

Appendix for LTE BAND 17

Product Name: Smart Phone

Model No: Nova

Appendix A: Average Power Output Data

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band17	5MHz	QPSK	23755	1RB#0	23.93	PASS
Band17	5MHz	16QAM	23755	1RB#0	22.96	PASS
Band17	5MHz	QPSK	23755	1RB#12	24.09	PASS
Band17	5MHz	16QAM	23755	1RB#12	23.12	PASS
Band17	5MHz	QPSK	23755	1RB#24	23.94	PASS
Band17	5MHz	16QAM	23755	1RB#24	22.98	PASS
Band17	5MHz	QPSK	23755	12RB#0	23.01	PASS
Band17	5MHz	16QAM	23755	12RB#0	22.01	PASS
Band17	5MHz	QPSK	23755	12RB#6	23.05	PASS
Band17	5MHz	16QAM	23755	12RB#6	22.01	PASS
Band17	5MHz	QPSK	23755	12RB#13	23.11	PASS
Band17	5MHz	16QAM	23755	12RB#13	22.03	PASS
Band17	5MHz	QPSK	23755	25RB#0	23.08	PASS
Band17	5MHz	16QAM	23755	25RB#0	22.09	PASS
Band17	5MHz	QPSK	23790	1RB#0	23.97	PASS
Band17	5MHz	16QAM	23790	1RB#0	23.16	PASS
Band17	5MHz	QPSK	23790	1RB#12	24.00	PASS
Band17	5MHz	16QAM	23790	1RB#12	23.24	PASS
Band17	5MHz	QPSK	23790	1RB#24	23.91	PASS
Band17	5MHz	16QAM	23790	1RB#24	23.14	PASS
Band17	5MHz	QPSK	23790	12RB#0	23.01	PASS
Band17	5MHz	16QAM	23790	12RB#0	21.96	PASS
Band17	5MHz	QPSK	23790	12RB#6	23.04	PASS
Band17	5MHz	16QAM	23790	12RB#6	22.02	PASS
Band17	5MHz	QPSK	23790	12RB#13	22.94	PASS
Band17	5MHz	16QAM	23790	12RB#13	21.99	PASS
Band17	5MHz	QPSK	23790	25RB#0	23.05	PASS
Band17	5MHz	16QAM	23790	25RB#0	21.99	PASS
Band17	5MHz	QPSK	23825	1RB#0	23.96	PASS
Band17	5MHz	16QAM	23825	1RB#0	23.00	PASS
Band17	5MHz	QPSK	23825	1RB#12	24.08	PASS
Band17	5MHz	16QAM	23825	1RB#12	23.13	PASS
Band17	5MHz	QPSK	23825	1RB#24	23.81	PASS
Band17	5MHz	16QAM	23825	1RB#24	22.92	PASS
Band17	5MHz	QPSK	23825	12RB#0	23.04	PASS
Band17	5MHz	16QAM	23825	12RB#0	22.05	PASS

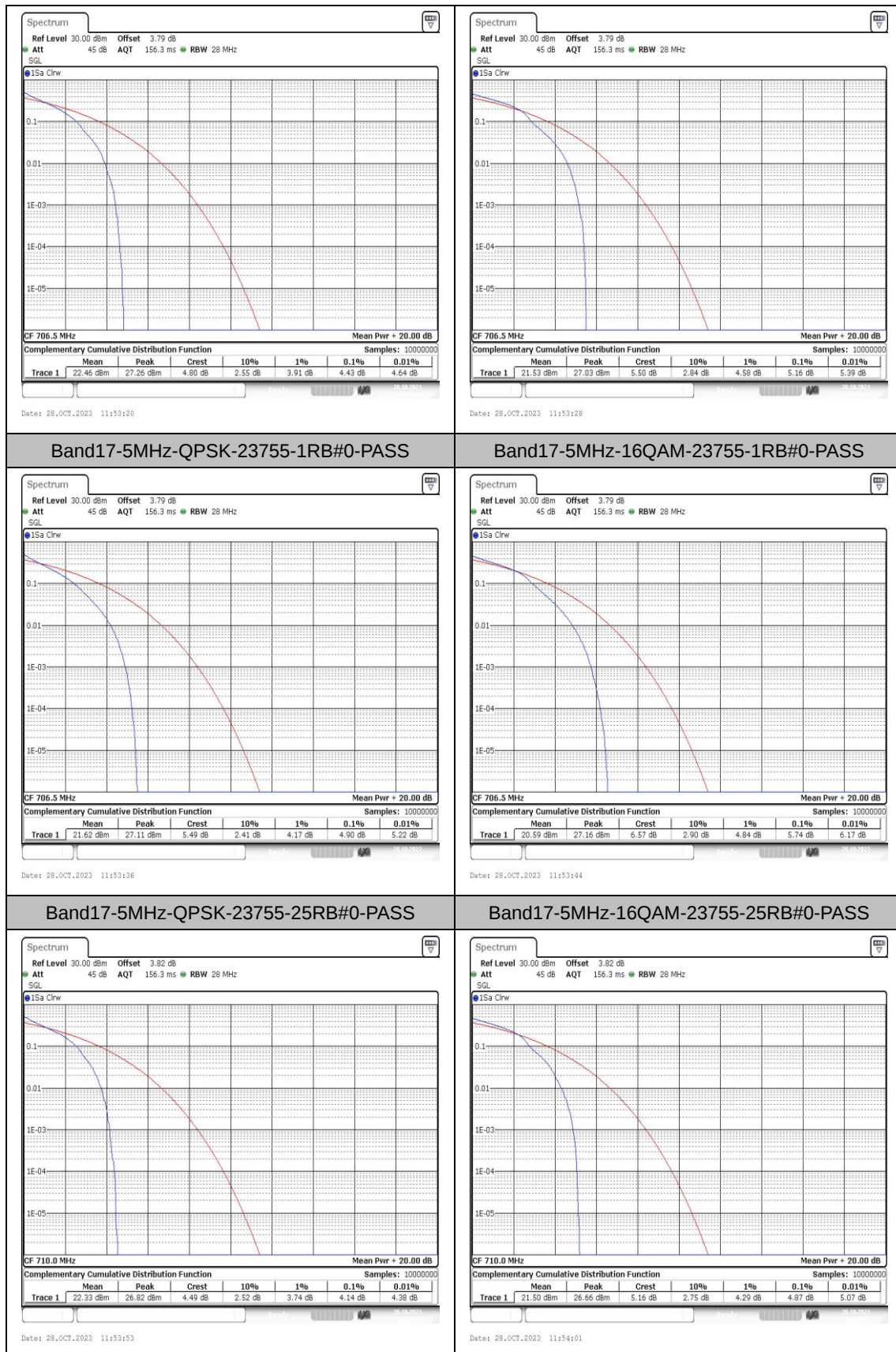
Band17	5MHz	QPSK	23825	12RB#6	23.02	PASS
Band17	5MHz	16QAM	23825	12RB#6	22.04	PASS
Band17	5MHz	QPSK	23825	12RB#13	22.93	PASS
Band17	5MHz	16QAM	23825	12RB#13	21.95	PASS
Band17	5MHz	QPSK	23825	25RB#0	22.98	PASS
Band17	5MHz	16QAM	23825	25RB#0	22.04	PASS
Band17	10MHz	QPSK	23780	1RB#0	23.97	PASS
Band17	10MHz	16QAM	23780	1RB#0	22.97	PASS
Band17	10MHz	QPSK	23780	1RB#24	24.14	PASS
Band17	10MHz	16QAM	23780	1RB#24	23.23	PASS
Band17	10MHz	QPSK	23780	1RB#49	23.90	PASS
Band17	10MHz	16QAM	23780	1RB#49	22.94	PASS
Band17	10MHz	QPSK	23780	25RB#0	23.09	PASS
Band17	10MHz	16QAM	23780	25RB#0	22.02	PASS
Band17	10MHz	QPSK	23780	25RB#12	23.08	PASS
Band17	10MHz	16QAM	23780	25RB#12	22.06	PASS
Band17	10MHz	QPSK	23780	25RB#25	23.06	PASS
Band17	10MHz	16QAM	23780	25RB#25	22.03	PASS
Band17	10MHz	QPSK	23780	50RB#0	23.08	PASS
Band17	10MHz	16QAM	23780	50RB#0	22.07	PASS
Band17	10MHz	QPSK	23790	1RB#0	24.06	PASS
Band17	10MHz	16QAM	23790	1RB#0	22.91	PASS
Band17	10MHz	QPSK	23790	1RB#24	24.11	PASS
Band17	10MHz	16QAM	23790	1RB#24	22.90	PASS
Band17	10MHz	QPSK	23790	1RB#49	23.96	PASS
Band17	10MHz	16QAM	23790	1RB#49	22.78	PASS
Band17	10MHz	QPSK	23790	25RB#0	23.08	PASS
Band17	10MHz	16QAM	23790	25RB#0	22.05	PASS
Band17	10MHz	QPSK	23790	25RB#12	23.05	PASS
Band17	10MHz	16QAM	23790	25RB#12	22.03	PASS
Band17	10MHz	QPSK	23790	25RB#25	23.00	PASS
Band17	10MHz	16QAM	23790	25RB#25	22.00	PASS
Band17	10MHz	QPSK	23790	50RB#0	23.02	PASS
Band17	10MHz	16QAM	23790	50RB#0	22.02	PASS
Band17	10MHz	QPSK	23800	1RB#0	24.03	PASS
Band17	10MHz	16QAM	23800	1RB#0	22.84	PASS
Band17	10MHz	QPSK	23800	1RB#24	24.09	PASS
Band17	10MHz	16QAM	23800	1RB#24	22.85	PASS
Band17	10MHz	QPSK	23800	1RB#49	23.85	PASS
Band17	10MHz	16QAM	23800	1RB#49	22.66	PASS
Band17	10MHz	QPSK	23800	25RB#0	23.07	PASS
Band17	10MHz	16QAM	23800	25RB#0	22.08	PASS

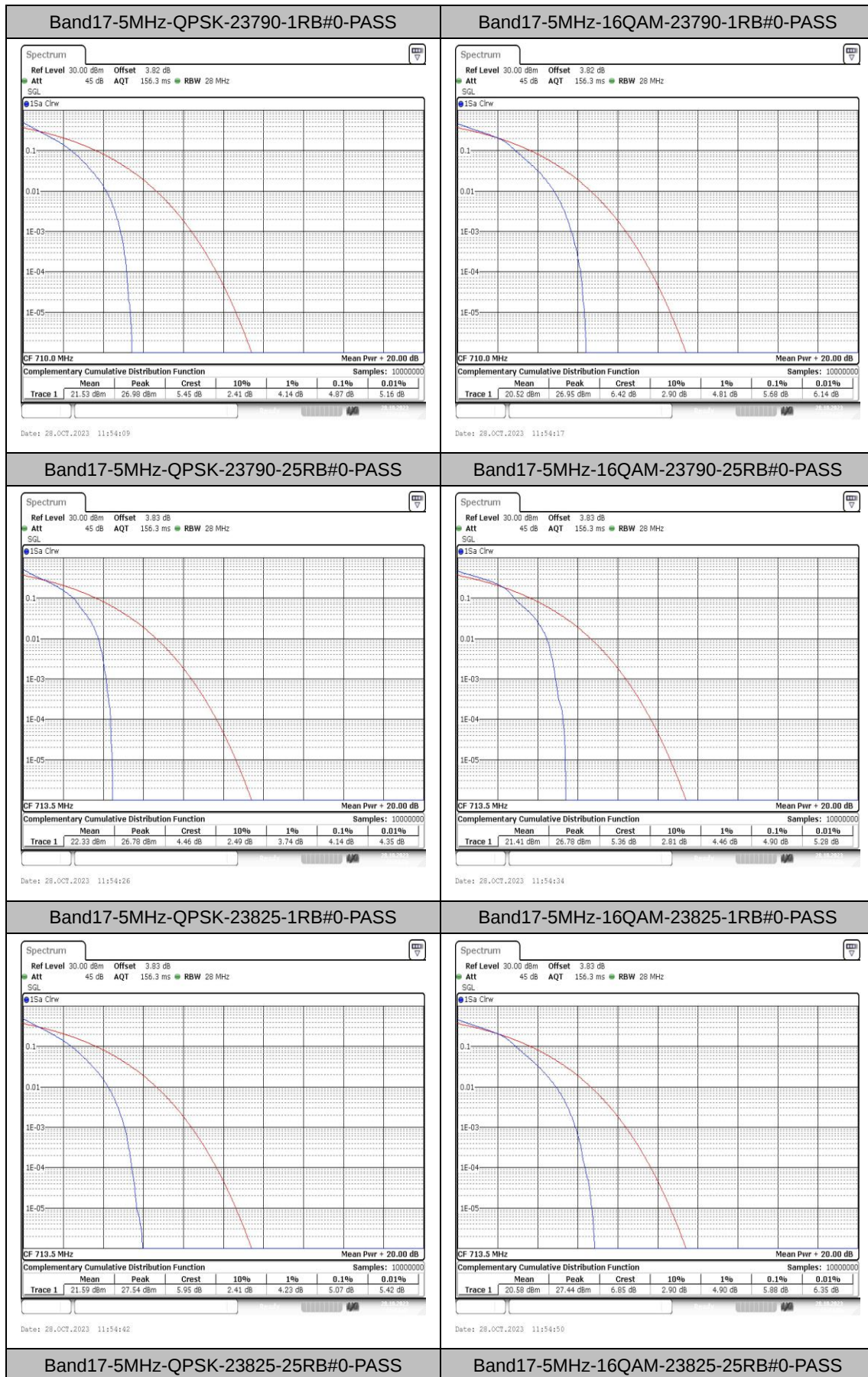
Band17	10MHz	QPSK	23800	25RB#12	23.08	PASS
Band17	10MHz	16QAM	23800	25RB#12	22.03	PASS
Band17	10MHz	QPSK	23800	25RB#25	23.00	PASS
Band17	10MHz	16QAM	23800	25RB#25	21.97	PASS
Band17	10MHz	QPSK	23800	50RB#0	23.01	PASS
Band17	10MHz	16QAM	23800	50RB#0	22.03	PASS

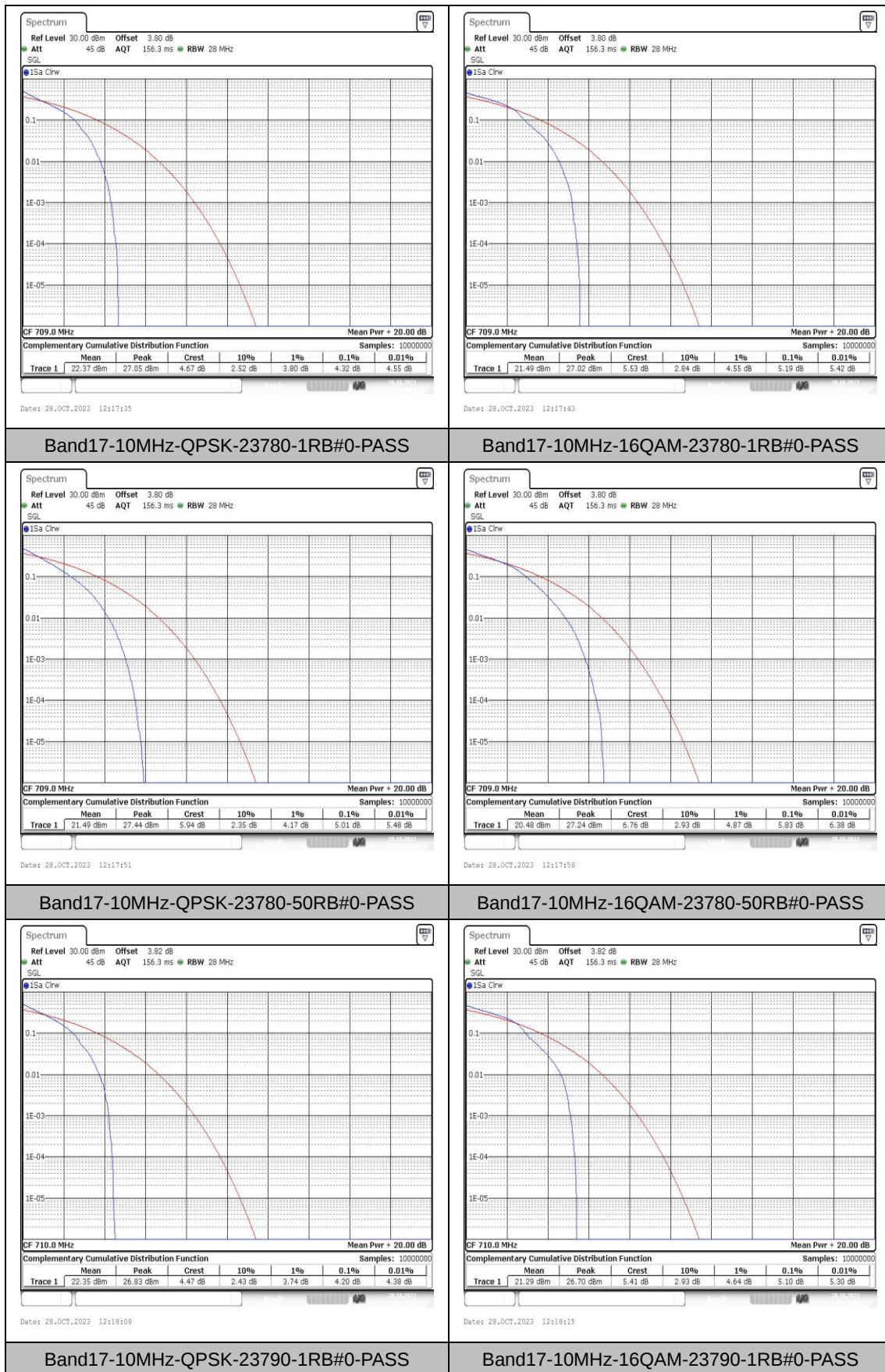
Appendix B: Peak-to-Average Ratio(CCDF)**Test Result**

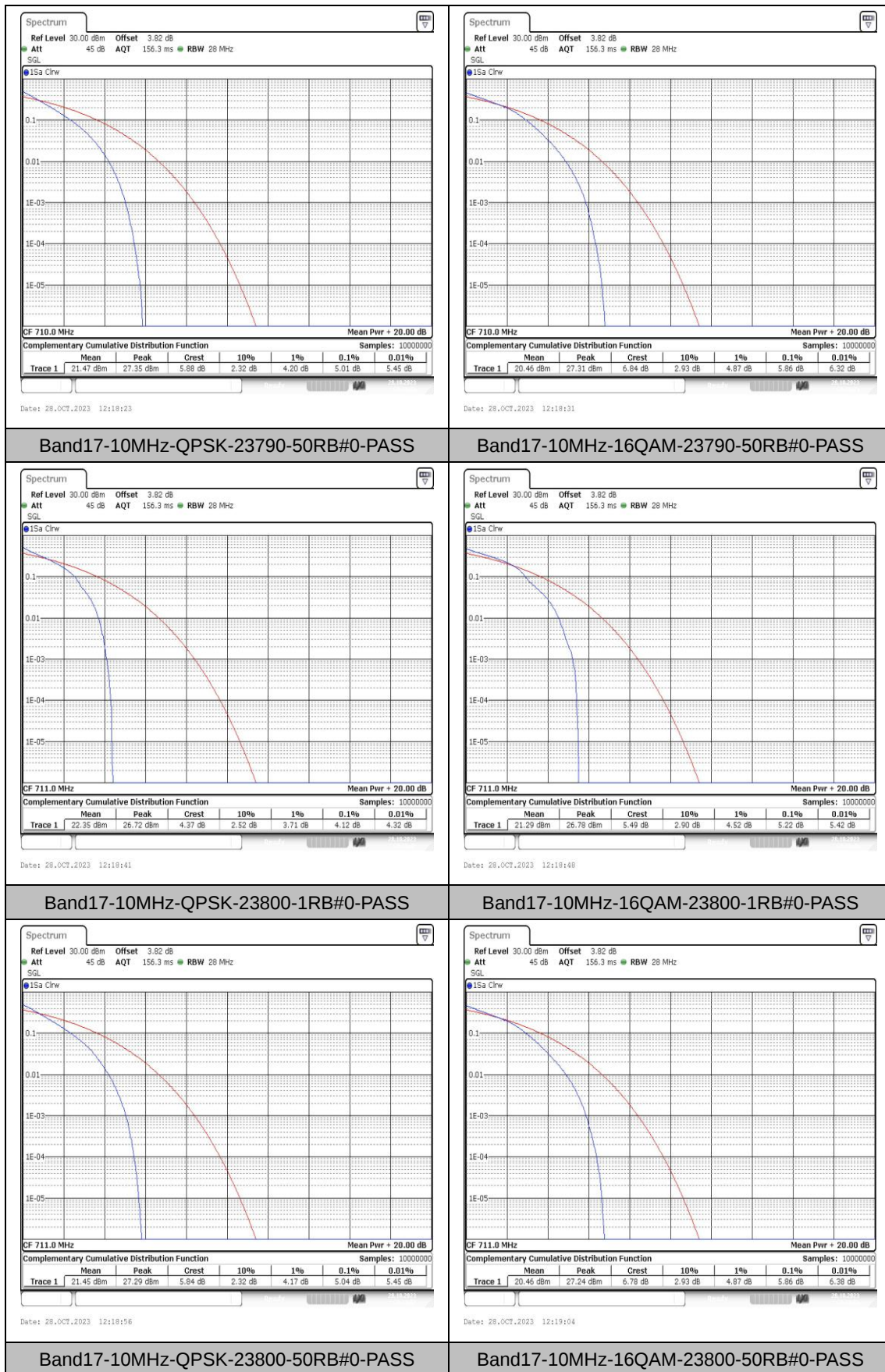
Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band17	5MHz	QPSK	23755	1RB#0	4.43	13	PASS
Band17	5MHz	16QAM	23755	1RB#0	5.16	13	PASS
Band17	5MHz	QPSK	23755	25RB#0	4.90	13	PASS
Band17	5MHz	16QAM	23755	25RB#0	5.74	13	PASS
Band17	5MHz	QPSK	23790	1RB#0	4.14	13	PASS
Band17	5MHz	16QAM	23790	1RB#0	4.87	13	PASS
Band17	5MHz	QPSK	23790	25RB#0	4.87	13	PASS
Band17	5MHz	16QAM	23790	25RB#0	5.68	13	PASS
Band17	5MHz	QPSK	23825	1RB#0	4.14	13	PASS
Band17	5MHz	16QAM	23825	1RB#0	4.90	13	PASS
Band17	5MHz	QPSK	23825	25RB#0	5.07	13	PASS
Band17	5MHz	16QAM	23825	25RB#0	5.88	13	PASS
Band17	10MHz	QPSK	23780	1RB#0	4.32	13	PASS
Band17	10MHz	16QAM	23780	1RB#0	5.19	13	PASS
Band17	10MHz	QPSK	23780	50RB#0	5.01	13	PASS
Band17	10MHz	16QAM	23780	50RB#0	5.83	13	PASS
Band17	10MHz	QPSK	23790	1RB#0	4.20	13	PASS
Band17	10MHz	16QAM	23790	1RB#0	5.10	13	PASS
Band17	10MHz	QPSK	23790	50RB#0	5.01	13	PASS
Band17	10MHz	16QAM	23790	50RB#0	5.86	13	PASS
Band17	10MHz	QPSK	23800	1RB#0	4.12	13	PASS
Band17	10MHz	16QAM	23800	1RB#0	5.22	13	PASS
Band17	10MHz	QPSK	23800	50RB#0	5.04	13	PASS
Band17	10MHz	16QAM	23800	50RB#0	5.86	13	PASS

Test Graphs







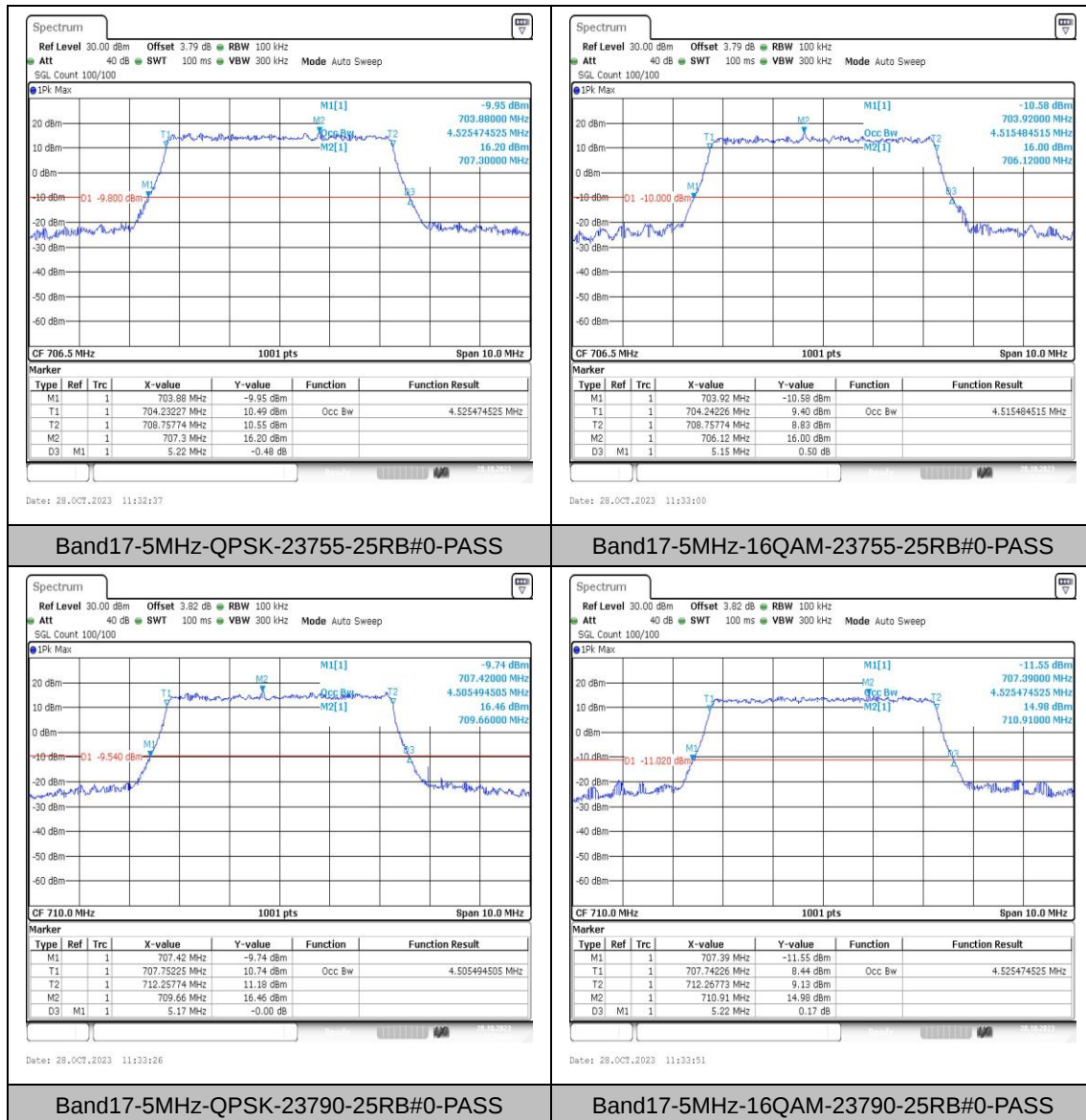


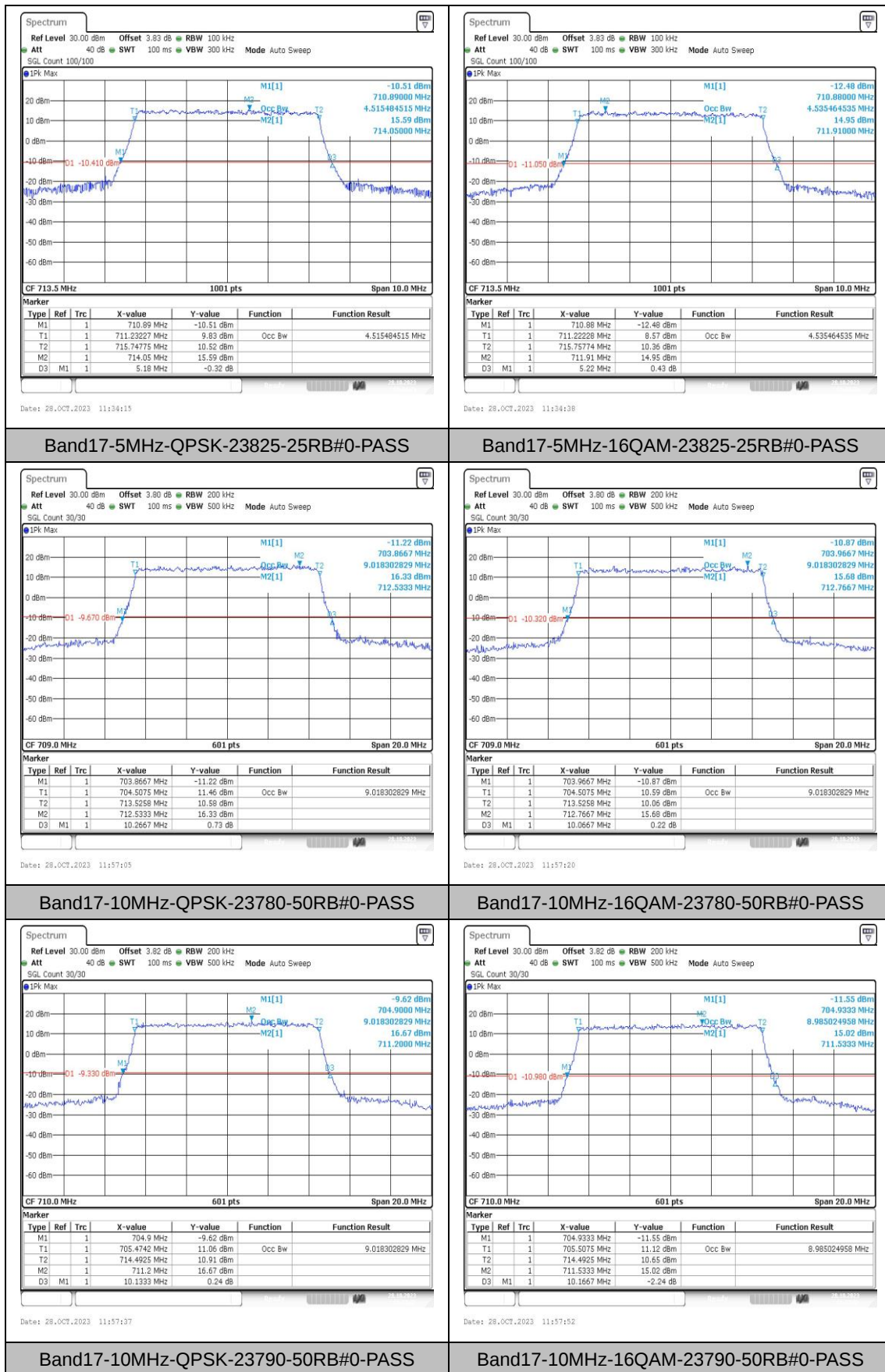
Appendix C: 26dB Bandwidth and Occupied Bandwidth

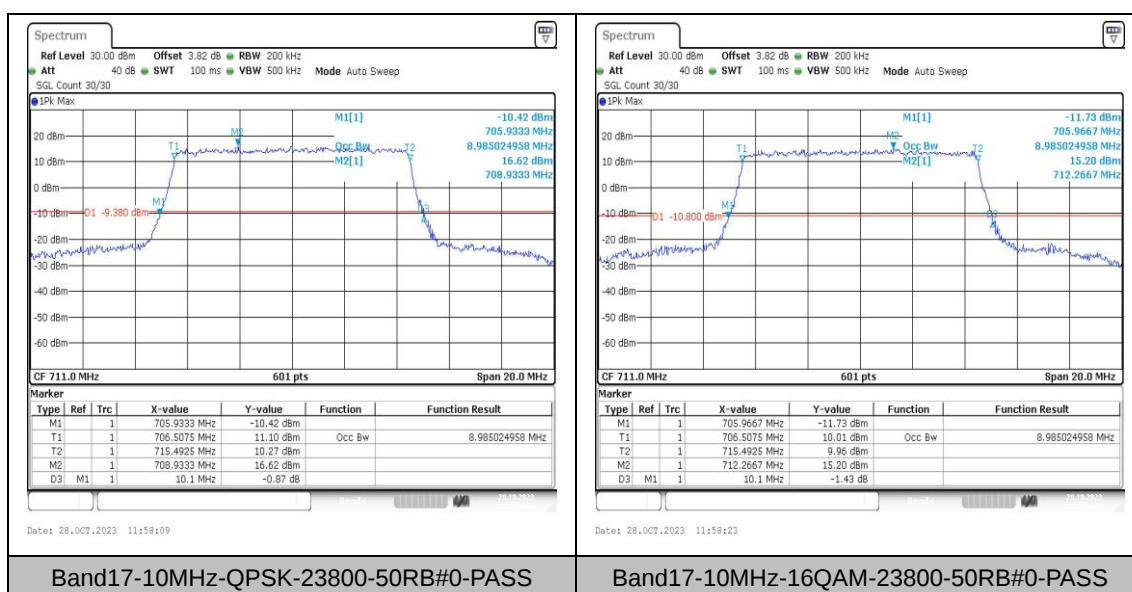
Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band17	5MHz	QPSK	23755	25RB#0	4.525	5.22	PASS
Band17	5MHz	16QAM	23755	25RB#0	4.515	5.15	PASS
Band17	5MHz	QPSK	23790	25RB#0	4.505	5.17	PASS
Band17	5MHz	16QAM	23790	25RB#0	4.525	5.22	PASS
Band17	5MHz	QPSK	23825	25RB#0	4.515	5.18	PASS
Band17	5MHz	16QAM	23825	25RB#0	4.535	5.22	PASS
Band17	10MHz	QPSK	23780	50RB#0	9.018	10.27	PASS
Band17	10MHz	16QAM	23780	50RB#0	9.018	10.07	PASS
Band17	10MHz	QPSK	23790	50RB#0	9.018	10.13	PASS
Band17	10MHz	16QAM	23790	50RB#0	8.985	10.17	PASS
Band17	10MHz	QPSK	23800	50RB#0	8.985	10.10	PASS
Band17	10MHz	16QAM	23800	50RB#0	8.985	10.10	PASS

Test Graphs







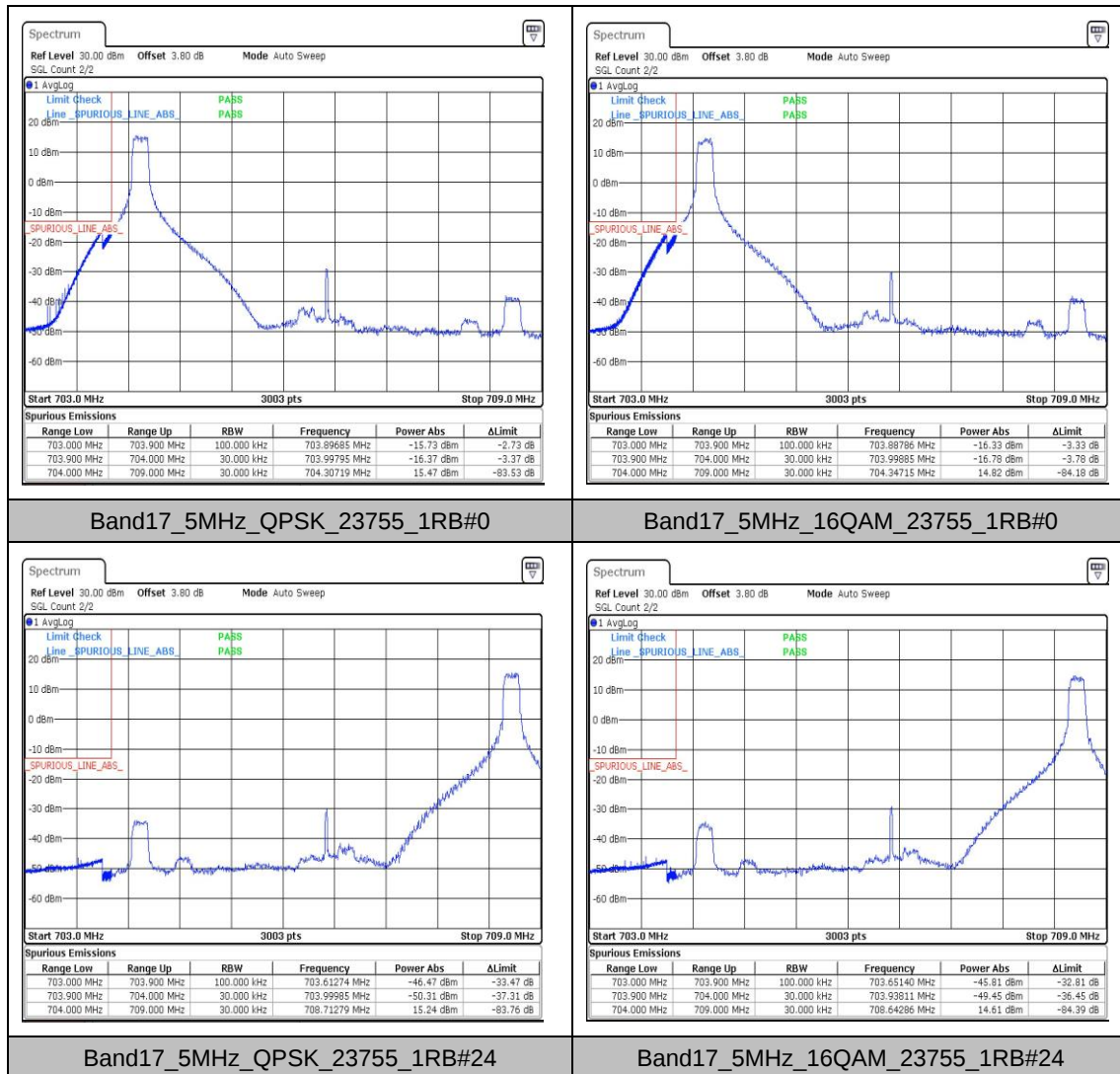
Appendix D: Band Edge

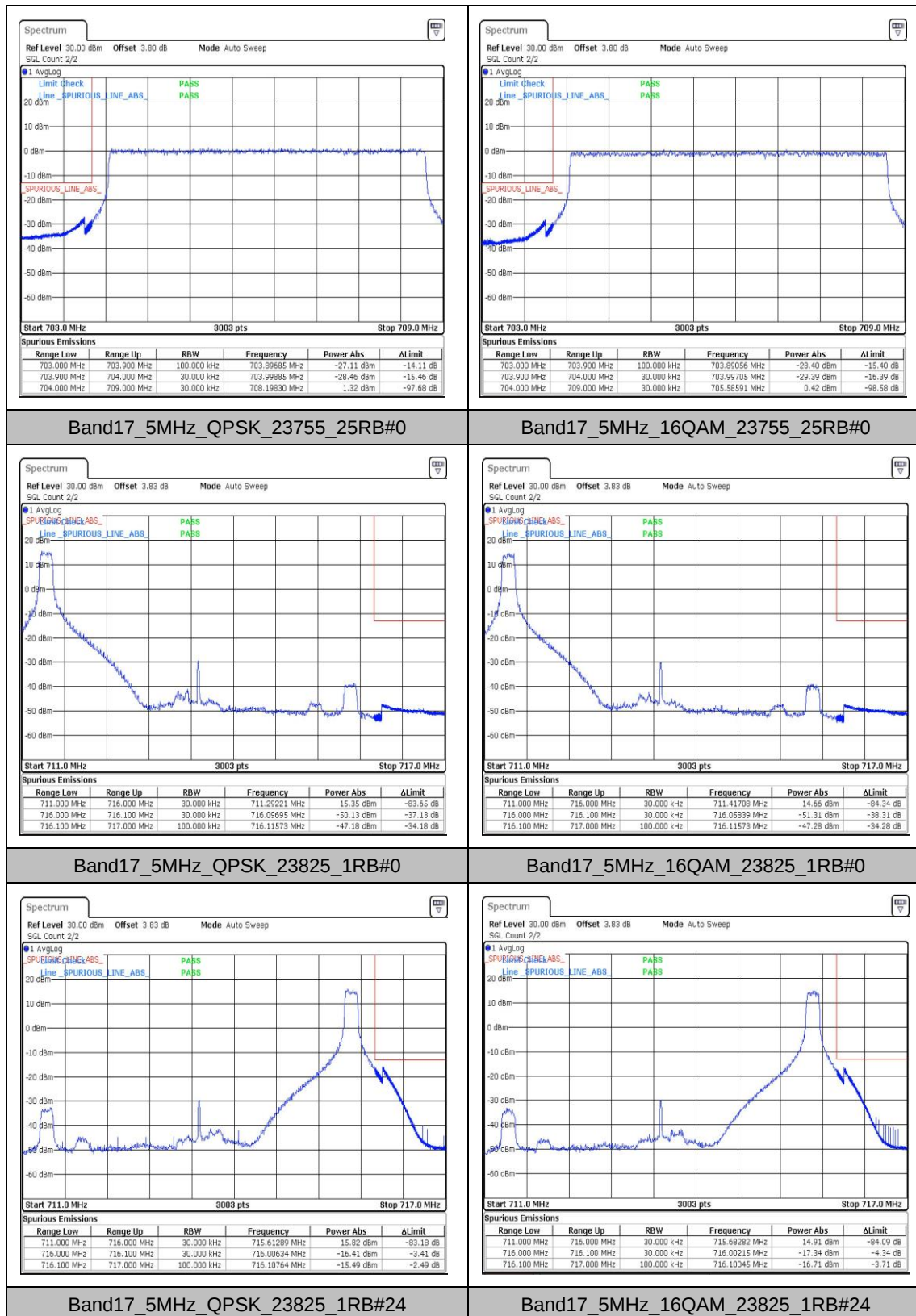
Test Result

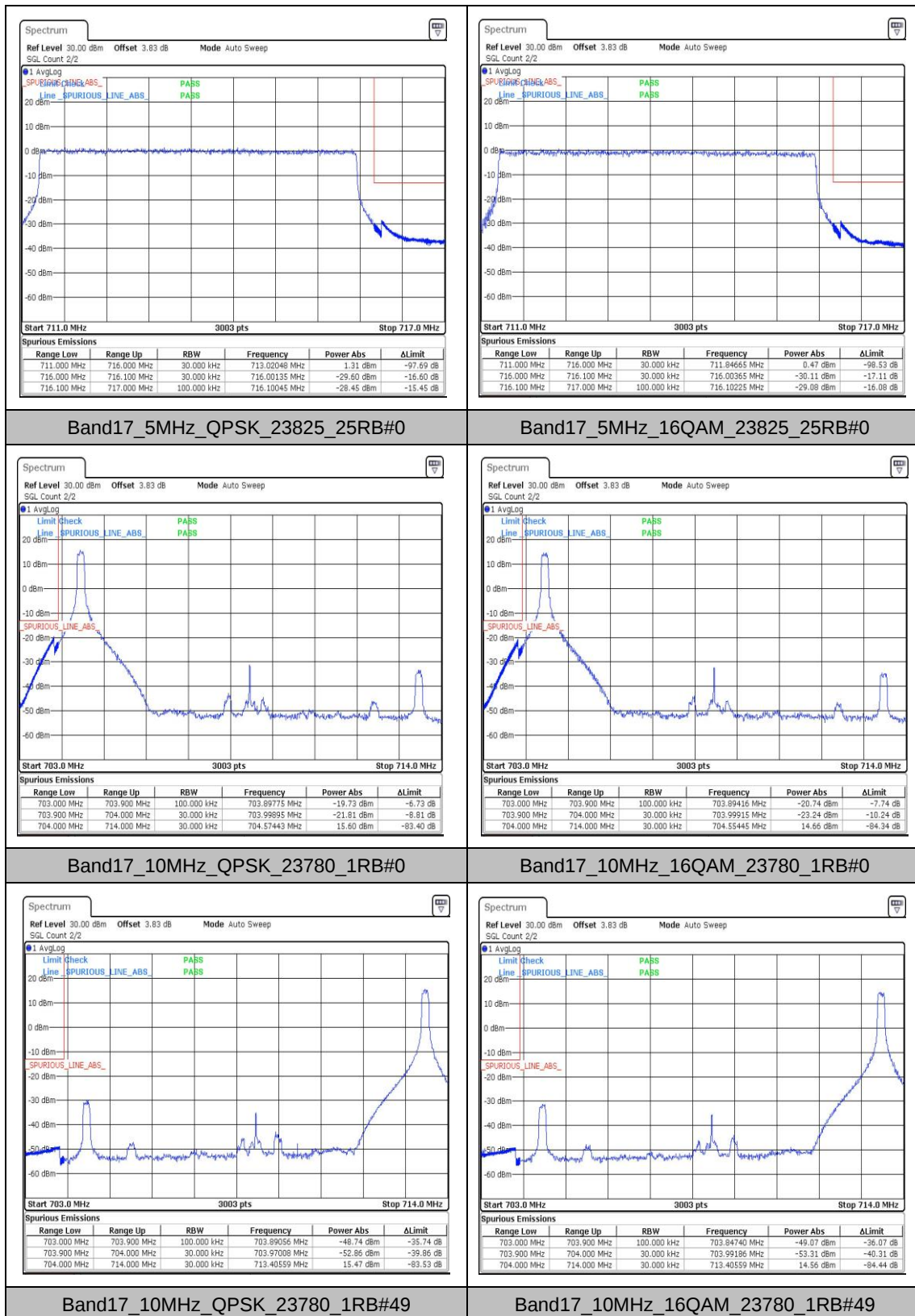
Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band17	5MHz	QPSK	23755	1RB#0	-15.73	PASS
Band17	5MHz	16QAM	23755	1RB#0	-16.33	PASS
Band17	5MHz	QPSK	23755	1RB#24	-46.47	PASS
Band17	5MHz	16QAM	23755	1RB#24	-45.81	PASS
Band17	5MHz	QPSK	23755	25RB#0	-27.11	PASS
Band17	5MHz	16QAM	23755	25RB#0	-28.40	PASS
Band17	5MHz	QPSK	23825	1RB#0	-47.18	PASS
Band17	5MHz	16QAM	23825	1RB#0	-47.28	PASS
Band17	5MHz	QPSK	23825	1RB#24	-15.49	PASS
Band17	5MHz	16QAM	23825	1RB#24	-16.71	PASS
Band17	5MHz	QPSK	23825	25RB#0	-28.45	PASS
Band17	5MHz	16QAM	23825	25RB#0	-29.08	PASS
Band17	10MHz	QPSK	23780	1RB#0	-19.73	PASS
Band17	10MHz	16QAM	23780	1RB#0	-20.74	PASS
Band17	10MHz	QPSK	23780	1RB#49	-48.74	PASS
Band17	10MHz	16QAM	23780	1RB#49	-49.07	PASS
Band17	10MHz	QPSK	23780	50RB#0	-31.68	PASS
Band17	10MHz	16QAM	23780	50RB#0	-34.19	PASS
Band17	10MHz	QPSK	23800	1RB#0	-48.79	PASS
Band17	10MHz	16QAM	23800	1RB#0	-48.84	PASS
Band17	10MHz	QPSK	23800	1RB#49	-19.10	PASS

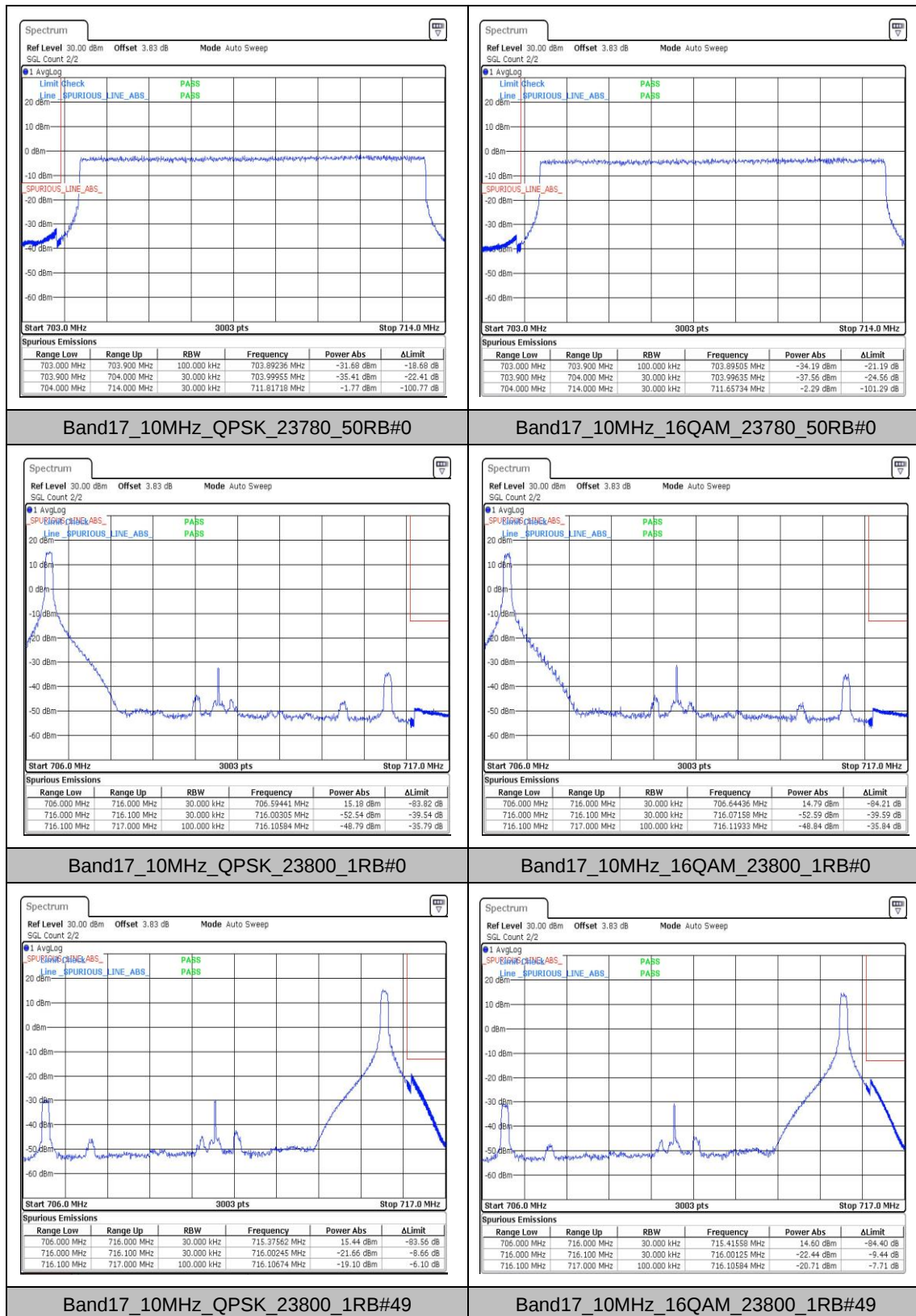
Band17	10MHz	16QAM	23800	1RB#49	-20.71	PASS
Band17	10MHz	QPSK	23800	50RB#0	-33.33	PASS
Band17	10MHz	16QAM	23800	50RB#0	-34.55	PASS

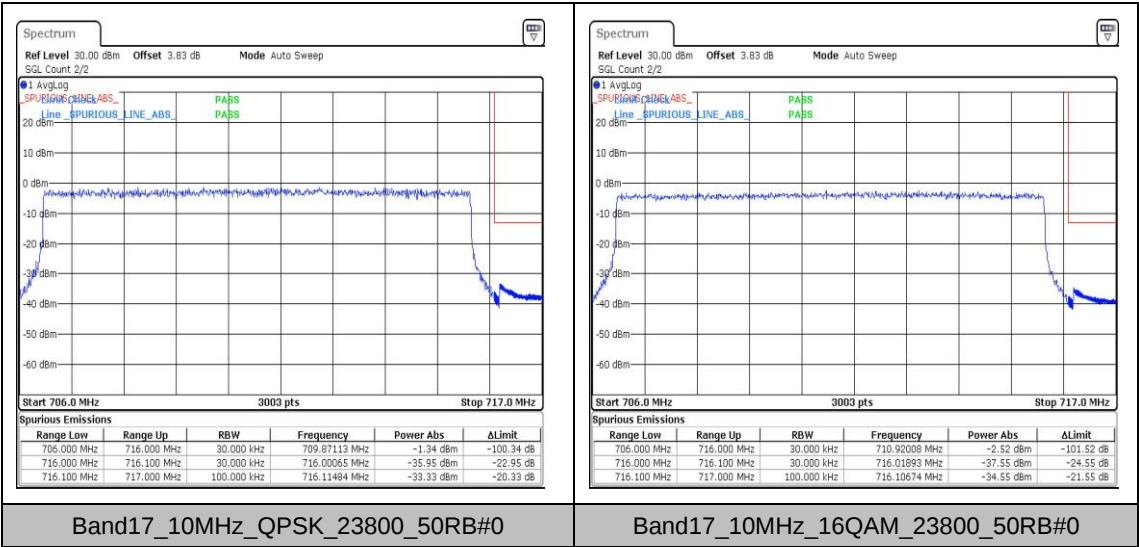
Test Graphs











Appendix E: Conducted Spurious Emission

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Frequency Range	Verdict
Band17	5MHz	QPSK	23755	1RB#0	0.009~0.15	PASS
Band17	5MHz	QPSK	23755	1RB#0	0.15~30	PASS
Band17	5MHz	QPSK	23755	1RB#0	30~1000	PASS
Band17	5MHz	QPSK	23755	1RB#0	1000~3000	PASS
Band17	5MHz	QPSK	23755	1RB#0	3000~10000	PASS
Band17	5MHz	16QAM	23755	1RB#0	0.009~0.15	PASS
Band17	5MHz	16QAM	23755	1RB#0	0.15~30	PASS
Band17	5MHz	16QAM	23755	1RB#0	30~1000	PASS
Band17	5MHz	16QAM	23755	1RB#0	1000~3000	PASS
Band17	5MHz	16QAM	23755	1RB#0	3000~10000	PASS
Band17	5MHz	QPSK	23790	1RB#0	0.009~0.15	PASS
Band17	5MHz	QPSK	23790	1RB#0	0.15~30	PASS
Band17	5MHz	QPSK	23790	1RB#0	30~1000	PASS
Band17	5MHz	QPSK	23790	1RB#0	1000~3000	PASS
Band17	5MHz	QPSK	23790	1RB#0	3000~10000	PASS
Band17	5MHz	16QAM	23790	1RB#0	0.009~0.15	PASS
Band17	5MHz	16QAM	23790	1RB#0	0.15~30	PASS
Band17	5MHz	16QAM	23790	1RB#0	30~1000	PASS
Band17	5MHz	16QAM	23790	1RB#0	1000~3000	PASS
Band17	5MHz	16QAM	23790	1RB#0	3000~10000	PASS
Band17	5MHz	QPSK	23825	1RB#0	0.009~0.15	PASS
Band17	5MHz	QPSK	23825	1RB#0	0.15~30	PASS
Band17	5MHz	QPSK	23825	1RB#0	30~1000	PASS
Band17	5MHz	QPSK	23825	1RB#0	1000~3000	PASS
Band17	5MHz	QPSK	23825	1RB#0	3000~10000	PASS
Band17	5MHz	16QAM	23825	1RB#0	0.009~0.15	PASS
Band17	5MHz	16QAM	23825	1RB#0	0.15~30	PASS
Band17	5MHz	16QAM	23825	1RB#0	30~1000	PASS
Band17	5MHz	16QAM	23825	1RB#0	1000~3000	PASS
Band17	5MHz	16QAM	23825	1RB#0	3000~10000	PASS
Band17	10MHz	QPSK	23780	1RB#0	0.009~0.15	PASS
Band17	10MHz	QPSK	23780	1RB#0	0.15~30	PASS
Band17	10MHz	QPSK	23780	1RB#0	30~1000	PASS
Band17	10MHz	QPSK	23780	1RB#0	1000~3000	PASS
Band17	10MHz	QPSK	23780	1RB#0	3000~10000	PASS

Band17	10MHz	16QAM	23780	1RB#0	0.009~0.15	PASS
Band17	10MHz	16QAM	23780	1RB#0	0.15~30	PASS
Band17	10MHz	16QAM	23780	1RB#0	30~1000	PASS
Band17	10MHz	16QAM	23780	1RB#0	1000~3000	PASS
Band17	10MHz	16QAM	23780	1RB#0	3000~10000	PASS
Band17	10MHz	QPSK	23790	1RB#0	0.009~0.15	PASS
Band17	10MHz	QPSK	23790	1RB#0	0.15~30	PASS
Band17	10MHz	QPSK	23790	1RB#0	30~1000	PASS
Band17	10MHz	QPSK	23790	1RB#0	1000~3000	PASS
Band17	10MHz	QPSK	23790	1RB#0	3000~10000	PASS
Band17	10MHz	16QAM	23790	1RB#0	0.009~0.15	PASS
Band17	10MHz	16QAM	23790	1RB#0	0.15~30	PASS
Band17	10MHz	16QAM	23790	1RB#0	30~1000	PASS
Band17	10MHz	16QAM	23790	1RB#0	1000~3000	PASS
Band17	10MHz	16QAM	23790	1RB#0	3000~10000	PASS
Band17	10MHz	QPSK	23800	1RB#0	0.009~0.15	PASS
Band17	10MHz	QPSK	23800	1RB#0	0.15~30	PASS
Band17	10MHz	QPSK	23800	1RB#0	30~1000	PASS
Band17	10MHz	QPSK	23800	1RB#0	1000~3000	PASS
Band17	10MHz	QPSK	23800	1RB#0	3000~10000	PASS
Band17	10MHz	16QAM	23800	1RB#0	0.009~0.15	PASS
Band17	10MHz	16QAM	23800	1RB#0	0.15~30	PASS
Band17	10MHz	16QAM	23800	1RB#0	30~1000	PASS
Band17	10MHz	16QAM	23800	1RB#0	1000~3000	PASS
Band17	10MHz	16QAM	23800	1RB#0	3000~10000	PASS

Test Graphs

