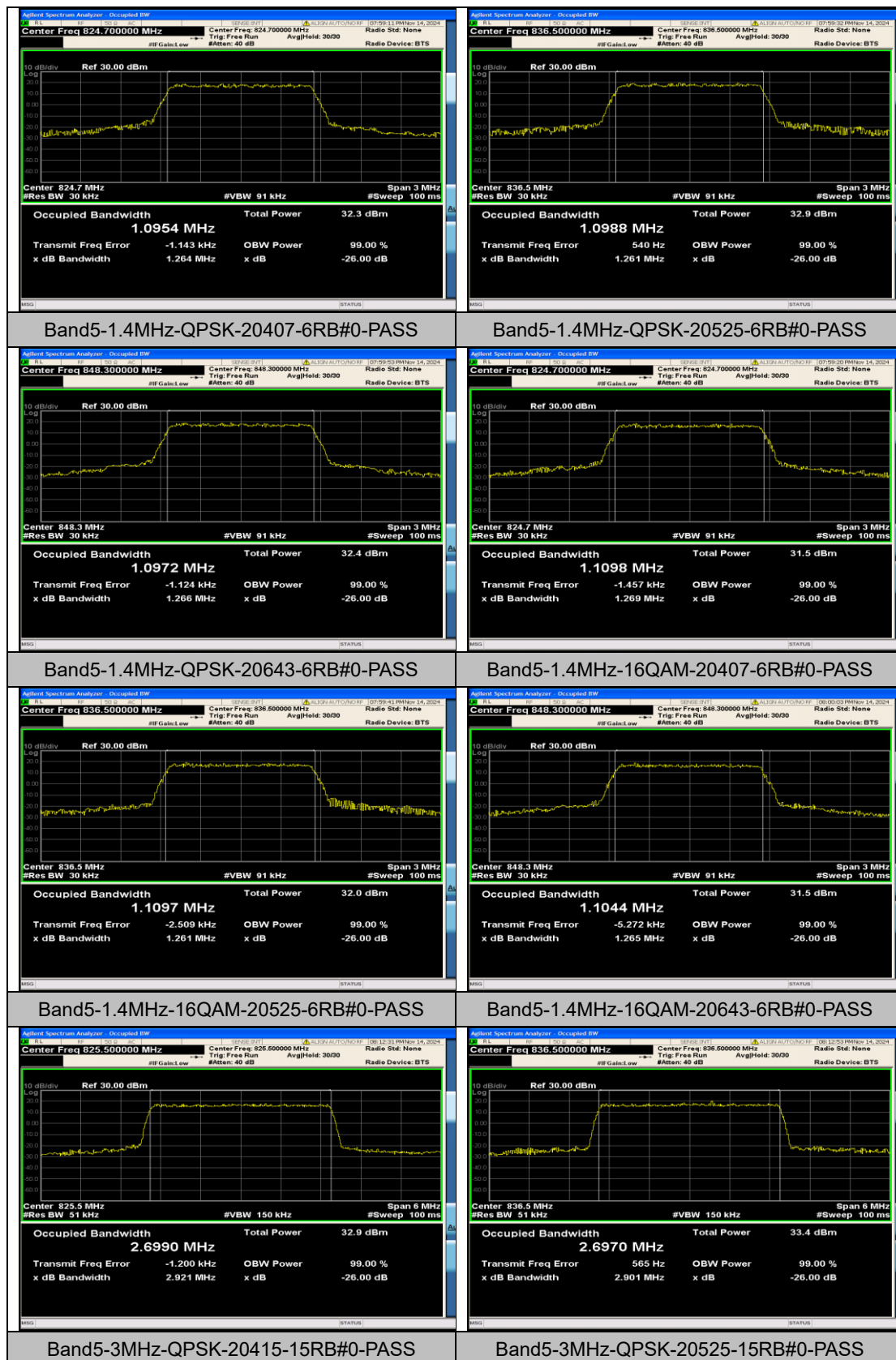


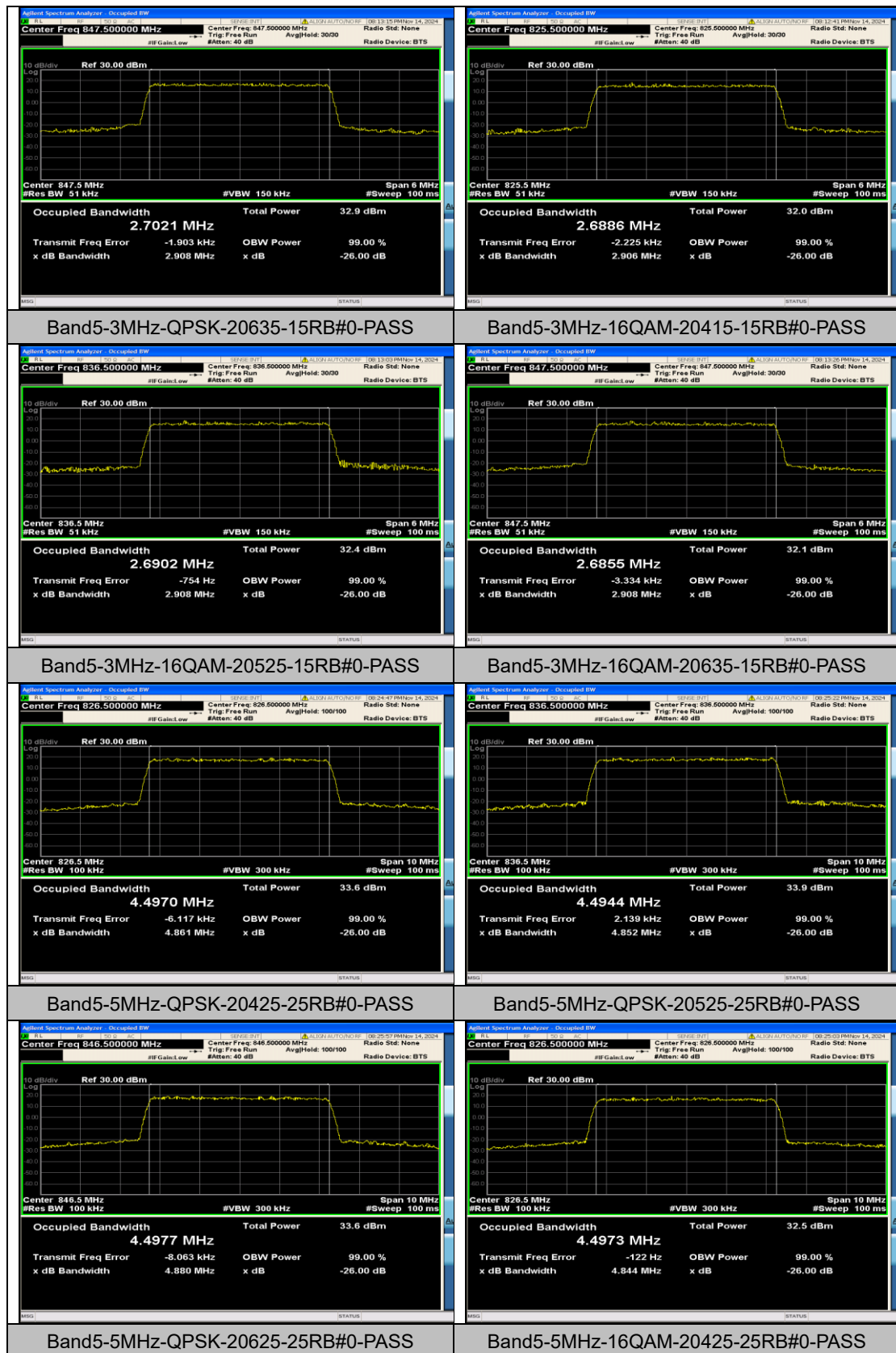
Appendix C: 26dB Bandwidth and Occupied Bandwidth

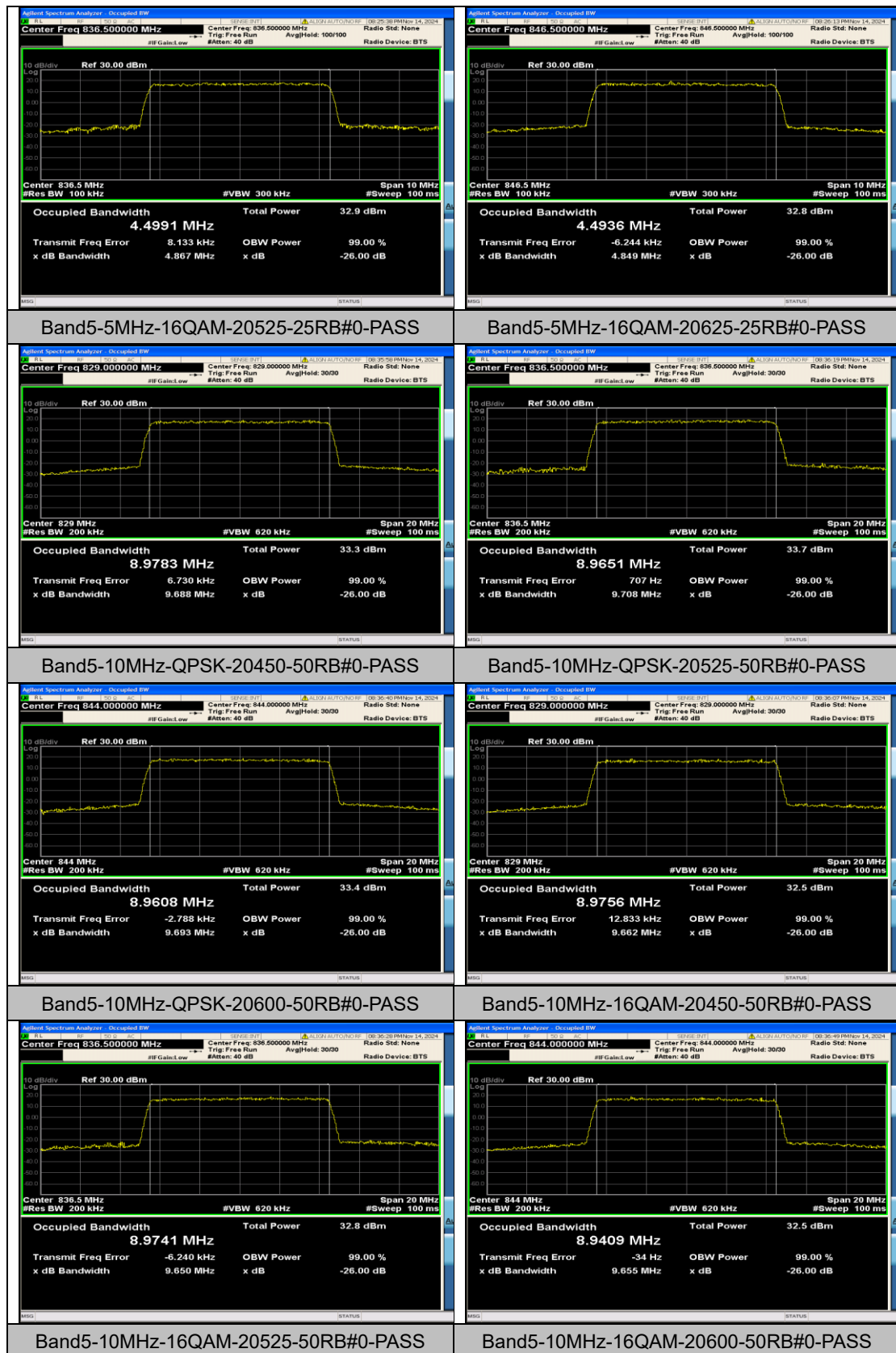
Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band5	1.4MHz	QPSK	20407	6RB#0	1.0954	1.264	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	1.0988	1.261	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	1.0972	1.266	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	1.1098	1.269	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	1.1097	1.261	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	1.1044	1.265	PASS
Band5	3MHz	QPSK	20415	15RB#0	2.6990	2.921	PASS
Band5	3MHz	QPSK	20525	15RB#0	2.6970	2.901	PASS
Band5	3MHz	QPSK	20635	15RB#0	2.7021	2.908	PASS
Band5	3MHz	16QAM	20415	15RB#0	2.6886	2.906	PASS
Band5	3MHz	16QAM	20525	15RB#0	2.6902	2.908	PASS
Band5	3MHz	16QAM	20635	15RB#0	2.6855	2.908	PASS
Band5	5MHz	QPSK	20425	25RB#0	4.4970	4.861	PASS
Band5	5MHz	QPSK	20525	25RB#0	4.4944	4.852	PASS
Band5	5MHz	QPSK	20625	25RB#0	4.4977	4.880	PASS
Band5	5MHz	16QAM	20425	25RB#0	4.4973	4.844	PASS
Band5	5MHz	16QAM	20525	25RB#0	4.4991	4.867	PASS
Band5	5MHz	16QAM	20625	25RB#0	4.4936	4.849	PASS
Band5	10MHz	QPSK	20450	50RB#0	8.9783	9.688	PASS
Band5	10MHz	QPSK	20525	50RB#0	8.9651	9.708	PASS
Band5	10MHz	QPSK	20600	50RB#0	8.9608	9.693	PASS
Band5	10MHz	16QAM	20450	50RB#0	8.9756	9.662	PASS
Band5	10MHz	16QAM	20525	50RB#0	8.9741	9.650	PASS
Band5	10MHz	16QAM	20600	50RB#0	8.9409	9.655	PASS

Test Graphs





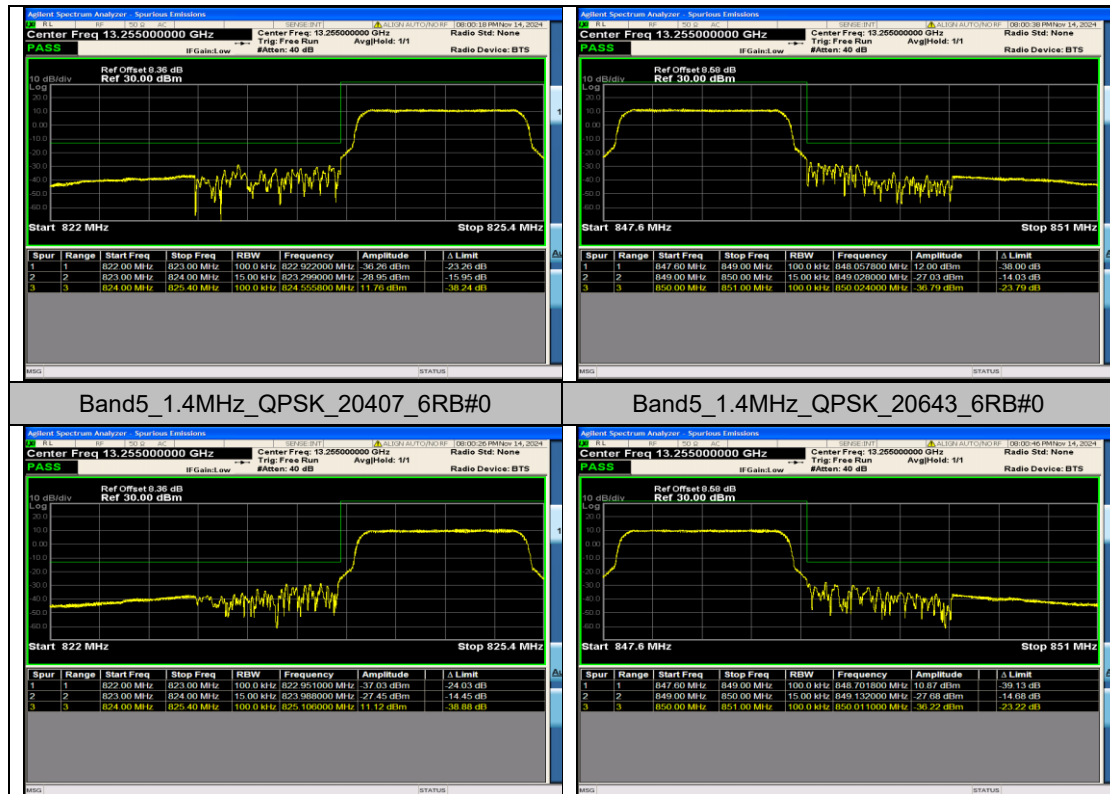


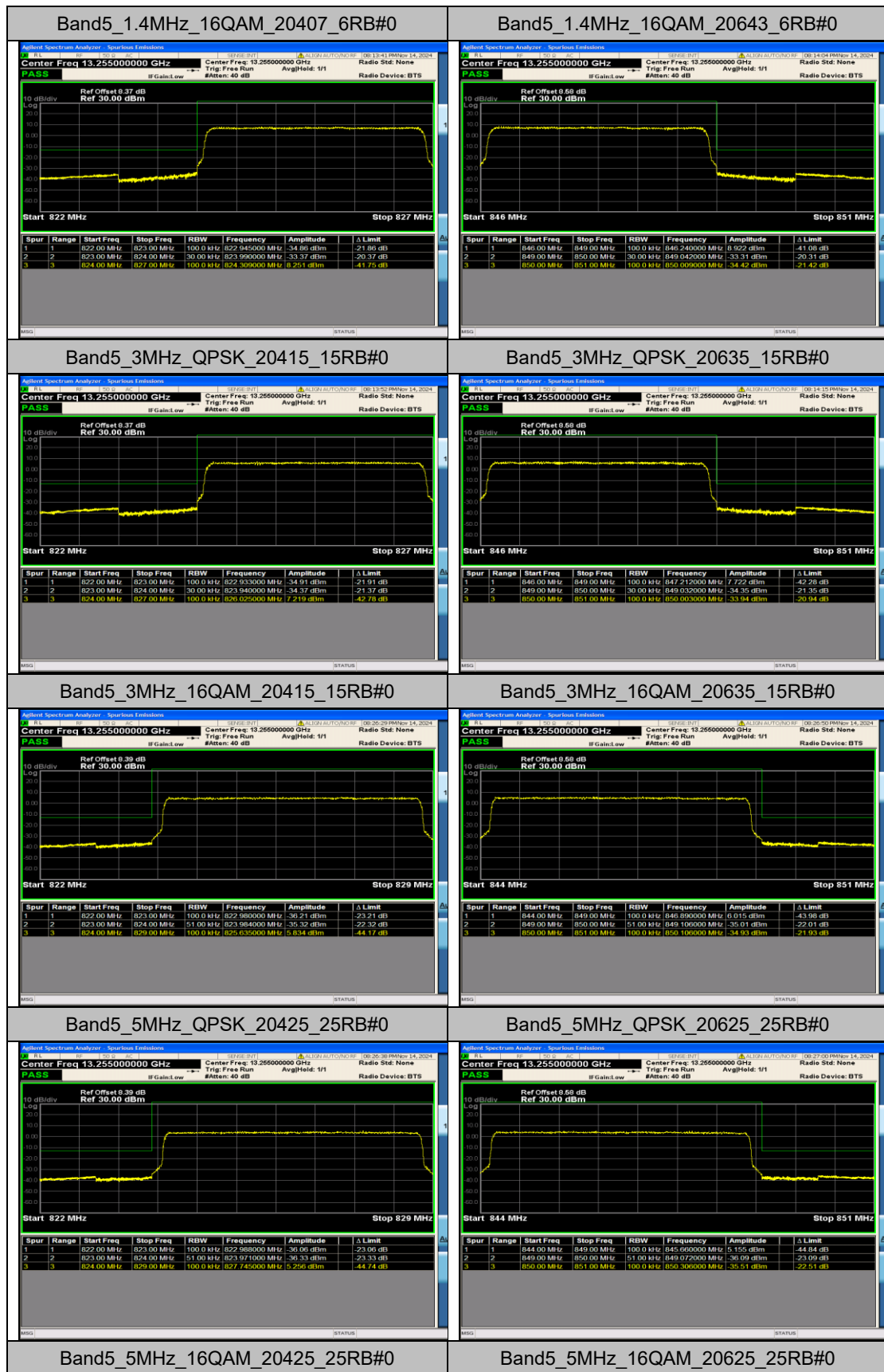
Appendix D: Band Edge

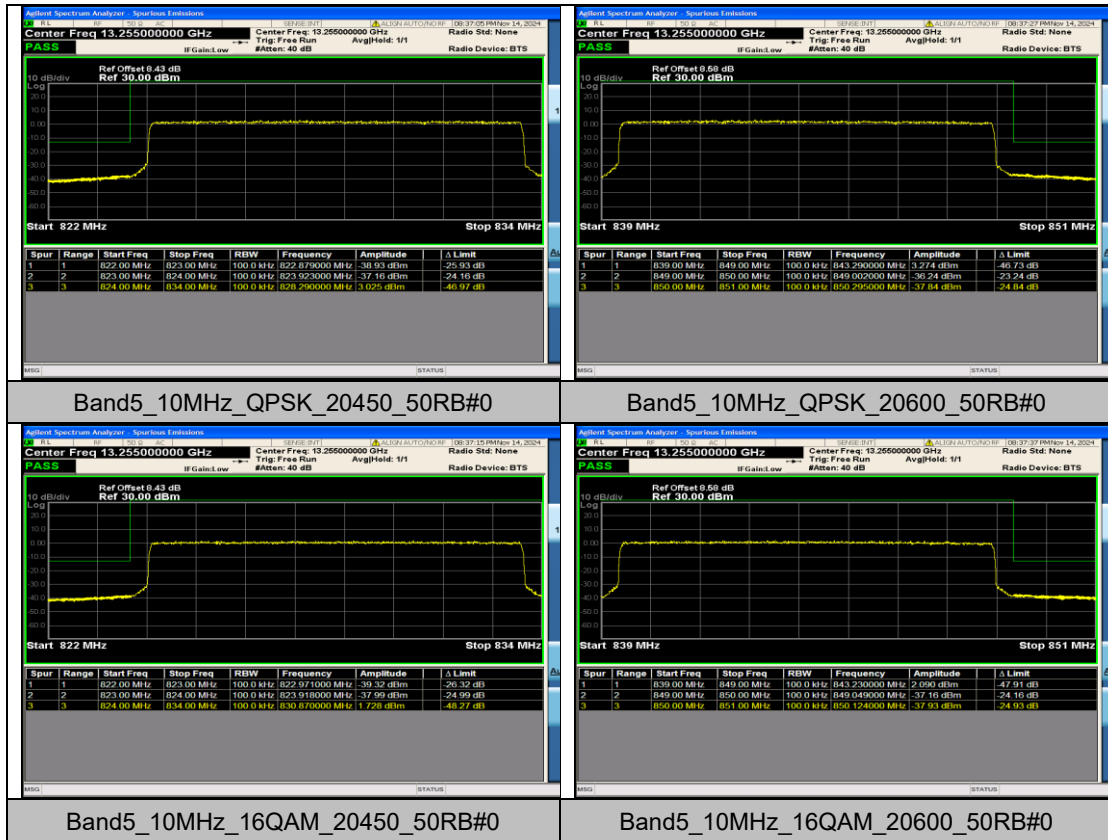
Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band5	1.4MHz	QPSK	20407	6RB#0	-28.95	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	-27.03	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	-27.45	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	-27.68	PASS
Band5	3MHz	QPSK	20415	15RB#0	-33.37	PASS
Band5	3MHz	QPSK	20635	15RB#0	-33.31	PASS
Band5	3MHz	16QAM	20415	15RB#0	-34.37	PASS
Band5	3MHz	16QAM	20635	15RB#0	-33.94	PASS
Band5	5MHz	QPSK	20425	25RB#0	-35.32	PASS
Band5	5MHz	QPSK	20625	25RB#0	-34.93	PASS
Band5	5MHz	16QAM	20425	25RB#0	-36.06	PASS
Band5	5MHz	16QAM	20625	25RB#0	-35.51	PASS
Band5	10MHz	QPSK	20450	50RB#0	-37.16	PASS
Band5	10MHz	QPSK	20600	50RB#0	-36.24	PASS
Band5	10MHz	16QAM	20450	50RB#0	-37.99	PASS
Band5	10MHz	16QAM	20600	50RB#0	-37.16	PASS

Test Graphs







Appendix E: Conducted Spurious Emission

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Frequency Range	Result (dBm)	Verdict
Band5	1.4MHz	QPSK	20407	6RB#0	0.009~0.15	-48.46	PASS
Band5	1.4MHz	QPSK	20407	6RB#0	0.15~30	-54.25	PASS
Band5	1.4MHz	QPSK	20407	6RB#0	30~1000	-44.33	PASS
Band5	1.4MHz	QPSK	20407	6RB#0	1000~3000	-45.86	PASS
Band5	1.4MHz	QPSK	20407	6RB#0	3000~10000	-37.57	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	0.009~0.15	-46.52	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	0.15~30	-53.19	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	30~1000	-48.84	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	1000~3000	-39.84	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	3000~10000	-40.51	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	0.009~0.15	-46.42	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	0.15~30	-53.24	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	30~1000	-44.32	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	1000~3000	-39.50	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	3000~10000	-40.37	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	0.009~0.15	-46.86	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	0.15~30	-52.70	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	30~1000	-48.94	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	1000~3000	-46.48	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	3000~10000	-38.11	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	0.009~0.15	-50.28	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	0.15~30	-52.87	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	30~1000	-50.31	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	1000~3000	-40.48	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	3000~10000	-42.02	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	0.009~0.15	-49.72	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	0.15~30	-54.34	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	30~1000	-47.91	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	1000~3000	-41.02	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	3000~10000	-42.05	PASS
Band5	3MHz	QPSK	20415	15RB#0	0.009~0.15	-48.52	PASS
Band5	3MHz	QPSK	20415	15RB#0	0.15~30	-53.47	PASS
Band5	3MHz	QPSK	20415	15RB#0	30~1000	-48.46	PASS
Band5	3MHz	QPSK	20415	15RB#0	1000~3000	-45.90	PASS
Band5	3MHz	QPSK	20415	15RB#0	3000~10000	-40.48	PASS
Band5	3MHz	QPSK	20525	15RB#0	0.009~0.15	-50.13	PASS

Band5	3MHz	QPSK	20525	15RB#0	0.15~30	-54.52	PASS
Band5	3MHz	QPSK	20525	15RB#0	30~1000	-48.24	PASS
Band5	3MHz	QPSK	20525	15RB#0	1000~3000	-42.82	PASS
Band5	3MHz	QPSK	20525	15RB#0	3000~10000	-42.45	PASS
Band5	3MHz	QPSK	20635	15RB#0	0.009~0.15	-45.67	PASS
Band5	3MHz	QPSK	20635	15RB#0	0.15~30	-54.50	PASS
Band5	3MHz	QPSK	20635	15RB#0	30~1000	-47.11	PASS
Band5	3MHz	QPSK	20635	15RB#0	1000~3000	-43.19	PASS
Band5	3MHz	QPSK	20635	15RB#0	3000~10000	-42.82	PASS
Band5	3MHz	16QAM	20415	15RB#0	0.009~0.15	-46.69	PASS
Band5	3MHz	16QAM	20415	15RB#0	0.15~30	-52.95	PASS
Band5	3MHz	16QAM	20415	15RB#0	30~1000	-49.60	PASS
Band5	3MHz	16QAM	20415	15RB#0	1000~3000	-46.88	PASS
Band5	3MHz	16QAM	20415	15RB#0	3000~10000	-41.05	PASS
Band5	3MHz	16QAM	20525	15RB#0	0.009~0.15	-47.17	PASS
Band5	3MHz	16QAM	20525	15RB#0	0.15~30	-53.74	PASS
Band5	3MHz	16QAM	20525	15RB#0	30~1000	-50.52	PASS
Band5	3MHz	16QAM	20525	15RB#0	1000~3000	-43.10	PASS
Band5	3MHz	16QAM	20525	15RB#0	3000~10000	-42.66	PASS
Band5	3MHz	16QAM	20635	15RB#0	0.009~0.15	-47.62	PASS
Band5	3MHz	16QAM	20635	15RB#0	0.15~30	-53.47	PASS
Band5	3MHz	16QAM	20635	15RB#0	30~1000	-49.13	PASS
Band5	3MHz	16QAM	20635	15RB#0	1000~3000	-43.54	PASS
Band5	3MHz	16QAM	20635	15RB#0	3000~10000	-43.19	PASS
Band5	5MHz	QPSK	20425	25RB#0	0.009~0.15	-45.22	PASS
Band5	5MHz	QPSK	20425	25RB#0	0.15~30	-54.22	PASS
Band5	5MHz	QPSK	20425	25RB#0	30~1000	-49.84	PASS
Band5	5MHz	QPSK	20425	25RB#0	1000~3000	-46.43	PASS
Band5	5MHz	QPSK	20425	25RB#0	3000~10000	-41.06	PASS
Band5	5MHz	QPSK	20525	25RB#0	0.009~0.15	-47.71	PASS
Band5	5MHz	QPSK	20525	25RB#0	0.15~30	-53.13	PASS
Band5	5MHz	QPSK	20525	25RB#0	30~1000	-49.96	PASS
Band5	5MHz	QPSK	20525	25RB#0	1000~3000	-44.05	PASS
Band5	5MHz	QPSK	20525	25RB#0	3000~10000	-42.63	PASS
Band5	5MHz	QPSK	20625	25RB#0	0.009~0.15	-45.06	PASS
Band5	5MHz	QPSK	20625	25RB#0	0.15~30	-53.36	PASS
Band5	5MHz	QPSK	20625	25RB#0	30~1000	-49.85	PASS
Band5	5MHz	QPSK	20625	25RB#0	1000~3000	-44.64	PASS
Band5	5MHz	QPSK	20625	25RB#0	3000~10000	-42.76	PASS
Band5	5MHz	16QAM	20425	25RB#0	0.009~0.15	-47.02	PASS
Band5	5MHz	16QAM	20425	25RB#0	0.15~30	-52.20	PASS
Band5	5MHz	16QAM	20425	25RB#0	30~1000	-52.29	PASS
Band5	5MHz	16QAM	20425	25RB#0	1000~3000	-46.65	PASS

Band5	5MHz	16QAM	20425	25RB#0	3000~10000	-42.54	PASS
Band5	5MHz	16QAM	20525	25RB#0	0.009~0.15	-47.84	PASS
Band5	5MHz	16QAM	20525	25RB#0	0.15~30	-55.68	PASS
Band5	5MHz	16QAM	20525	25RB#0	30~1000	-51.52	PASS
Band5	5MHz	16QAM	20525	25RB#0	1000~3000	-37.16	PASS
Band5	5MHz	16QAM	20525	25RB#0	3000~10000	-42.96	PASS
Band5	5MHz	16QAM	20625	25RB#0	0.009~0.15	-44.87	PASS
Band5	5MHz	16QAM	20625	25RB#0	0.15~30	-52.87	PASS
Band5	5MHz	16QAM	20625	25RB#0	30~1000	-52.21	PASS
Band5	5MHz	16QAM	20625	25RB#0	1000~3000	-45.71	PASS
Band5	5MHz	16QAM	20625	25RB#0	3000~10000	-43.32	PASS
Band5	10MHz	QPSK	20450	50RB#0	0.009~0.15	-49.29	PASS
Band5	10MHz	QPSK	20450	50RB#0	0.15~30	-54.31	PASS
Band5	10MHz	QPSK	20450	50RB#0	30~1000	-54.90	PASS
Band5	10MHz	QPSK	20450	50RB#0	1000~3000	-46.70	PASS
Band5	10MHz	QPSK	20450	50RB#0	3000~10000	-42.02	PASS
Band5	10MHz	QPSK	20525	50RB#0	0.009~0.15	-48.58	PASS
Band5	10MHz	QPSK	20525	50RB#0	0.15~30	-52.63	PASS
Band5	10MHz	QPSK	20525	50RB#0	30~1000	-61.62	PASS
Band5	10MHz	QPSK	20525	50RB#0	1000~3000	-46.33	PASS
Band5	10MHz	QPSK	20525	50RB#0	3000~10000	-43.26	PASS
Band5	10MHz	QPSK	20600	50RB#0	0.009~0.15	-46.07	PASS
Band5	10MHz	QPSK	20600	50RB#0	0.15~30	-53.62	PASS
Band5	10MHz	QPSK	20600	50RB#0	30~1000	-55.02	PASS
Band5	10MHz	QPSK	20600	50RB#0	1000~3000	-46.26	PASS
Band5	10MHz	QPSK	20600	50RB#0	3000~10000	-43.86	PASS
Band5	10MHz	16QAM	20450	50RB#0	0.009~0.15	-48.26	PASS
Band5	10MHz	16QAM	20450	50RB#0	0.15~30	-51.97	PASS
Band5	10MHz	16QAM	20450	50RB#0	30~1000	-56.28	PASS
Band5	10MHz	16QAM	20450	50RB#0	1000~3000	-46.14	PASS
Band5	10MHz	16QAM	20450	50RB#0	3000~10000	-42.89	PASS
Band5	10MHz	16QAM	20525	50RB#0	0.009~0.15	-45.70	PASS
Band5	10MHz	16QAM	20525	50RB#0	0.15~30	-53.16	PASS
Band5	10MHz	16QAM	20525	50RB#0	30~1000	-61.89	PASS
Band5	10MHz	16QAM	20525	50RB#0	1000~3000	-46.33	PASS
Band5	10MHz	16QAM	20525	50RB#0	3000~10000	-43.64	PASS
Band5	10MHz	16QAM	20600	50RB#0	0.009~0.15	-48.49	PASS
Band5	10MHz	16QAM	20600	50RB#0	0.15~30	-54.18	PASS
Band5	10MHz	16QAM	20600	50RB#0	30~1000	-56.58	PASS
Band5	10MHz	16QAM	20600	50RB#0	1000~3000	-45.96	PASS
Band5	10MHz	16QAM	20600	50RB#0	3000~10000	-43.45	PASS

Test Graphs

