

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**

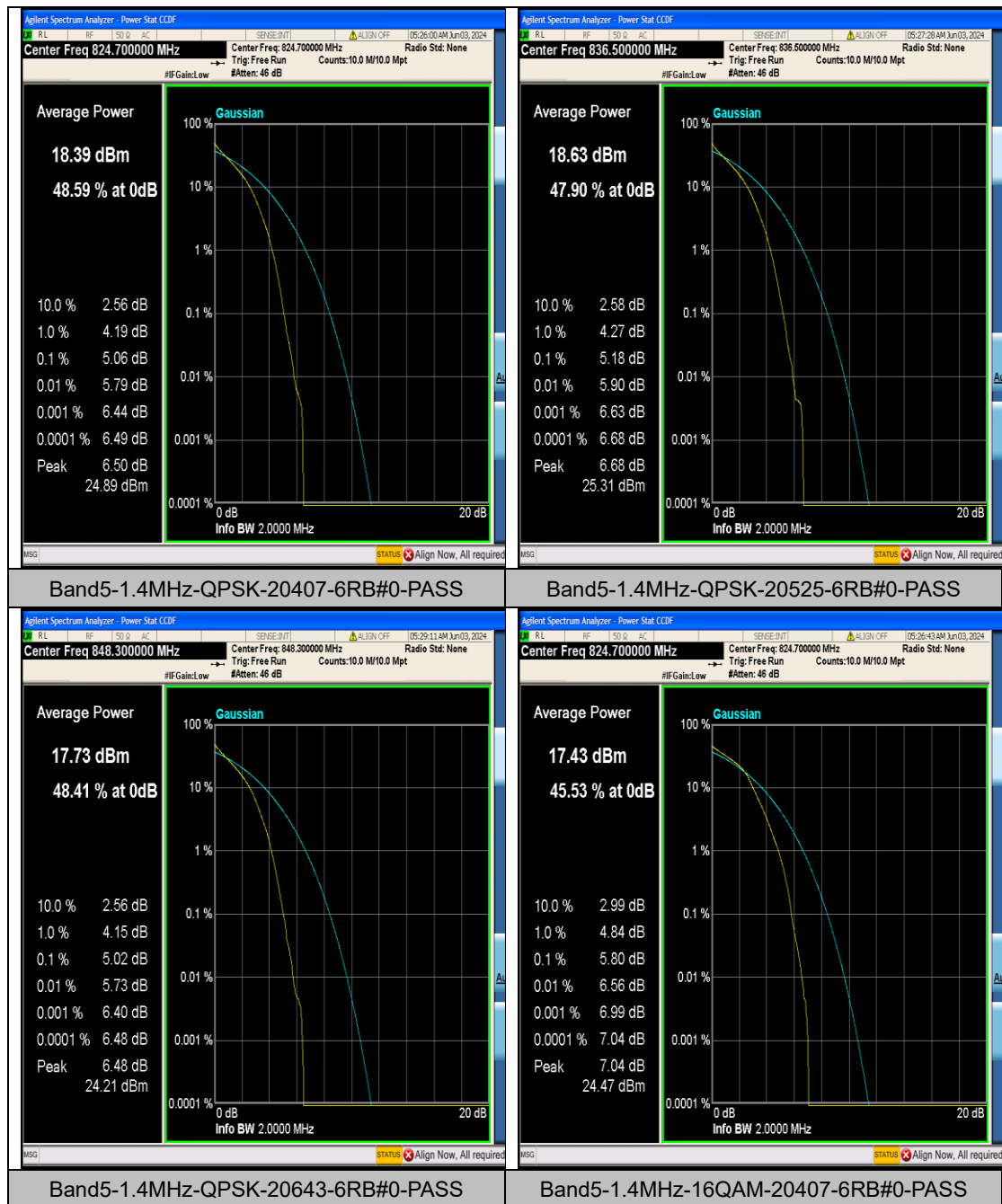
Reviewed By : **Eric Wang**

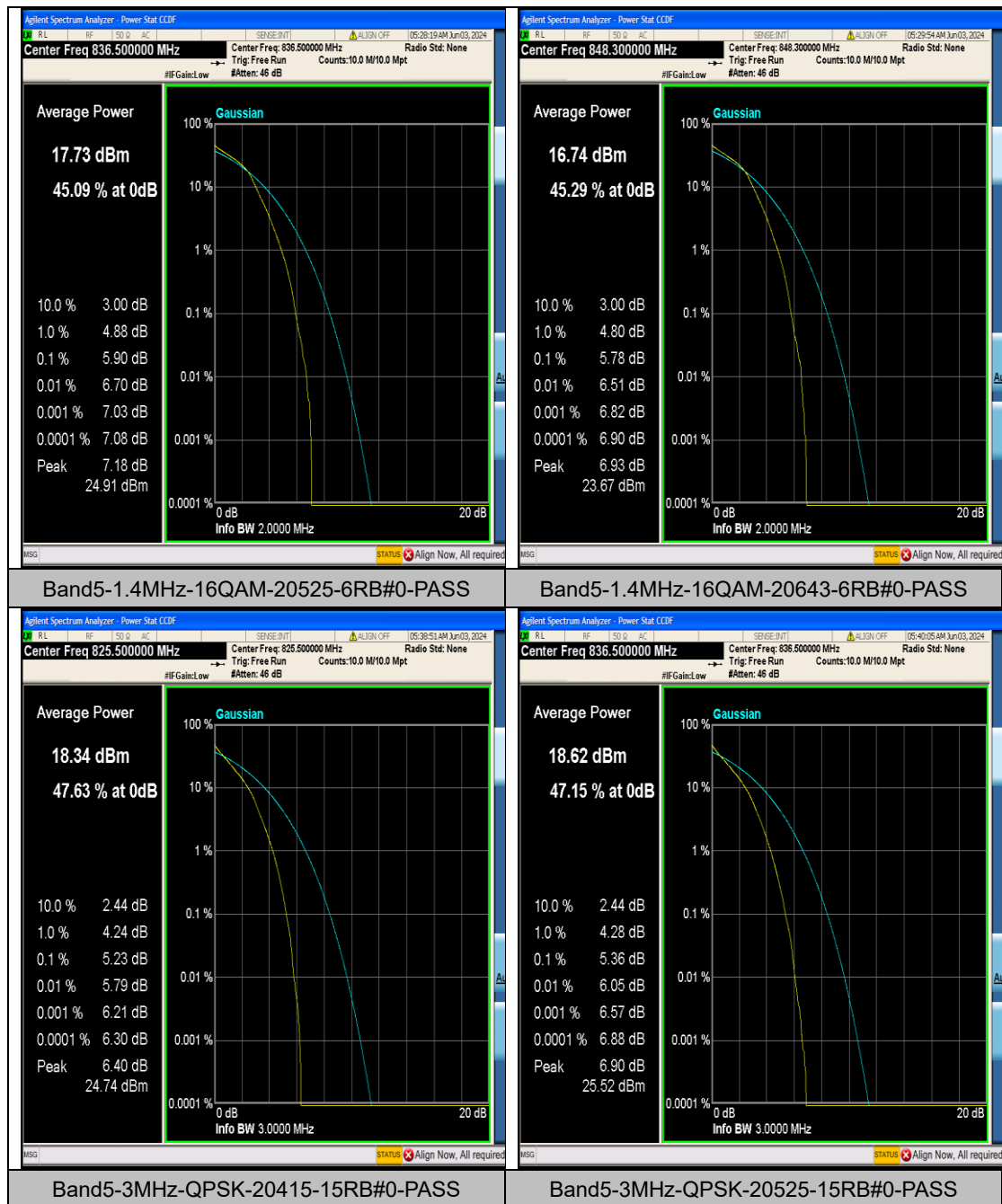
Appendix B: Peak-to-Average Ratio(CCDF)

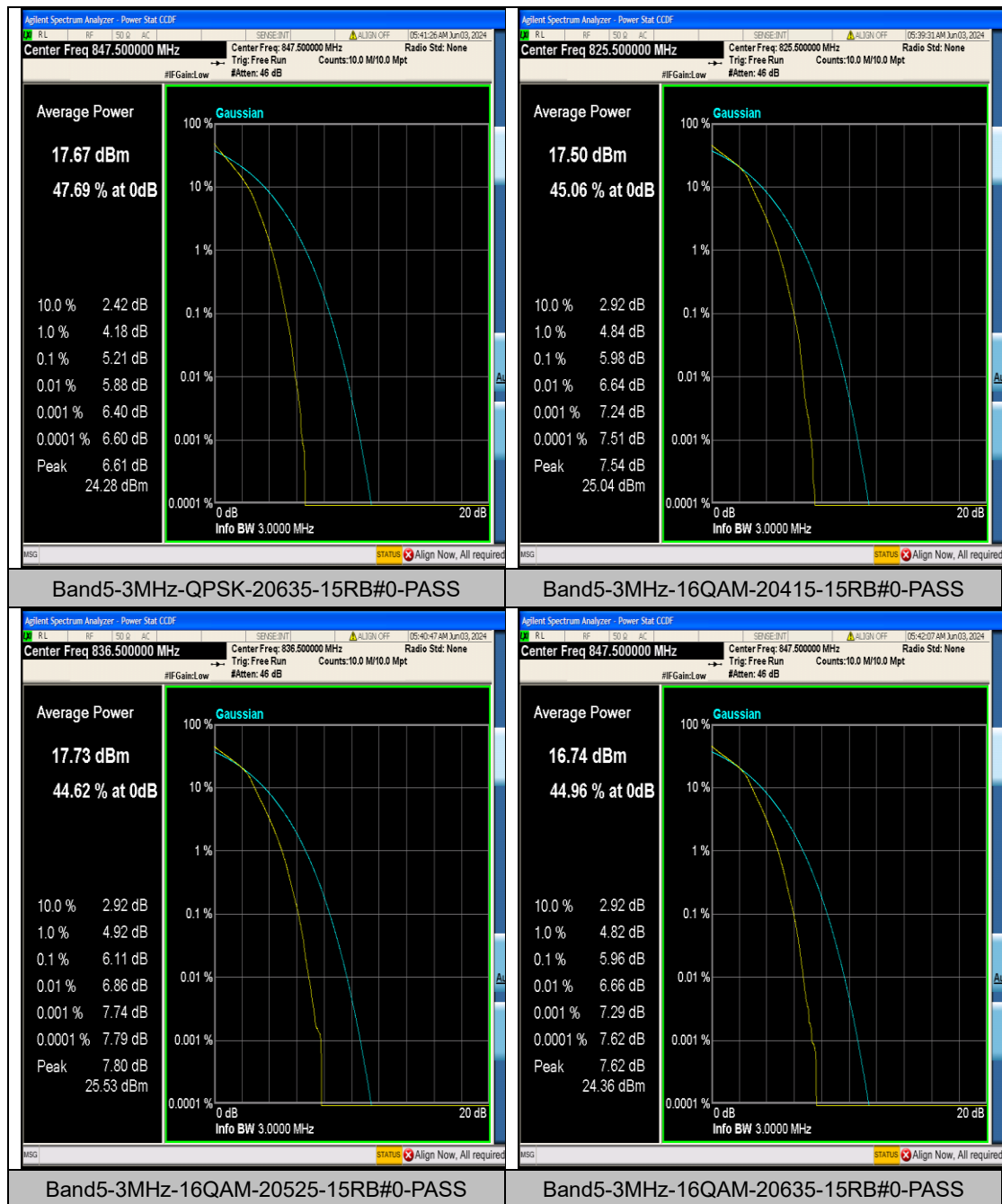
Test Result

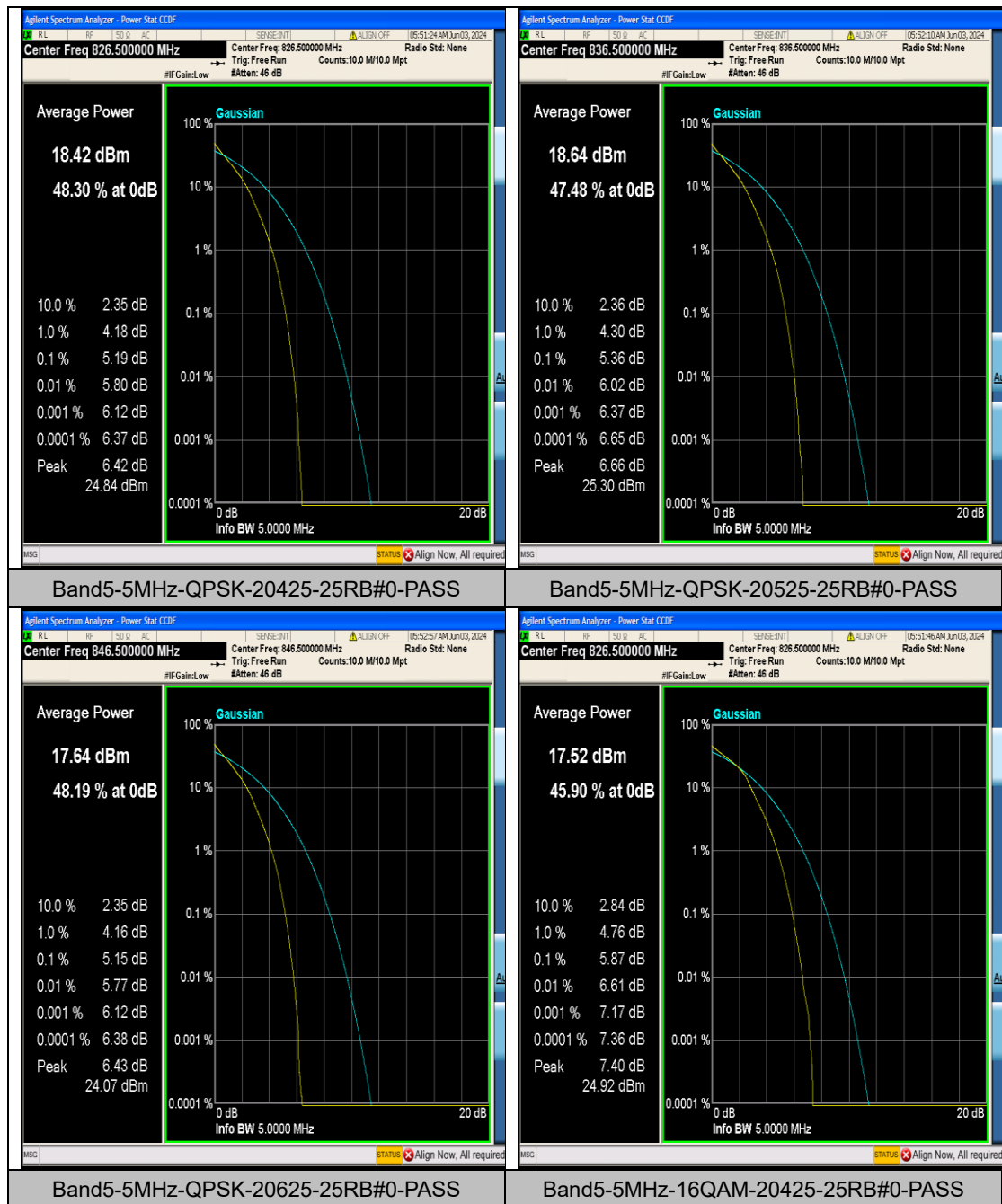
Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band5	1.4MHz	QPSK	20407	6RB#0	5.06	13	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	5.18	13	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	5.02	13	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	5.80	13	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	5.90	13	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	5.78	13	PASS
Band5	3MHz	QPSK	20415	15RB#0	5.23	13	PASS
Band5	3MHz	QPSK	20525	15RB#0	5.36	13	PASS
Band5	3MHz	QPSK	20635	15RB#0	5.21	13	PASS
Band5	3MHz	16QAM	20415	15RB#0	5.98	13	PASS
Band5	3MHz	16QAM	20525	15RB#0	6.11	13	PASS
Band5	3MHz	16QAM	20635	15RB#0	5.96	13	PASS
Band5	5MHz	QPSK	20425	25RB#0	5.19	13	PASS
Band5	5MHz	QPSK	20525	25RB#0	5.36	13	PASS
Band5	5MHz	QPSK	20625	25RB#0	5.15	13	PASS
Band5	5MHz	16QAM	20425	25RB#0	5.87	13	PASS
Band5	5MHz	16QAM	20525	25RB#0	6.06	13	PASS
Band5	5MHz	16QAM	20625	25RB#0	5.80	13	PASS
Band5	10MHz	QPSK	20450	50RB#0	5.26	13	PASS
Band5	10MHz	QPSK	20525	50RB#0	5.30	13	PASS
Band5	10MHz	QPSK	20600	50RB#0	5.23	13	PASS
Band5	10MHz	16QAM	20450	50RB#0	5.96	13	PASS
Band5	10MHz	16QAM	20525	50RB#0	6.08	13	PASS
Band5	10MHz	16QAM	20600	50RB#0	5.95	13	PASS

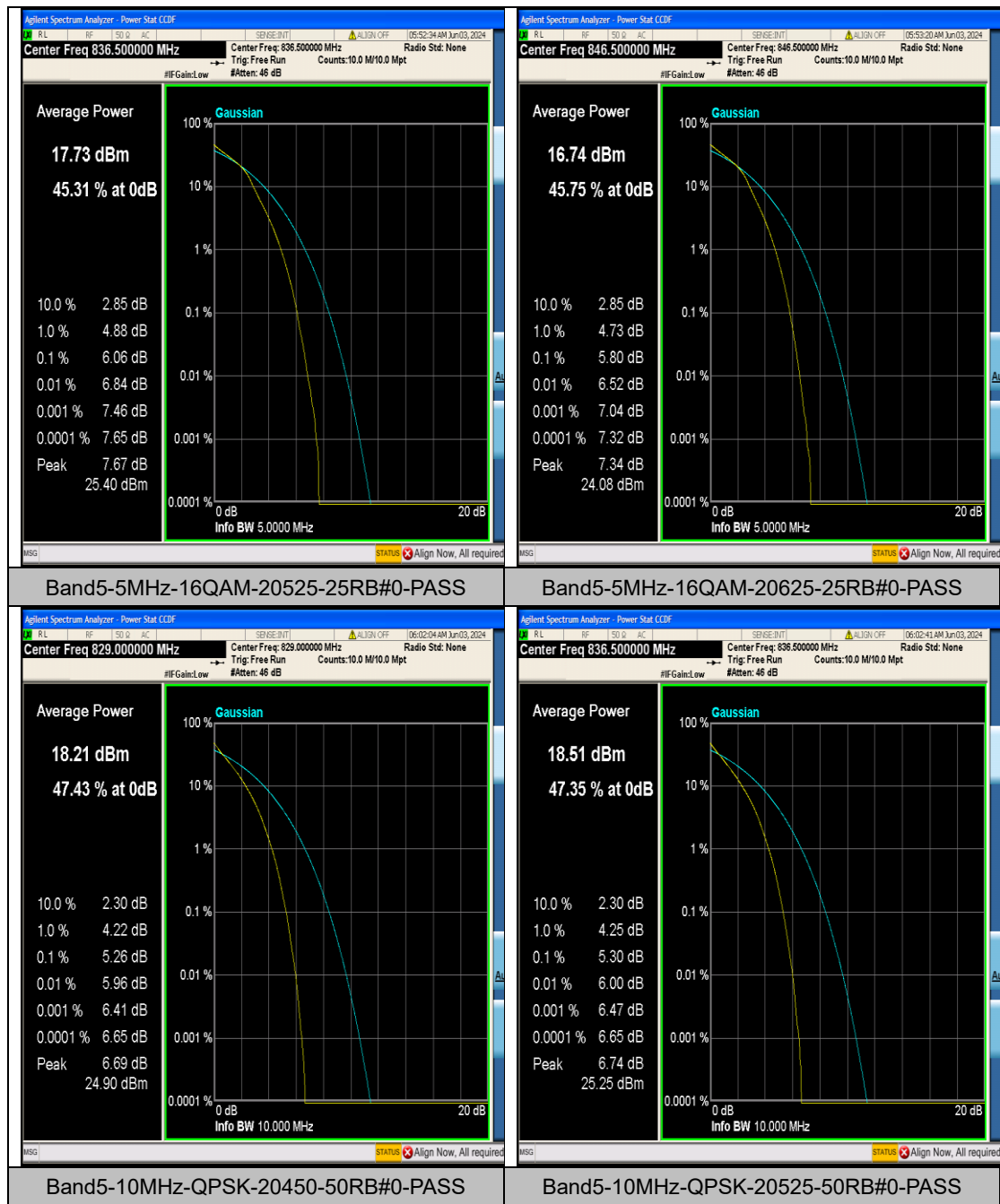
Test Graphs

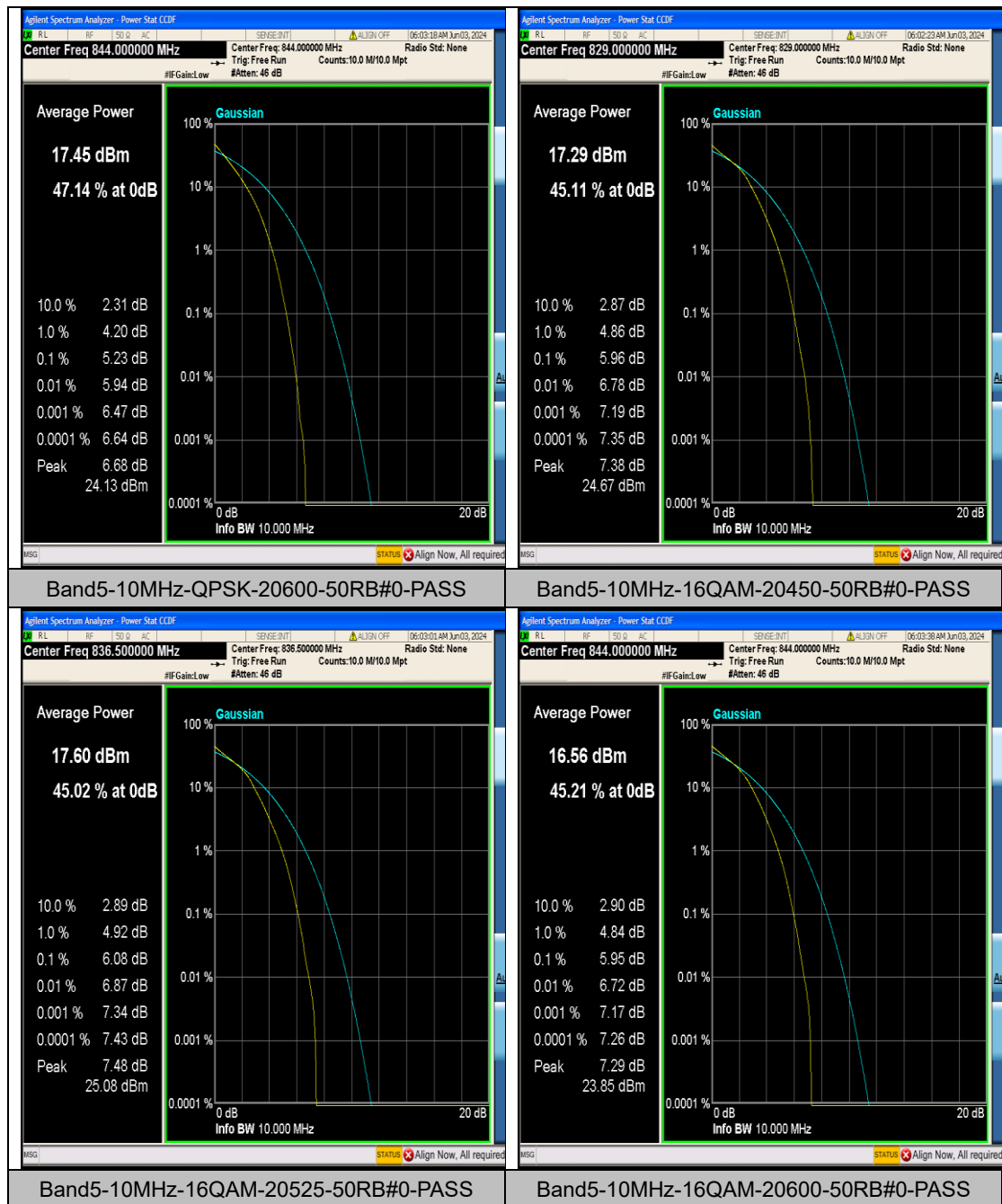










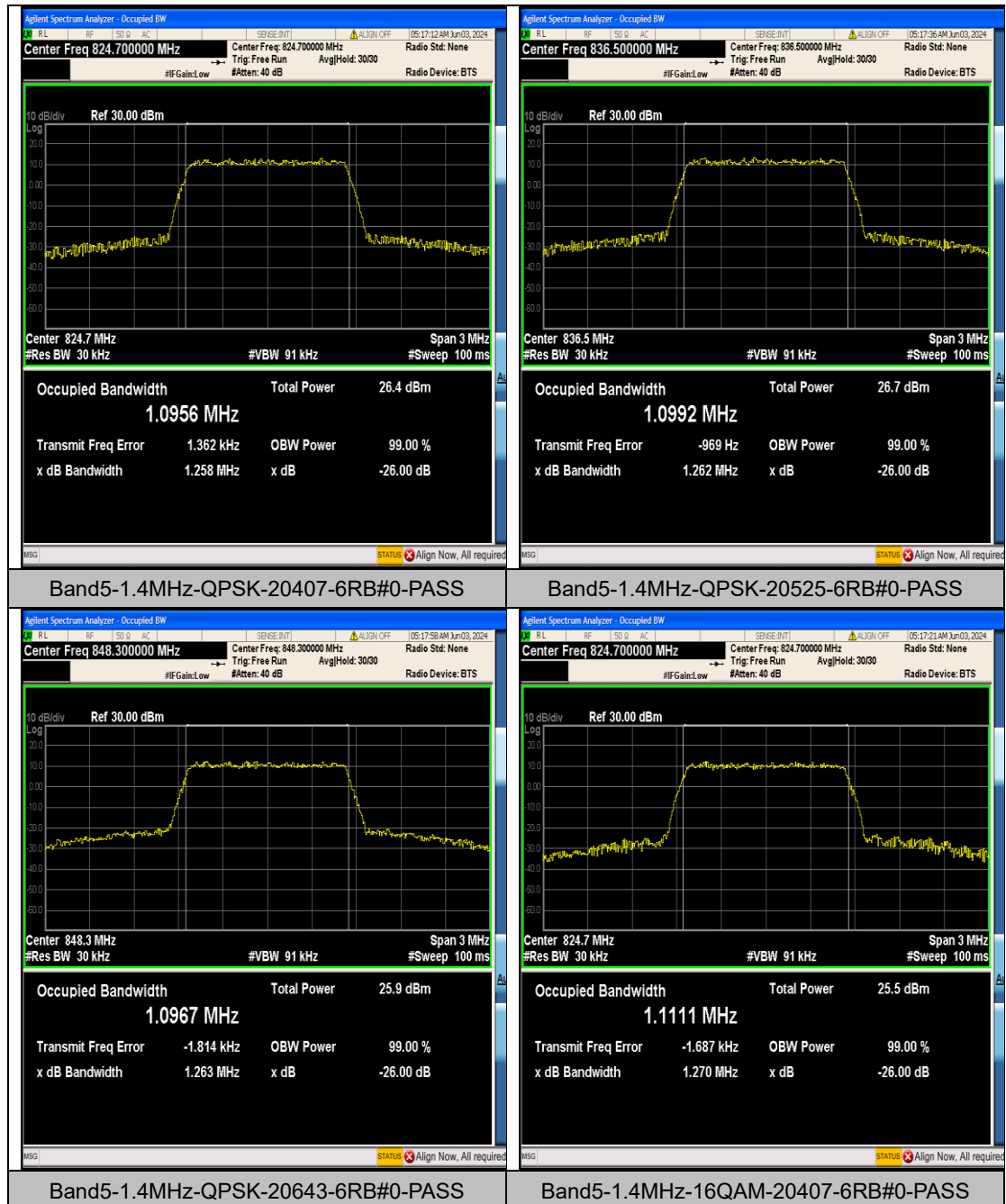


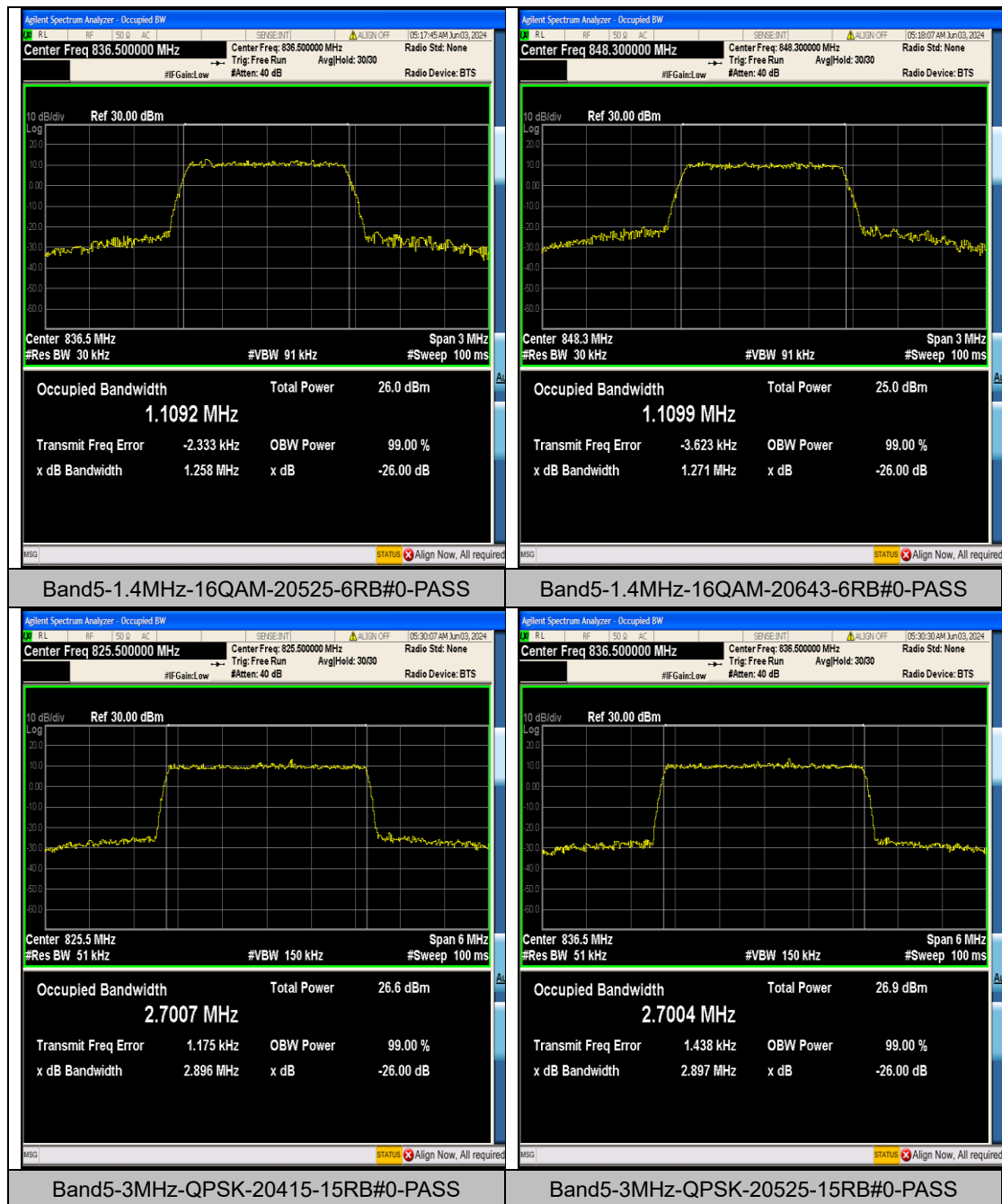
Appendix C: 26dB Bandwidth and Occupied Bandwidth

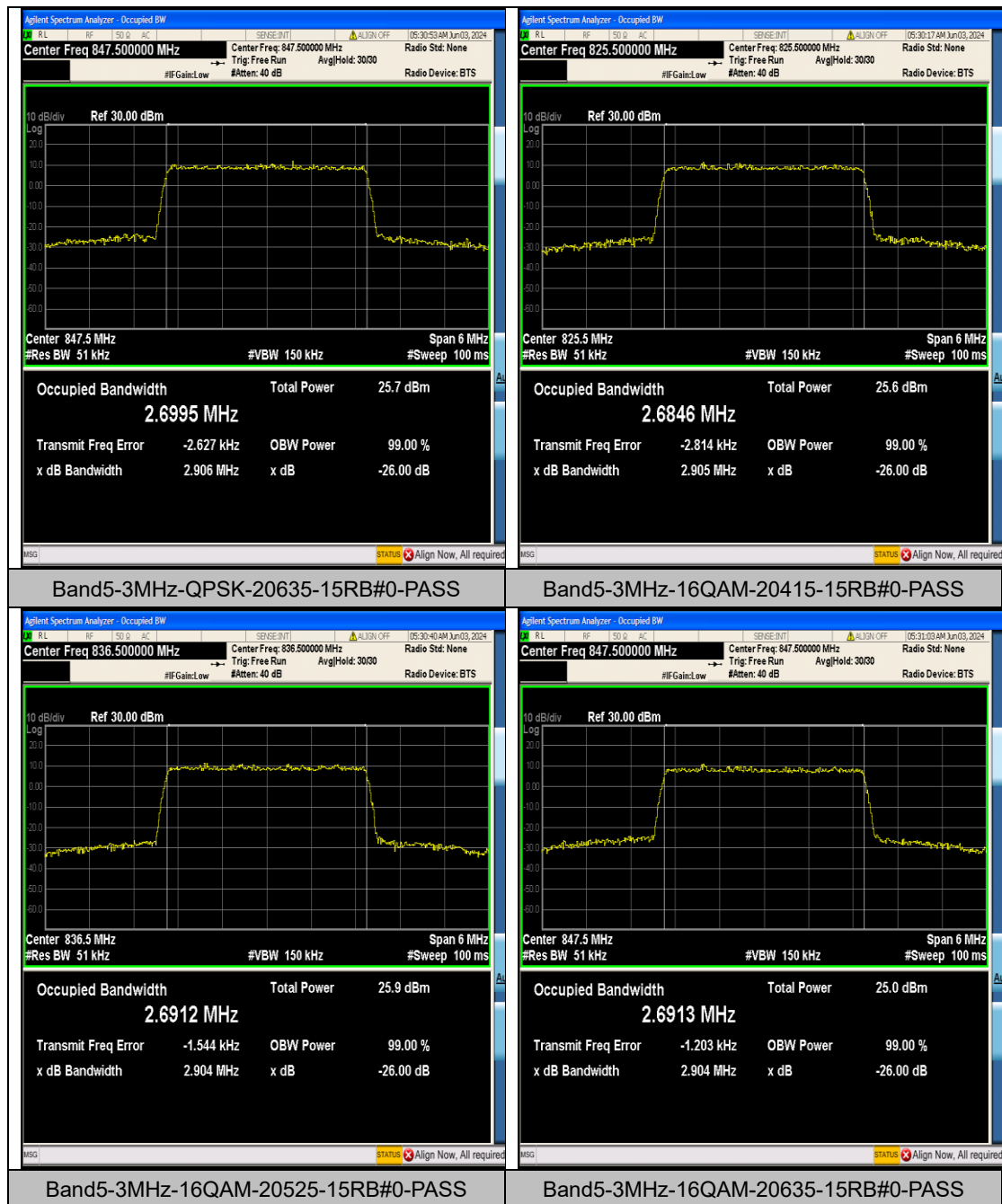
Test Result

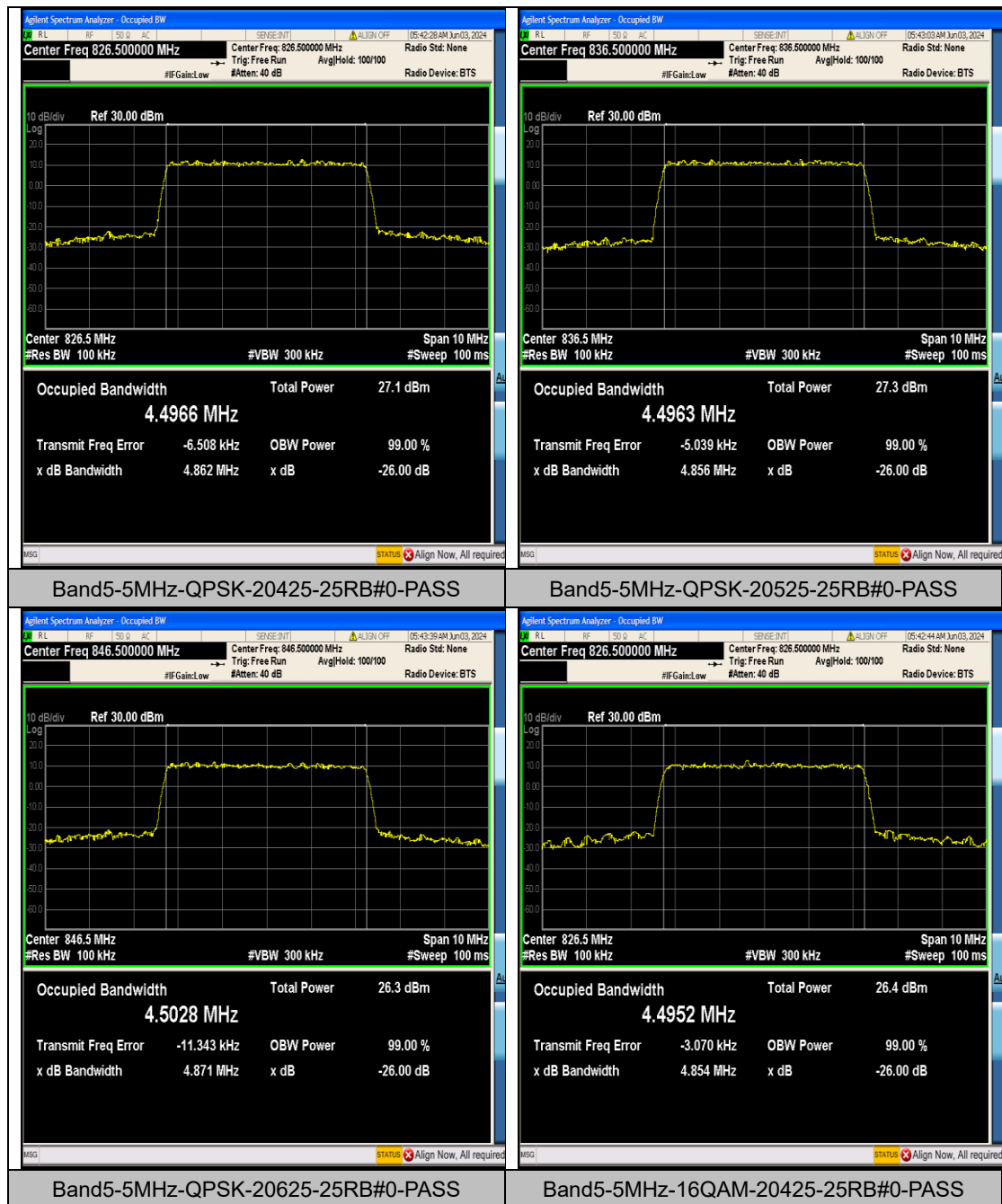
Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band5	1.4MHz	QPSK	20407	6RB#0	1.0956	1.258	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	1.0992	1.262	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	1.0967	1.263	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	1.1111	1.270	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	1.1092	1.258	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	1.1099	1.271	PASS
Band5	3MHz	QPSK	20415	15RB#0	2.7007	2.896	PASS
Band5	3MHz	QPSK	20525	15RB#0	2.7004	2.897	PASS
Band5	3MHz	QPSK	20635	15RB#0	2.6995	2.906	PASS
Band5	3MHz	16QAM	20415	15RB#0	2.6846	2.905	PASS
Band5	3MHz	16QAM	20525	15RB#0	2.6912	2.904	PASS
Band5	3MHz	16QAM	20635	15RB#0	2.6913	2.904	PASS
Band5	5MHz	QPSK	20425	25RB#0	4.4966	4.862	PASS
Band5	5MHz	QPSK	20525	25RB#0	4.4963	4.856	PASS
Band5	5MHz	QPSK	20625	25RB#0	4.5028	4.871	PASS
Band5	5MHz	16QAM	20425	25RB#0	4.4952	4.854	PASS
Band5	5MHz	16QAM	20525	25RB#0	4.4958	4.852	PASS
Band5	5MHz	16QAM	20625	25RB#0	4.5038	4.863	PASS
Band5	10MHz	QPSK	20450	50RB#0	8.9720	9.691	PASS
Band5	10MHz	QPSK	20525	50RB#0	8.9694	9.694	PASS
Band5	10MHz	QPSK	20600	50RB#0	8.9703	9.661	PASS
Band5	10MHz	16QAM	20450	50RB#0	8.9776	9.691	PASS
Band5	10MHz	16QAM	20525	50RB#0	8.9737	9.656	PASS
Band5	10MHz	16QAM	20600	50RB#0	8.9622	9.637	PASS

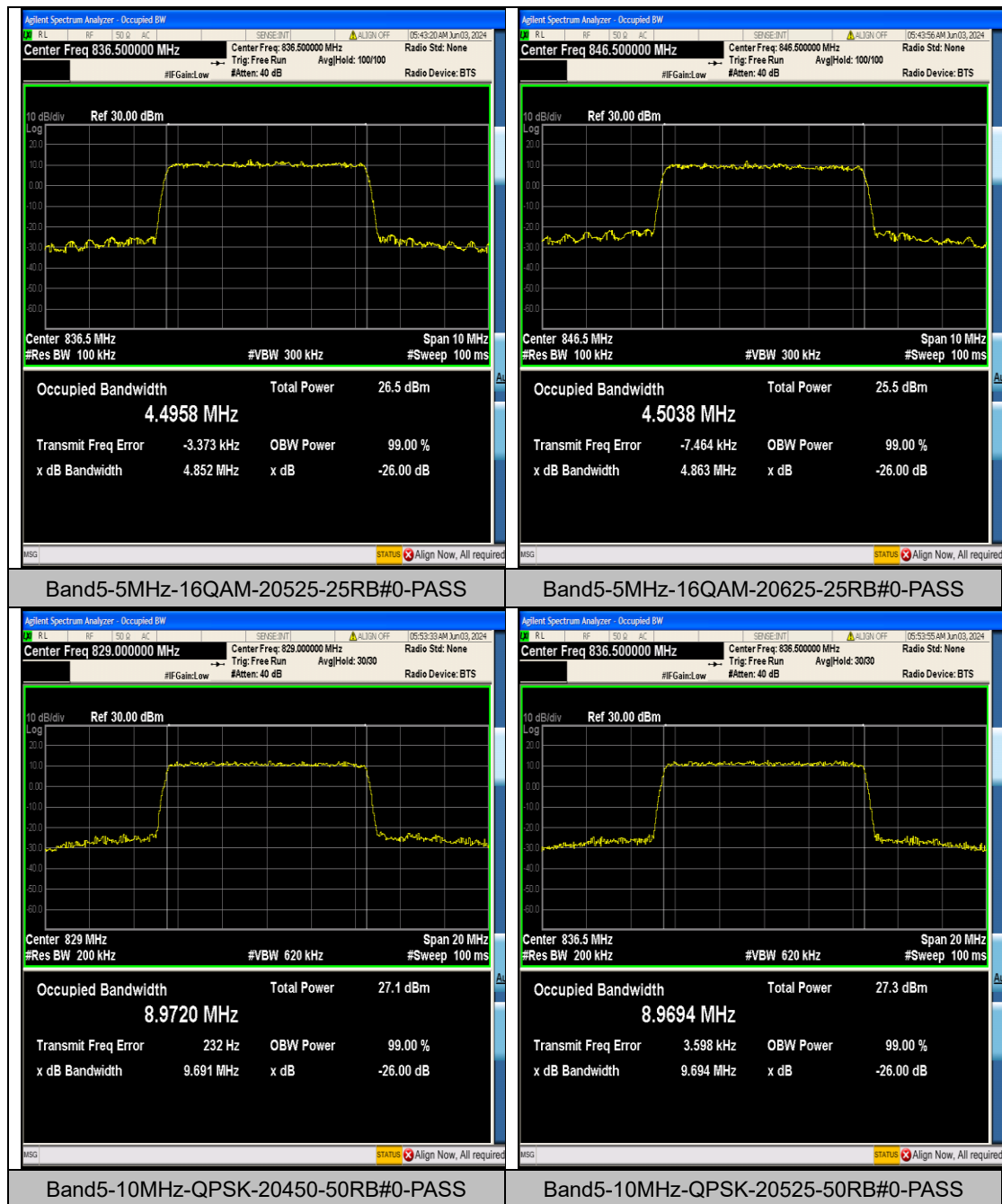
Test Graphs

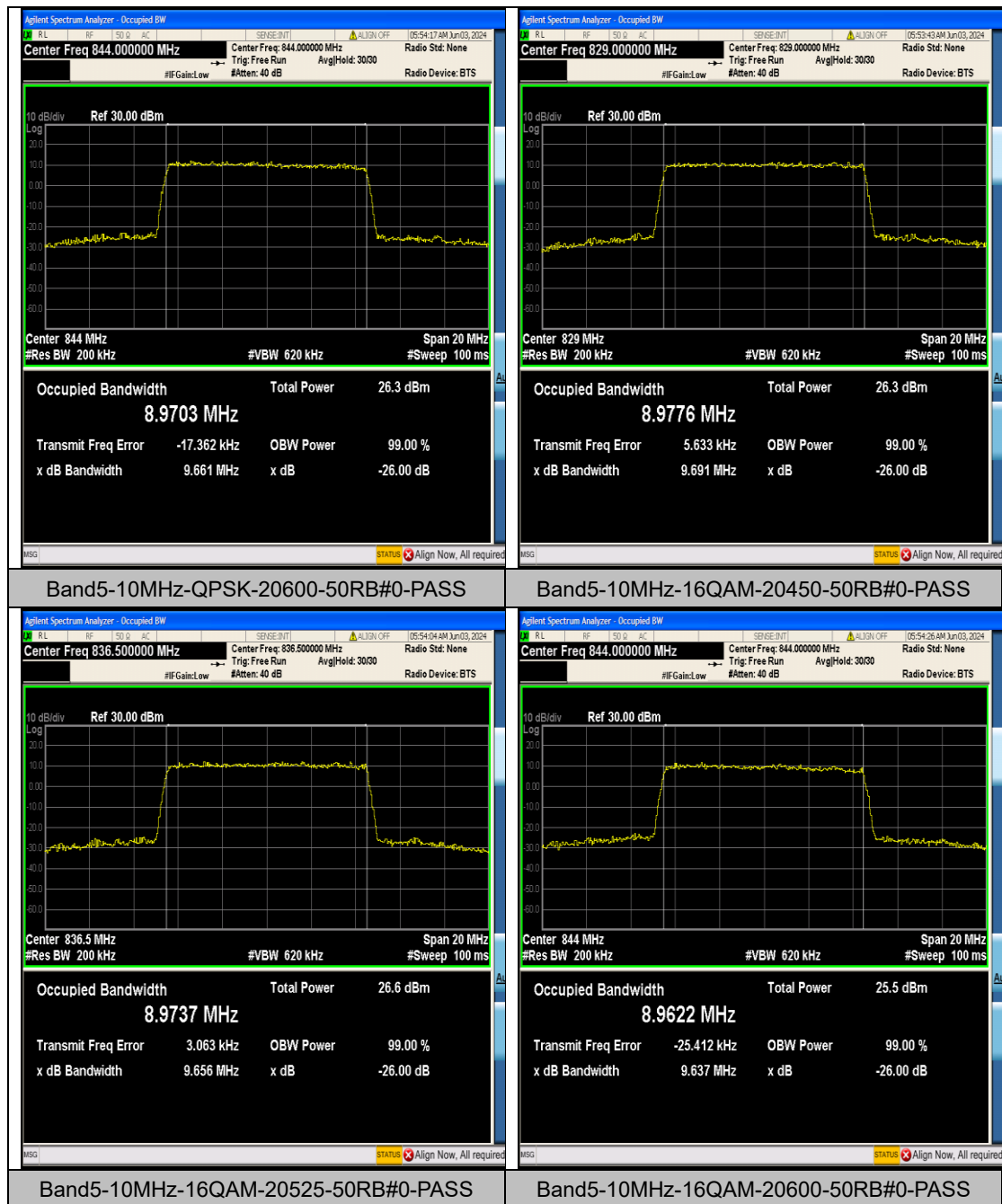










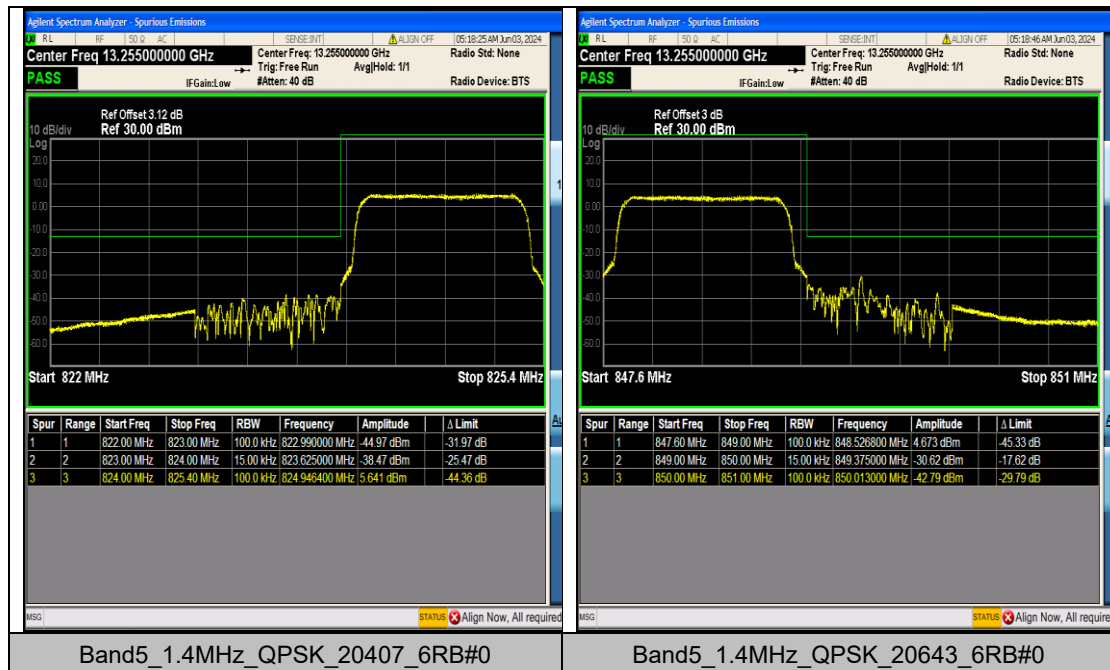


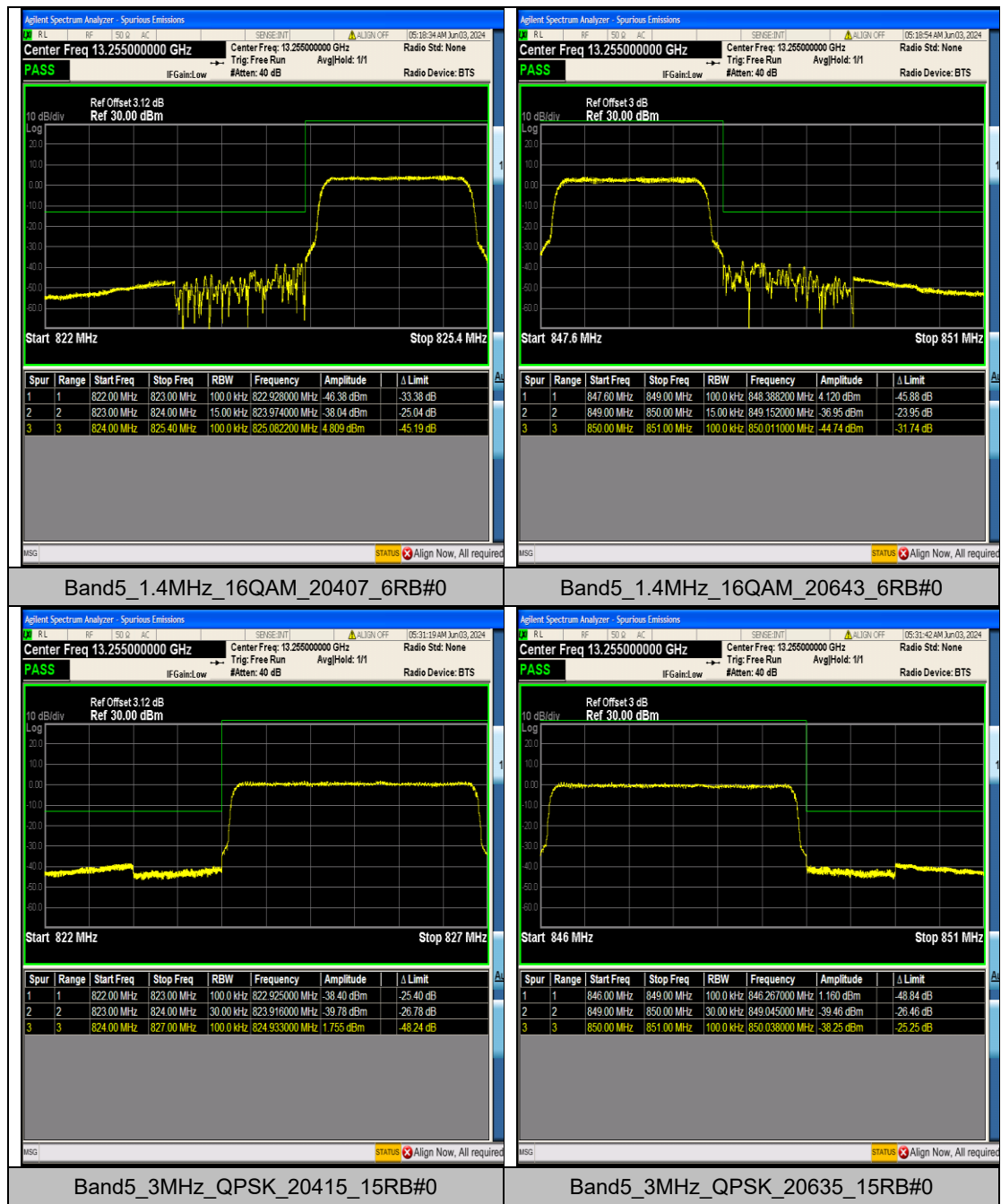
Appendix D: Band Edge

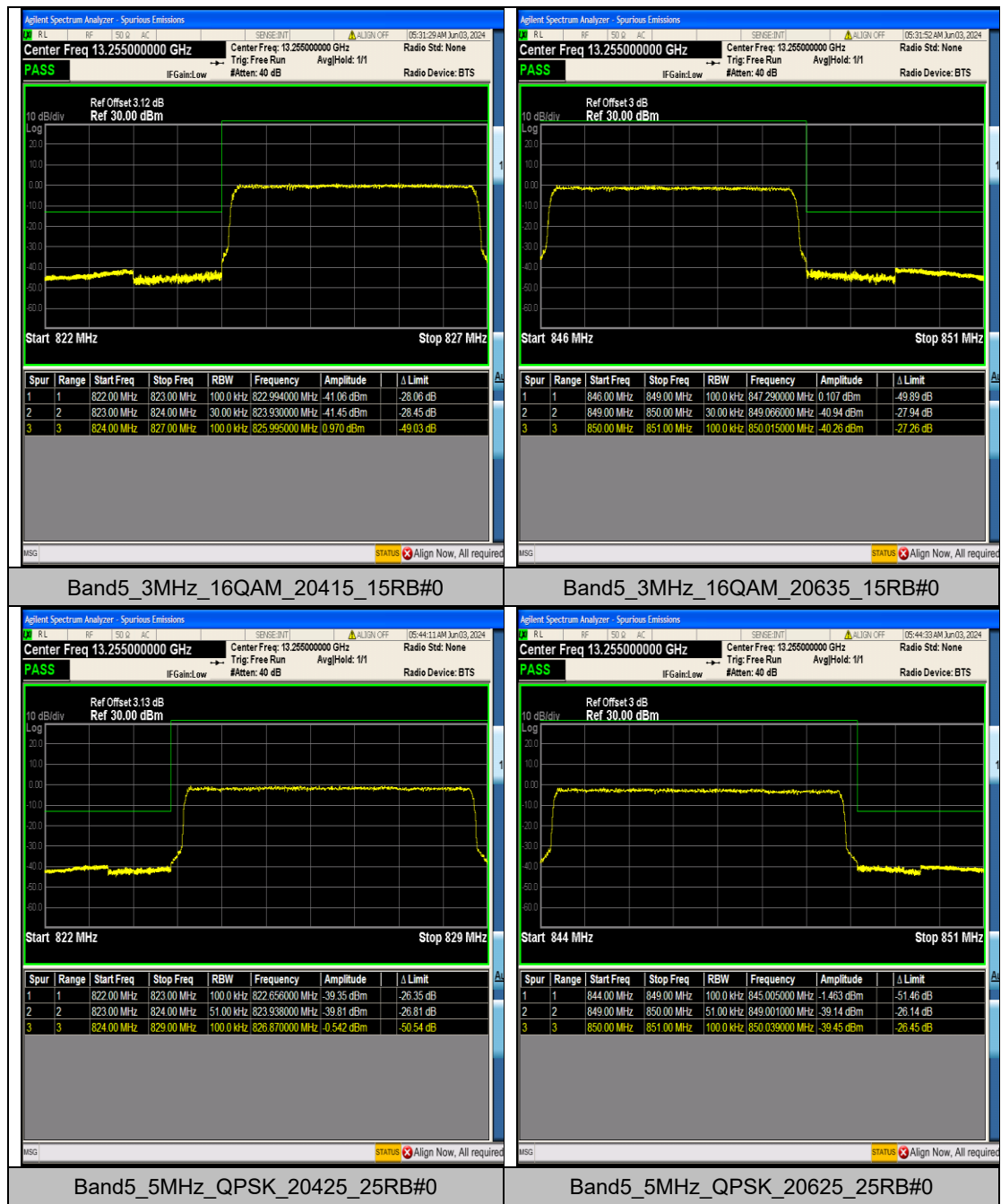
Test Result

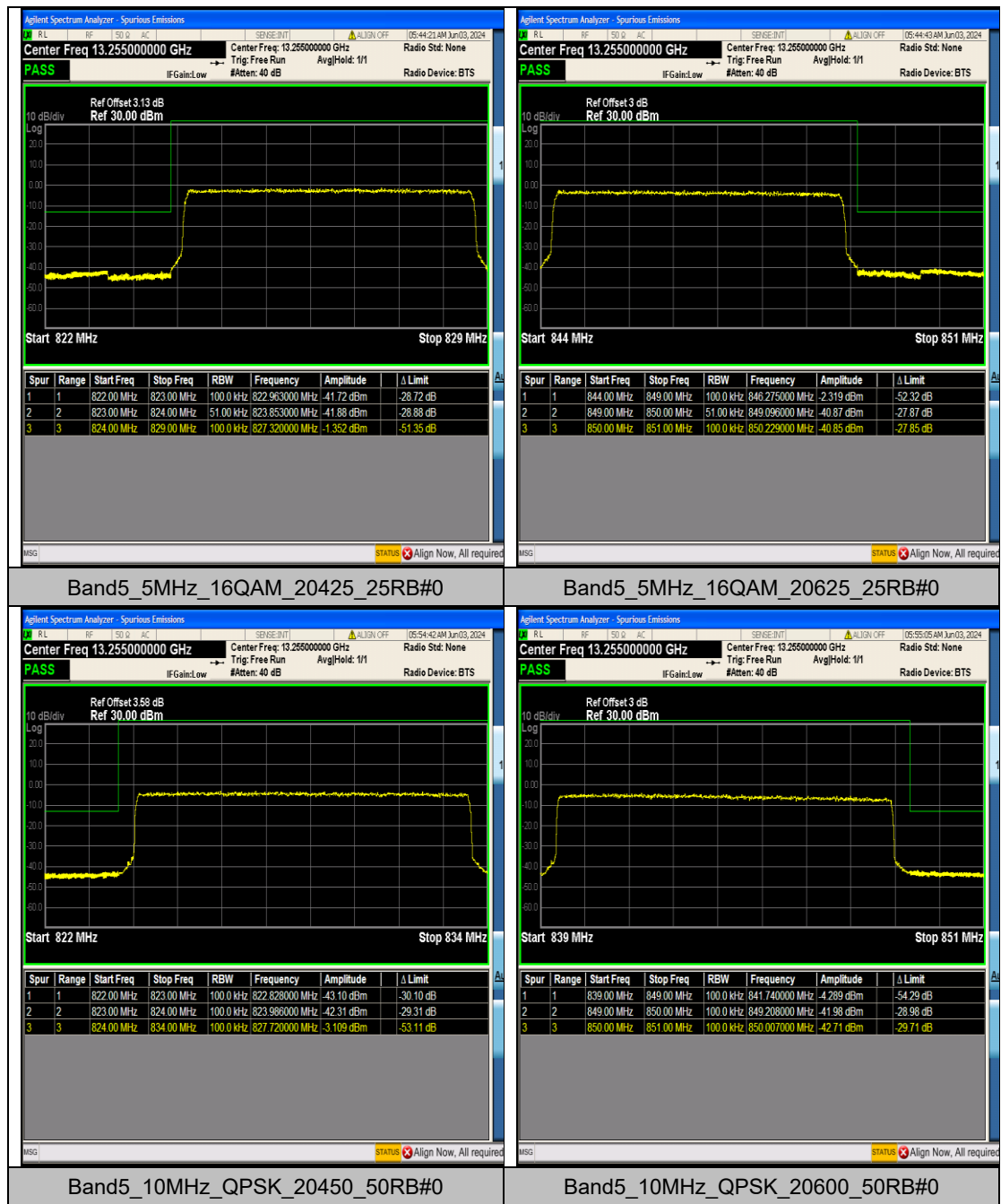
Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band5	1.4MHz	QPSK	20407	6RB#0	-38.47	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	-30.62	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	-38.04	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	-36.95	PASS
Band5	3MHz	QPSK	20415	15RB#0	-38.40	PASS
Band5	3MHz	QPSK	20635	15RB#0	-38.25	PASS
Band5	3MHz	16QAM	20415	15RB#0	-41.06	PASS
Band5	3MHz	16QAM	20635	15RB#0	-40.26	PASS
Band5	5MHz	QPSK	20425	25RB#0	-39.35	PASS
Band5	5MHz	QPSK	20625	25RB#0	-39.14	PASS
Band5	5MHz	16QAM	20425	25RB#0	-41.72	PASS
Band5	5MHz	16QAM	20625	25RB#0	-40.85	PASS
Band5	10MHz	QPSK	20450	50RB#0	-42.31	PASS
Band5	10MHz	QPSK	20600	50RB#0	-41.98	PASS
Band5	10MHz	16QAM	20450	50RB#0	-44.05	PASS
Band5	10MHz	16QAM	20600	50RB#0	-43.66	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	-50.09	PASS
Band5	1.4MHz	QPSK	20407	6RB#0	0.15~30	-58.36	PASS
Band5	1.4MHz	QPSK	20407	6RB#0	30~1000	-53.94	PASS
Band5	1.4MHz	QPSK	20407	6RB#0	1000~3000	-44.70	PASS
Band5	1.4MHz	QPSK	20407	6RB#0	3000~10000	-49.85	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	0.009~0.15	-46.73	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	0.15~30	-57.91	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	30~1000	-56.31	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	1000~3000	-51.74	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	3000~10000	-50.14	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	0.009~0.15	-50.09	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	0.15~30	-57.57	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	30~1000	-52.52	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	1000~3000	-51.77	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	3000~10000	-49.73	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	0.009~0.15	-47.53	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	0.15~30	-56.85	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	30~1000	-56.61	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	1000~3000	-45.53	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	3000~10000	-50.07	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	0.009~0.15	-48.79	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	0.15~30	-57.82	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	30~1000	-57.30	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	1000~3000	-52.31	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	3000~10000	-49.67	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	0.009~0.15	-46.25	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	0.15~30	-58.56	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	30~1000	-55.58	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	1000~3000	-52.48	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	3000~10000	-49.90	PASS
Band5	3MHz	QPSK	20415	15RB#0	0.009~0.15	-46.40	PASS
Band5	3MHz	QPSK	20415	15RB#0	0.15~30	-58.92	PASS
Band5	3MHz	QPSK	20415	15RB#0	30~1000	-57.16	PASS
Band5	3MHz	QPSK	20415	15RB#0	1000~3000	-47.71	PASS
Band5	3MHz	QPSK	20415	15RB#0	3000~10000	-50.62	PASS
Band5	3MHz	QPSK	20525	15RB#0	0.009~0.15	-45.90	PASS

Band5	3MHz	QPSK	20525	15RB#0	0.15~30	-59.15	PASS
Band5	3MHz	QPSK	20525	15RB#0	30~1000	-57.99	PASS
Band5	3MHz	QPSK	20525	15RB#0	1000~3000	-52.25	PASS
Band5	3MHz	QPSK	20525	15RB#0	3000~10000	-50.40	PASS
Band5	3MHz	QPSK	20635	15RB#0	0.009~0.15	-47.88	PASS
Band5	3MHz	QPSK	20635	15RB#0	0.15~30	-62.00	PASS
Band5	3MHz	QPSK	20635	15RB#0	30~1000	-54.91	PASS
Band5	3MHz	QPSK	20635	15RB#0	1000~3000	-52.26	PASS
Band5	3MHz	QPSK	20635	15RB#0	3000~10000	-50.69	PASS
Band5	3MHz	16QAM	20415	15RB#0	0.009~0.15	-49.24	PASS
Band5	3MHz	16QAM	20415	15RB#0	0.15~30	-59.03	PASS
Band5	3MHz	16QAM	20415	15RB#0	30~1000	-58.71	PASS
Band5	3MHz	16QAM	20415	15RB#0	1000~3000	-47.98	PASS
Band5	3MHz	16QAM	20415	15RB#0	3000~10000	-50.53	PASS
Band5	3MHz	16QAM	20525	15RB#0	0.009~0.15	-48.69	PASS
Band5	3MHz	16QAM	20525	15RB#0	0.15~30	-58.31	PASS
Band5	3MHz	16QAM	20525	15RB#0	30~1000	-59.14	PASS
Band5	3MHz	16QAM	20525	15RB#0	1000~3000	-52.57	PASS
Band5	3MHz	16QAM	20525	15RB#0	3000~10000	-50.77	PASS
Band5	3MHz	16QAM	20635	15RB#0	0.009~0.15	-47.10	PASS
Band5	3MHz	16QAM	20635	15RB#0	0.15~30	-58.33	PASS
Band5	3MHz	16QAM	20635	15RB#0	30~1000	-56.98	PASS
Band5	3MHz	16QAM	20635	15RB#0	1000~3000	-52.37	PASS
Band5	3MHz	16QAM	20635	15RB#0	3000~10000	-50.27	PASS
Band5	5MHz	QPSK	20425	25RB#0	0.009~0.15	-49.14	PASS
Band5	5MHz	QPSK	20425	25RB#0	0.15~30	-57.95	PASS
Band5	5MHz	QPSK	20425	25RB#0	30~1000	-59.30	PASS
Band5	5MHz	QPSK	20425	25RB#0	1000~3000	-49.45	PASS
Band5	5MHz	QPSK	20425	25RB#0	3000~10000	-50.48	PASS
Band5	5MHz	QPSK	20525	25RB#0	0.009~0.15	-46.18	PASS
Band5	5MHz	QPSK	20525	25RB#0	0.15~30	-60.35	PASS
Band5	5MHz	QPSK	20525	25RB#0	30~1000	-59.82	PASS
Band5	5MHz	QPSK	20525	25RB#0	1000~3000	-52.36	PASS
Band5	5MHz	QPSK	20525	25RB#0	3000~10000	-50.82	PASS
Band5	5MHz	QPSK	20625	25RB#0	0.009~0.15	-48.15	PASS
Band5	5MHz	QPSK	20625	25RB#0	0.15~30	-57.85	PASS
Band5	5MHz	QPSK	20625	25RB#0	30~1000	-59.71	PASS
Band5	5MHz	QPSK	20625	25RB#0	1000~3000	-52.70	PASS
Band5	5MHz	QPSK	20625	25RB#0	3000~10000	-50.50	PASS
Band5	5MHz	16QAM	20425	25RB#0	0.009~0.15	-48.06	PASS
Band5	5MHz	16QAM	20425	25RB#0	0.15~30	-58.85	PASS
Band5	5MHz	16QAM	20425	25RB#0	30~1000	-61.90	PASS
Band5	5MHz	16QAM	20425	25RB#0	1000~3000	-50.09	PASS

Band5	5MHz	16QAM	20425	25RB#0	3000~10000	-50.33	PASS
Band5	5MHz	16QAM	20525	25RB#0	0.009~0.15	-46.36	PASS
Band5	5MHz	16QAM	20525	25RB#0	0.15~30	-59.45	PASS
Band5	5MHz	16QAM	20525	25RB#0	30~1000	-61.53	PASS
Band5	5MHz	16QAM	20525	25RB#0	1000~3000	-52.28	PASS
Band5	5MHz	16QAM	20525	25RB#0	3000~10000	-50.61	PASS
Band5	5MHz	16QAM	20625	25RB#0	0.009~0.15	-46.78	PASS
Band5	5MHz	16QAM	20625	25RB#0	0.15~30	-57.35	PASS
Band5	5MHz	16QAM	20625	25RB#0	30~1000	-61.67	PASS
Band5	5MHz	16QAM	20625	25RB#0	1000~3000	-52.27	PASS
Band5	5MHz	16QAM	20625	25RB#0	3000~10000	-50.31	PASS
Band5	10MHz	QPSK	20450	50RB#0	0.009~0.15	-48.71	PASS
Band5	10MHz	QPSK	20450	50RB#0	0.15~30	-57.03	PASS
Band5	10MHz	QPSK	20450	50RB#0	30~1000	-63.02	PASS
Band5	10MHz	QPSK	20450	50RB#0	1000~3000	-52.33	PASS
Band5	10MHz	QPSK	20450	50RB#0	3000~10000	-50.61	PASS
Band5	10MHz	QPSK	20525	50RB#0	0.009~0.15	-51.65	PASS
Band5	10MHz	QPSK	20525	50RB#0	0.15~30	-59.09	PASS
Band5	10MHz	QPSK	20525	50RB#0	30~1000	-66.53	PASS
Band5	10MHz	QPSK	20525	50RB#0	1000~3000	-52.43	PASS
Band5	10MHz	QPSK	20525	50RB#0	3000~10000	-50.68	PASS
Band5	10MHz	QPSK	20600	50RB#0	0.009~0.15	-50.45	PASS
Band5	10MHz	QPSK	20600	50RB#0	0.15~30	-59.73	PASS
Band5	10MHz	QPSK	20600	50RB#0	30~1000	-63.90	PASS
Band5	10MHz	QPSK	20600	50RB#0	1000~3000	-51.85	PASS
Band5	10MHz	QPSK	20600	50RB#0	3000~10000	-50.50	PASS
Band5	10MHz	16QAM	20450	50RB#0	0.009~0.15	-49.74	PASS
Band5	10MHz	16QAM	20450	50RB#0	0.15~30	-61.02	PASS
Band5	10MHz	16QAM	20450	50RB#0	30~1000	-62.46	PASS
Band5	10MHz	16QAM	20450	50RB#0	1000~3000	-52.23	PASS
Band5	10MHz	16QAM	20450	50RB#0	3000~10000	-50.62	PASS
Band5	10MHz	16QAM	20525	50RB#0	0.009~0.15	-45.66	PASS
Band5	10MHz	16QAM	20525	50RB#0	0.15~30	-59.61	PASS
Band5	10MHz	16QAM	20525	50RB#0	30~1000	-66.71	PASS
Band5	10MHz	16QAM	20525	50RB#0	1000~3000	-52.17	PASS
Band5	10MHz	16QAM	20525	50RB#0	3000~10000	-50.58	PASS
Band5	10MHz	16QAM	20600	50RB#0	0.009~0.15	-51.60	PASS
Band5	10MHz	16QAM	20600	50RB#0	0.15~30	-58.99	PASS
Band5	10MHz	16QAM	20600	50RB#0	30~1000	-64.08	PASS
Band5	10MHz	16QAM	20600	50RB#0	1000~3000	-52.60	PASS
Band5	10MHz	16QAM	20600	50RB#0	3000~10000	-50.36	PASS

Test Graphs

