

Appendix for LTE BAND 12

Product Name: Mobile Phone

Model No: IDOL

Appendix A: Average Power Output Data

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band12	1.4MHz	QPSK	23017	1RB#0	22.08	PASS
Band12	1.4MHz	16QAM	23017	1RB#0	21.73	PASS
Band12	1.4MHz	QPSK	23017	1RB#2	22.06	PASS
Band12	1.4MHz	16QAM	23017	1RB#2	21.74	PASS
Band12	1.4MHz	QPSK	23017	1RB#5	22.02	PASS
Band12	1.4MHz	16QAM	23017	1RB#5	21.71	PASS
Band12	1.4MHz	QPSK	23017	3RB#0	22.14	PASS
Band12	1.4MHz	16QAM	23017	3RB#0	21.21	PASS
Band12	1.4MHz	QPSK	23017	3RB#1	22.14	PASS
Band12	1.4MHz	16QAM	23017	3RB#1	21.08	PASS
Band12	1.4MHz	QPSK	23017	3RB#3	22.18	PASS
Band12	1.4MHz	16QAM	23017	3RB#3	21.12	PASS
Band12	1.4MHz	QPSK	23017	6RB#0	21.72	PASS
Band12	1.4MHz	16QAM	23017	6RB#0	20.65	PASS
Band12	1.4MHz	QPSK	23095	1RB#0	21.98	PASS
Band12	1.4MHz	16QAM	23095	1RB#0	21.73	PASS
Band12	1.4MHz	QPSK	23095	1RB#2	22.13	PASS
Band12	1.4MHz	16QAM	23095	1RB#2	21.69	PASS
Band12	1.4MHz	QPSK	23095	1RB#5	22.04	PASS
Band12	1.4MHz	16QAM	23095	1RB#5	21.68	PASS
Band12	1.4MHz	QPSK	23095	3RB#0	22.14	PASS
Band12	1.4MHz	16QAM	23095	3RB#0	21.06	PASS
Band12	1.4MHz	QPSK	23095	3RB#1	22.14	PASS
Band12	1.4MHz	16QAM	23095	3RB#1	21.03	PASS
Band12	1.4MHz	QPSK	23095	3RB#3	22.16	PASS
Band12	1.4MHz	16QAM	23095	3RB#3	21.05	PASS
Band12	1.4MHz	QPSK	23095	6RB#0	21.59	PASS
Band12	1.4MHz	16QAM	23095	6RB#0	21.11	PASS
Band12	1.4MHz	QPSK	23173	1RB#0	22.19	PASS
Band12	1.4MHz	16QAM	23173	1RB#0	21.00	PASS
Band12	1.4MHz	QPSK	23173	1RB#2	22.15	PASS
Band12	1.4MHz	16QAM	23173	1RB#2	21.34	PASS
Band12	1.4MHz	QPSK	23173	1RB#5	22.10	PASS
Band12	1.4MHz	16QAM	23173	1RB#5	21.33	PASS
Band12	1.4MHz	QPSK	23173	3RB#0	22.24	PASS
Band12	1.4MHz	16QAM	23173	3RB#0	21.32	PASS

Band12	1.4MHz	QPSK	23173	3RB#1	22.31	PASS
Band12	1.4MHz	16QAM	23173	3RB#1	21.32	PASS
Band12	1.4MHz	QPSK	23173	3RB#3	22.22	PASS
Band12	1.4MHz	16QAM	23173	3RB#3	21.65	PASS
Band12	1.4MHz	QPSK	23173	6RB#0	21.99	PASS
Band12	1.4MHz	16QAM	23173	6RB#0	21.00	PASS
Band12	3MHz	QPSK	23025	1RB#0	22.03	PASS
Band12	3MHz	16QAM	23025	1RB#0	21.78	PASS
Band12	3MHz	QPSK	23025	1RB#8	22.01	PASS
Band12	3MHz	16QAM	23025	1RB#8	21.71	PASS
Band12	3MHz	QPSK	23025	1RB#14	21.97	PASS
Band12	3MHz	16QAM	23025	1RB#14	21.57	PASS
Band12	3MHz	QPSK	23025	8RB#0	21.68	PASS
Band12	3MHz	16QAM	23025	8RB#0	20.91	PASS
Band12	3MHz	QPSK	23025	8RB#4	21.69	PASS
Band12	3MHz	16QAM	23025	8RB#4	20.85	PASS
Band12	3MHz	QPSK	23025	8RB#7	21.68	PASS
Band12	3MHz	16QAM	23025	8RB#7	20.67	PASS
Band12	3MHz	QPSK	23025	15RB#0	21.76	PASS
Band12	3MHz	16QAM	23025	15RB#0	20.63	PASS
Band12	3MHz	QPSK	23095	1RB#0	22.15	PASS
Band12	3MHz	16QAM	23095	1RB#0	20.99	PASS
Band12	3MHz	QPSK	23095	1RB#8	22.21	PASS
Band12	3MHz	16QAM	23095	1RB#8	20.88	PASS
Band12	3MHz	QPSK	23095	1RB#14	22.14	PASS
Band12	3MHz	16QAM	23095	1RB#14	20.87	PASS
Band12	3MHz	QPSK	23095	8RB#0	21.61	PASS
Band12	3MHz	16QAM	23095	8RB#0	20.75	PASS
Band12	3MHz	QPSK	23095	8RB#4	21.60	PASS
Band12	3MHz	16QAM	23095	8RB#4	20.84	PASS
Band12	3MHz	QPSK	23095	8RB#7	21.61	PASS
Band12	3MHz	16QAM	23095	8RB#7	21.21	PASS
Band12	3MHz	QPSK	23095	15RB#0	21.62	PASS
Band12	3MHz	16QAM	23095	15RB#0	20.88	PASS
Band12	3MHz	QPSK	23165	1RB#0	22.20	PASS
Band12	3MHz	16QAM	23165	1RB#0	21.74	PASS
Band12	3MHz	QPSK	23165	1RB#8	22.17	PASS
Band12	3MHz	16QAM	23165	1RB#8	21.73	PASS
Band12	3MHz	QPSK	23165	1RB#14	22.22	PASS
Band12	3MHz	16QAM	23165	1RB#14	22.15	PASS
Band12	3MHz	QPSK	23165	8RB#0	21.80	PASS
Band12	3MHz	16QAM	23165	8RB#0	20.71	PASS

Band12	3MHz	QPSK	23165	8RB#4	21.66	PASS
Band12	3MHz	16QAM	23165	8RB#4	20.73	PASS
Band12	3MHz	QPSK	23165	8RB#7	21.92	PASS
Band12	3MHz	16QAM	23165	8RB#7	21.01	PASS
Band12	3MHz	QPSK	23165	15RB#0	21.57	PASS
Band12	3MHz	16QAM	23165	15RB#0	20.59	PASS
Band12	5MHz	QPSK	23035	1RB#0	22.33	PASS
Band12	5MHz	16QAM	23035	1RB#0	21.14	PASS
Band12	5MHz	QPSK	23035	1RB#12	22.26	PASS
Band12	5MHz	16QAM	23035	1RB#12	21.22	PASS
Band12	5MHz	QPSK	23035	1RB#24	22.25	PASS
Band12	5MHz	16QAM	23035	1RB#24	21.16	PASS
Band12	5MHz	QPSK	23035	12RB#0	21.82	PASS
Band12	5MHz	16QAM	23035	12RB#0	20.66	PASS
Band12	5MHz	QPSK	23035	12RB#6	21.91	PASS
Band12	5MHz	16QAM	23035	12RB#6	20.78	PASS
Band12	5MHz	QPSK	23035	12RB#13	21.72	PASS
Band12	5MHz	16QAM	23035	12RB#13	20.72	PASS
Band12	5MHz	QPSK	23035	25RB#0	21.69	PASS
Band12	5MHz	16QAM	23035	25RB#0	20.82	PASS
Band12	5MHz	QPSK	23095	1RB#0	22.20	PASS
Band12	5MHz	16QAM	23095	1RB#0	21.77	PASS
Band12	5MHz	QPSK	23095	1RB#12	22.04	PASS
Band12	5MHz	16QAM	23095	1RB#12	21.73	PASS
Band12	5MHz	QPSK	23095	1RB#24	22.21	PASS
Band12	5MHz	16QAM	23095	1RB#24	21.79	PASS
Band12	5MHz	QPSK	23095	12RB#0	21.70	PASS
Band12	5MHz	16QAM	23095	12RB#0	20.71	PASS
Band12	5MHz	QPSK	23095	12RB#6	21.71	PASS
Band12	5MHz	16QAM	23095	12RB#6	20.71	PASS
Band12	5MHz	QPSK	23095	12RB#13	21.63	PASS
Band12	5MHz	16QAM	23095	12RB#13	21.11	PASS
Band12	5MHz	QPSK	23095	25RB#0	21.57	PASS
Band12	5MHz	16QAM	23095	25RB#0	21.07	PASS
Band12	5MHz	QPSK	23155	1RB#0	22.10	PASS
Band12	5MHz	16QAM	23155	1RB#0	21.60	PASS
Band12	5MHz	QPSK	23155	1RB#12	22.18	PASS
Band12	5MHz	16QAM	23155	1RB#12	21.49	PASS
Band12	5MHz	QPSK	23155	1RB#24	22.20	PASS
Band12	5MHz	16QAM	23155	1RB#24	21.61	PASS
Band12	5MHz	QPSK	23155	12RB#0	22.04	PASS
Band12	5MHz	16QAM	23155	12RB#0	20.89	PASS

Band12	5MHz	QPSK	23155	12RB#6	22.01	PASS
Band12	5MHz	16QAM	23155	12RB#6	20.96	PASS
Band12	5MHz	QPSK	23155	12RB#13	21.82	PASS
Band12	5MHz	16QAM	23155	12RB#13	20.72	PASS
Band12	5MHz	QPSK	23155	25RB#0	21.75	PASS
Band12	5MHz	16QAM	23155	25RB#0	20.84	PASS
Band12	10MHz	QPSK	23060	1RB#0	22.21	PASS
Band12	10MHz	16QAM	23060	1RB#0	21.72	PASS
Band12	10MHz	QPSK	23060	1RB#24	22.10	PASS
Band12	10MHz	16QAM	23060	1RB#24	21.73	PASS
Band12	10MHz	QPSK	23060	1RB#49	22.01	PASS
Band12	10MHz	16QAM	23060	1RB#49	21.61	PASS
Band12	10MHz	QPSK	23060	25RB#0	21.77	PASS
Band12	10MHz	16QAM	23060	25RB#0	20.47	PASS
Band12	10MHz	QPSK	23060	25RB#12	21.68	PASS
Band12	10MHz	16QAM	23060	25RB#12	20.47	PASS
Band12	10MHz	QPSK	23060	25RB#25	21.64	PASS
Band12	10MHz	16QAM	23060	25RB#25	20.76	PASS
Band12	10MHz	QPSK	23060	50RB#0	21.61	PASS
Band12	10MHz	16QAM	23060	50RB#0	21.03	PASS
Band12	10MHz	QPSK	23095	1RB#0	22.16	PASS
Band12	10MHz	16QAM	23095	1RB#0	21.39	PASS
Band12	10MHz	QPSK	23095	1RB#24	22.12	PASS
Band12	10MHz	16QAM	23095	1RB#24	21.39	PASS
Band12	10MHz	QPSK	23095	1RB#49	22.10	PASS
Band12	10MHz	16QAM	23095	1RB#49	21.77	PASS
Band12	10MHz	QPSK	23095	25RB#0	21.68	PASS
Band12	10MHz	16QAM	23095	25RB#0	20.76	PASS
Band12	10MHz	QPSK	23095	25RB#12	21.70	PASS
Band12	10MHz	16QAM	23095	25RB#12	20.79	PASS
Band12	10MHz	QPSK	23095	25RB#25	21.66	PASS
Band12	10MHz	16QAM	23095	25RB#25	21.20	PASS
Band12	10MHz	QPSK	23095	50RB#0	21.60	PASS
Band12	10MHz	16QAM	23095	50RB#0	21.09	PASS
Band12	10MHz	QPSK	23130	1RB#0	22.15	PASS
Band12	10MHz	16QAM	23130	1RB#0	22.12	PASS
Band12	10MHz	QPSK	23130	1RB#24	22.05	PASS
Band12	10MHz	16QAM	23130	1RB#24	22.06	PASS
Band12	10MHz	QPSK	23130	1RB#49	22.15	PASS
Band12	10MHz	16QAM	23130	1RB#49	22.44	PASS
Band12	10MHz	QPSK	23130	25RB#0	21.54	PASS
Band12	10MHz	16QAM	23130	25RB#0	21.12	PASS

Band12	10MHz	QPSK	23130	25RB#12	21.60	PASS
Band12	10MHz	16QAM	23130	25RB#12	21.14	PASS
Band12	10MHz	QPSK	23130	25RB#25	21.81	PASS
Band12	10MHz	16QAM	23130	25RB#25	20.86	PASS
Band12	10MHz	QPSK	23130	50RB#0	21.66	PASS
Band12	10MHz	16QAM	23130	50RB#0	21.06	PASS

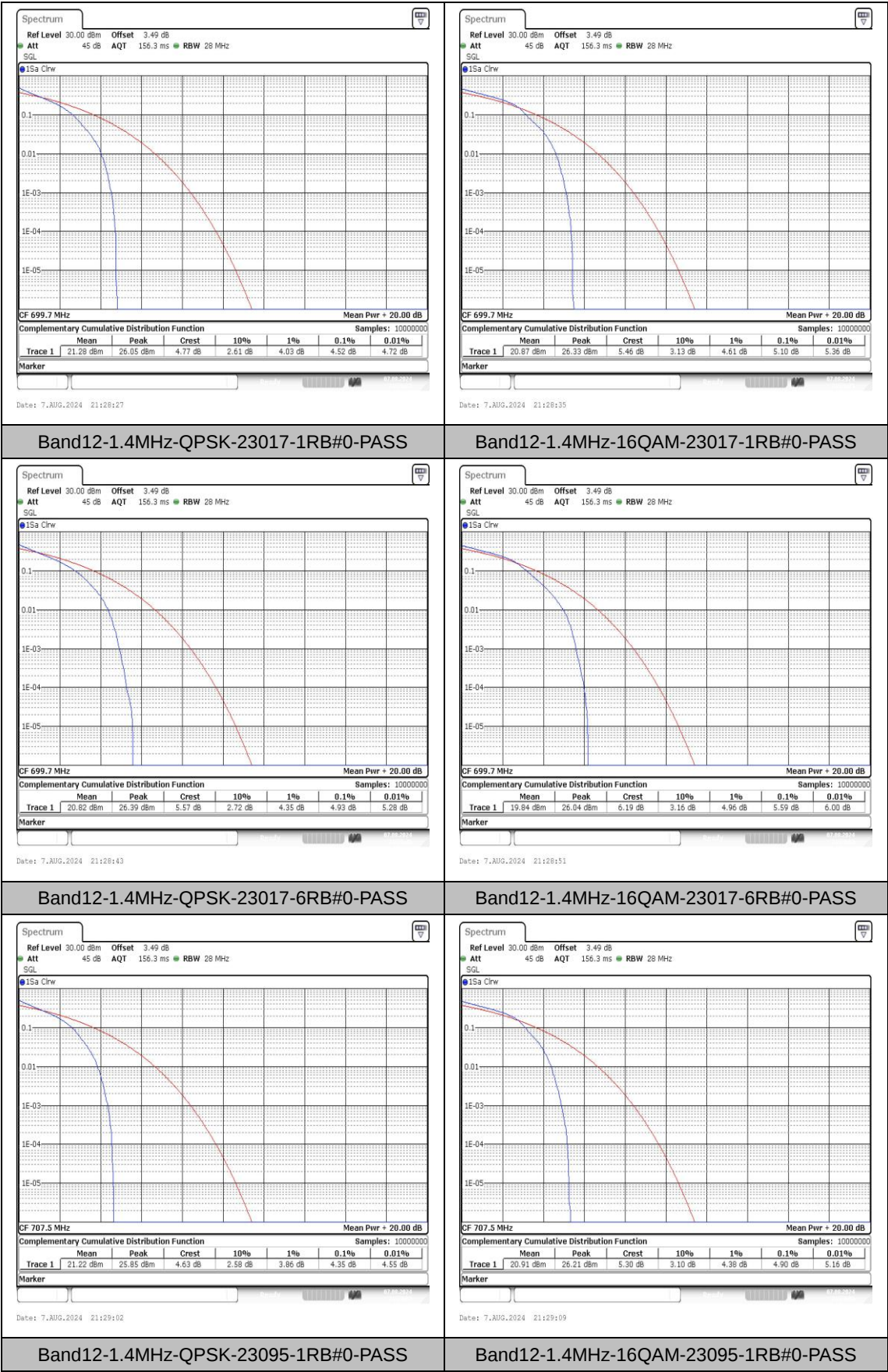
Appendix B: Peak-to-Average Ratio(CCDF)

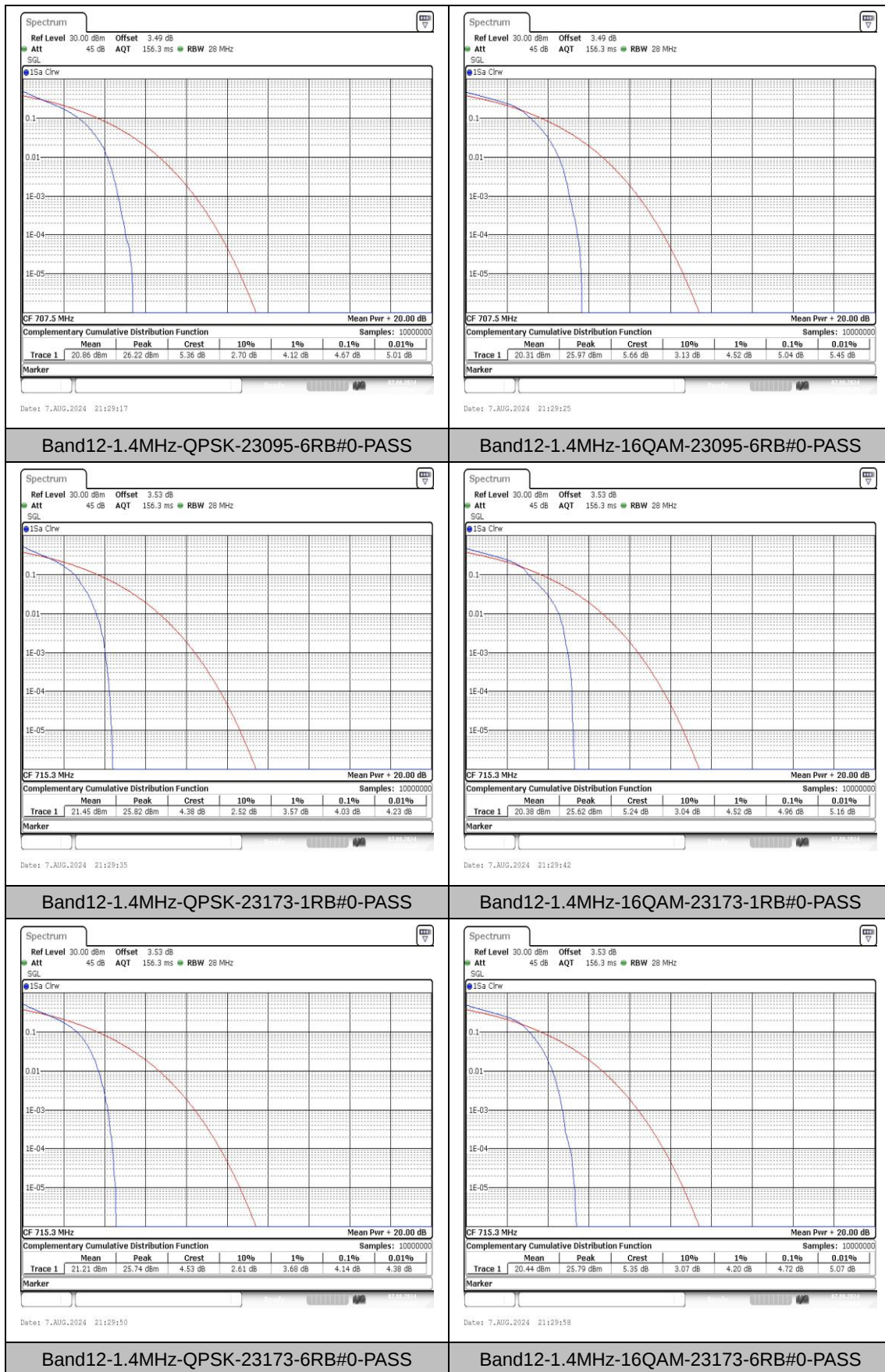
Test Result

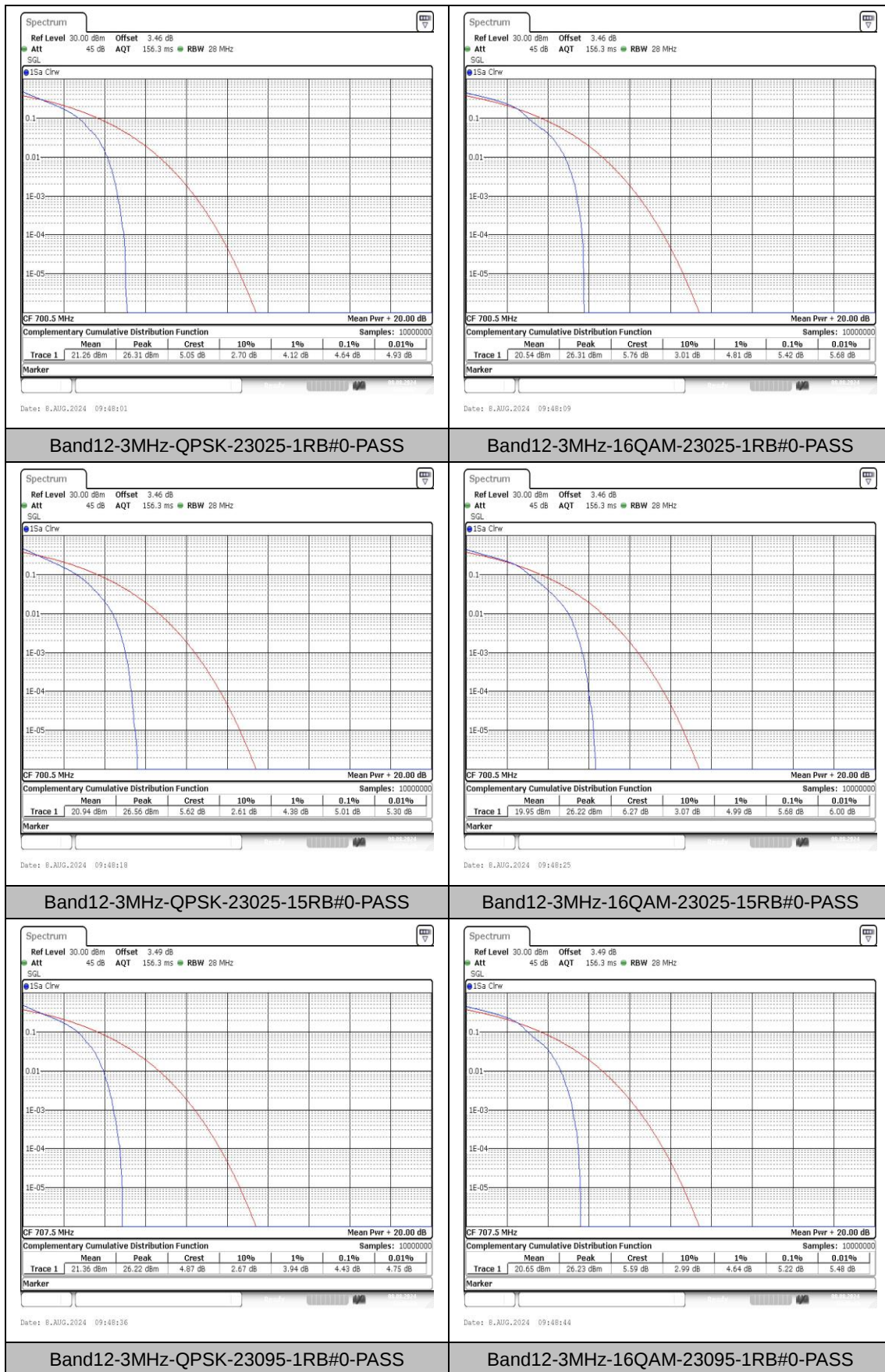
Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band12	1.4MHz	QPSK	23017	1RB#0	4.52	13	PASS
Band12	1.4MHz	16QAM	23017	1RB#0	5.10	13	PASS
Band12	1.4MHz	QPSK	23017	6RB#0	4.93	13	PASS
Band12	1.4MHz	16QAM	23017	6RB#0	5.59	13	PASS
Band12	1.4MHz	QPSK	23095	1RB#0	4.35	13	PASS
Band12	1.4MHz	16QAM	23095	1RB#0	4.90	13	PASS
Band12	1.4MHz	QPSK	23095	6RB#0	4.67	13	PASS
Band12	1.4MHz	16QAM	23095	6RB#0	5.04	13	PASS
Band12	1.4MHz	QPSK	23173	1RB#0	4.03	13	PASS
Band12	1.4MHz	16QAM	23173	1RB#0	4.96	13	PASS
Band12	1.4MHz	QPSK	23173	6RB#0	4.14	13	PASS
Band12	1.4MHz	16QAM	23173	6RB#0	4.72	13	PASS
Band12	3MHz	QPSK	23025	1RB#0	4.64	13	PASS
Band12	3MHz	16QAM	23025	1RB#0	5.42	13	PASS
Band12	3MHz	QPSK	23025	15RB#0	5.01	13	PASS
Band12	3MHz	16QAM	23025	15RB#0	5.68	13	PASS
Band12	3MHz	QPSK	23095	1RB#0	4.43	13	PASS
Band12	3MHz	16QAM	23095	1RB#0	5.22	13	PASS
Band12	3MHz	QPSK	23095	15RB#0	4.72	13	PASS
Band12	3MHz	16QAM	23095	15RB#0	5.10	13	PASS
Band12	3MHz	QPSK	23165	1RB#0	4.61	13	PASS
Band12	3MHz	16QAM	23165	1RB#0	5.51	13	PASS
Band12	3MHz	QPSK	23165	15RB#0	4.67	13	PASS
Band12	3MHz	16QAM	23165	15RB#0	5.39	13	PASS
Band12	5MHz	QPSK	23035	1RB#0	4.55	13	PASS
Band12	5MHz	16QAM	23035	1RB#0	5.28	13	PASS
Band12	5MHz	QPSK	23035	25RB#0	5.07	13	PASS
Band12	5MHz	16QAM	23035	25RB#0	5.71	13	PASS
Band12	5MHz	QPSK	23095	1RB#0	4.67	13	PASS
Band12	5MHz	16QAM	23095	1RB#0	5.39	13	PASS
Band12	5MHz	QPSK	23095	25RB#0	4.75	13	PASS
Band12	5MHz	16QAM	23095	25RB#0	5.04	13	PASS
Band12	5MHz	QPSK	23155	1RB#0	4.64	13	PASS
Band12	5MHz	16QAM	23155	1RB#0	4.90	13	PASS
Band12	5MHz	QPSK	23155	25RB#0	4.87	13	PASS
Band12	5MHz	16QAM	23155	25RB#0	5.48	13	PASS
Band12	10MHz	QPSK	23060	1RB#0	4.52	13	PASS

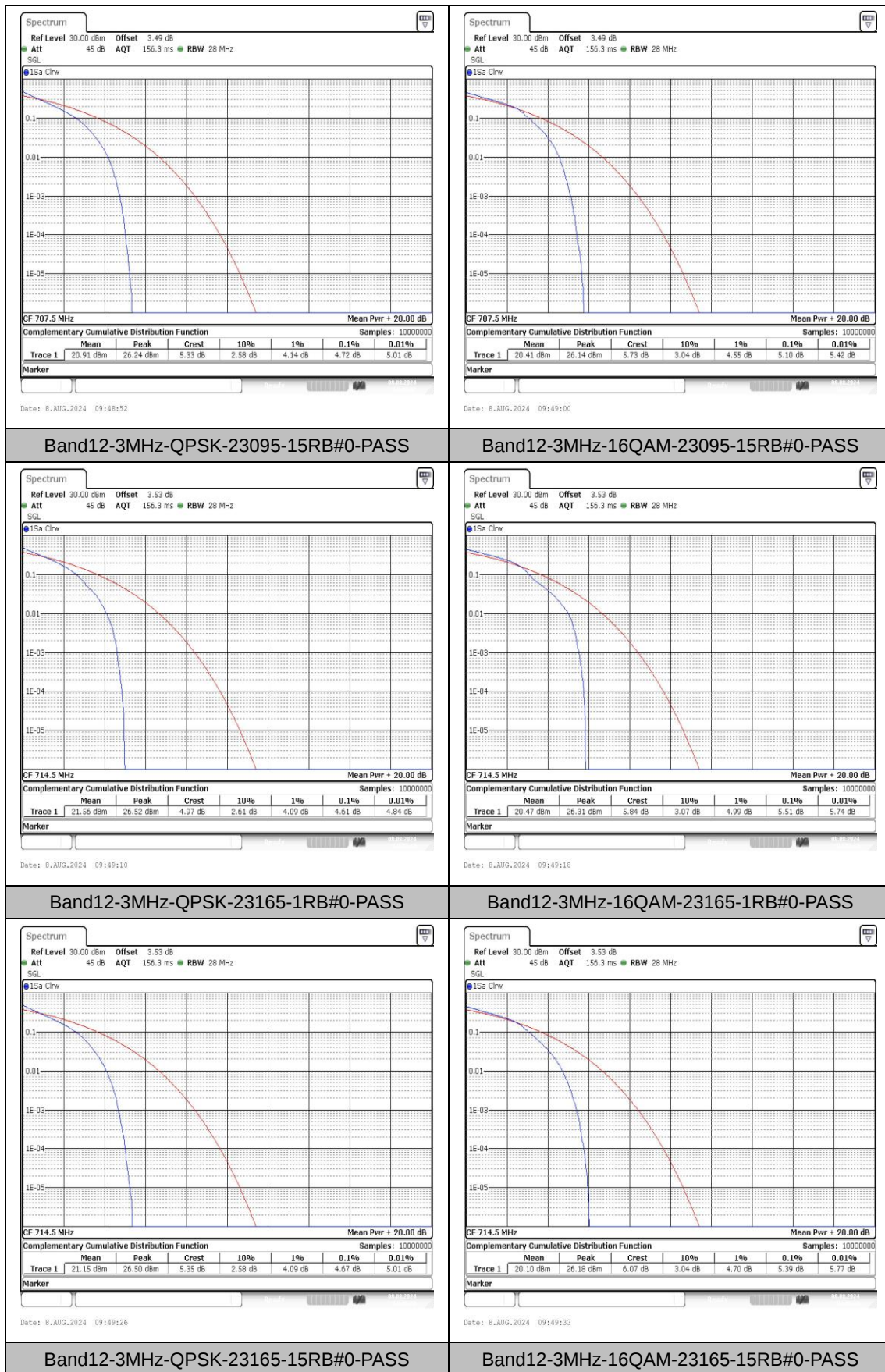
Band12	10MHz	16QAM	23060	1RB#0	5.04	13	PASS
Band12	10MHz	QPSK	23060	50RB#0	5.13	13	PASS
Band12	10MHz	16QAM	23060	50RB#0	5.59	13	PASS
Band12	10MHz	QPSK	23095	1RB#0	4.75	13	PASS
Band12	10MHz	16QAM	23095	1RB#0	5.33	13	PASS
Band12	10MHz	QPSK	23095	50RB#0	5.10	13	PASS
Band12	10MHz	16QAM	23095	50RB#0	5.51	13	PASS
Band12	10MHz	QPSK	23130	1RB#0	4.29	13	PASS
Band12	10MHz	16QAM	23130	1RB#0	4.61	13	PASS
Band12	10MHz	QPSK	23130	50RB#0	4.96	13	PASS
Band12	10MHz	16QAM	23130	50RB#0	5.45	13	PASS

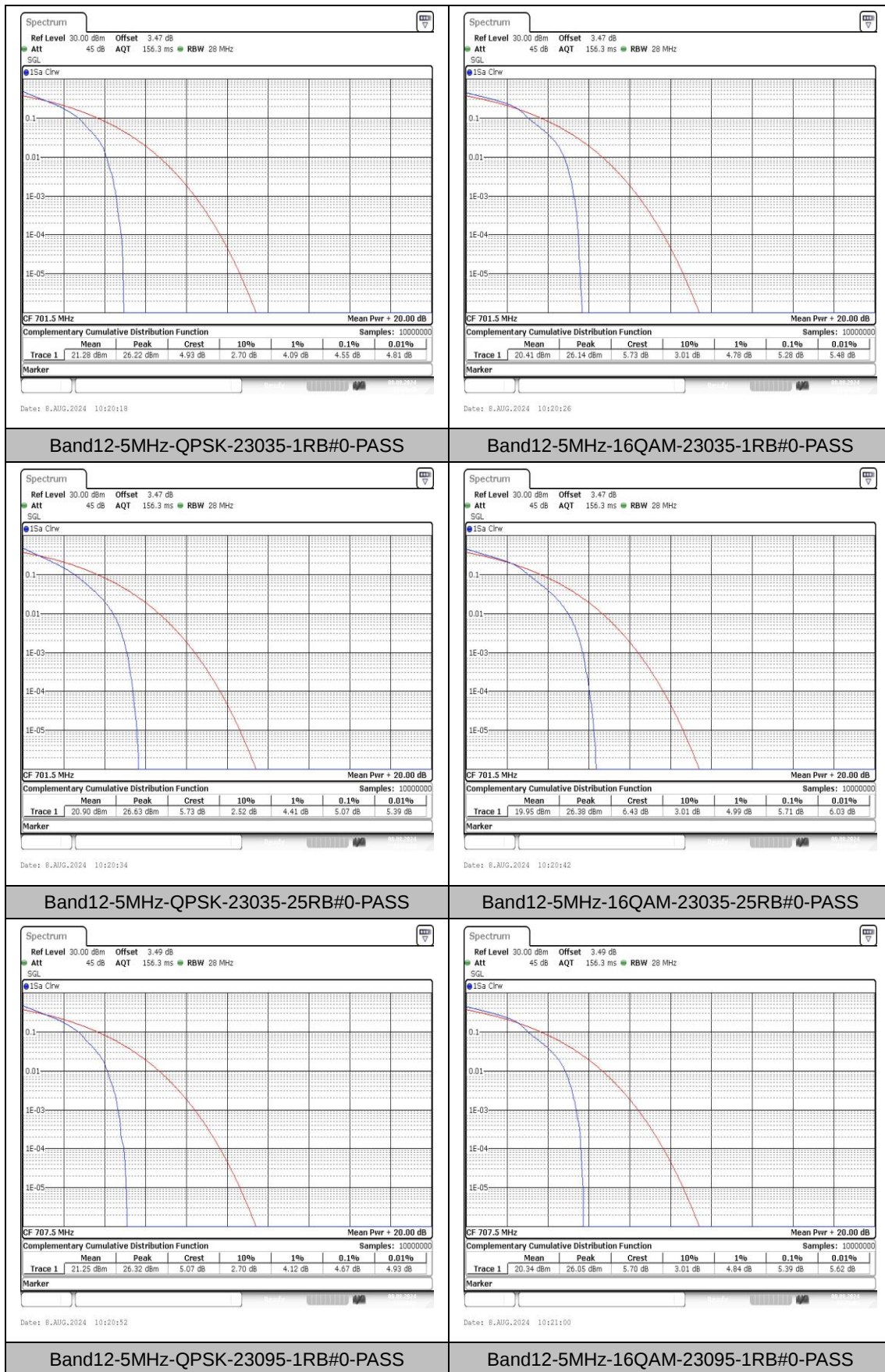
Test Graphs

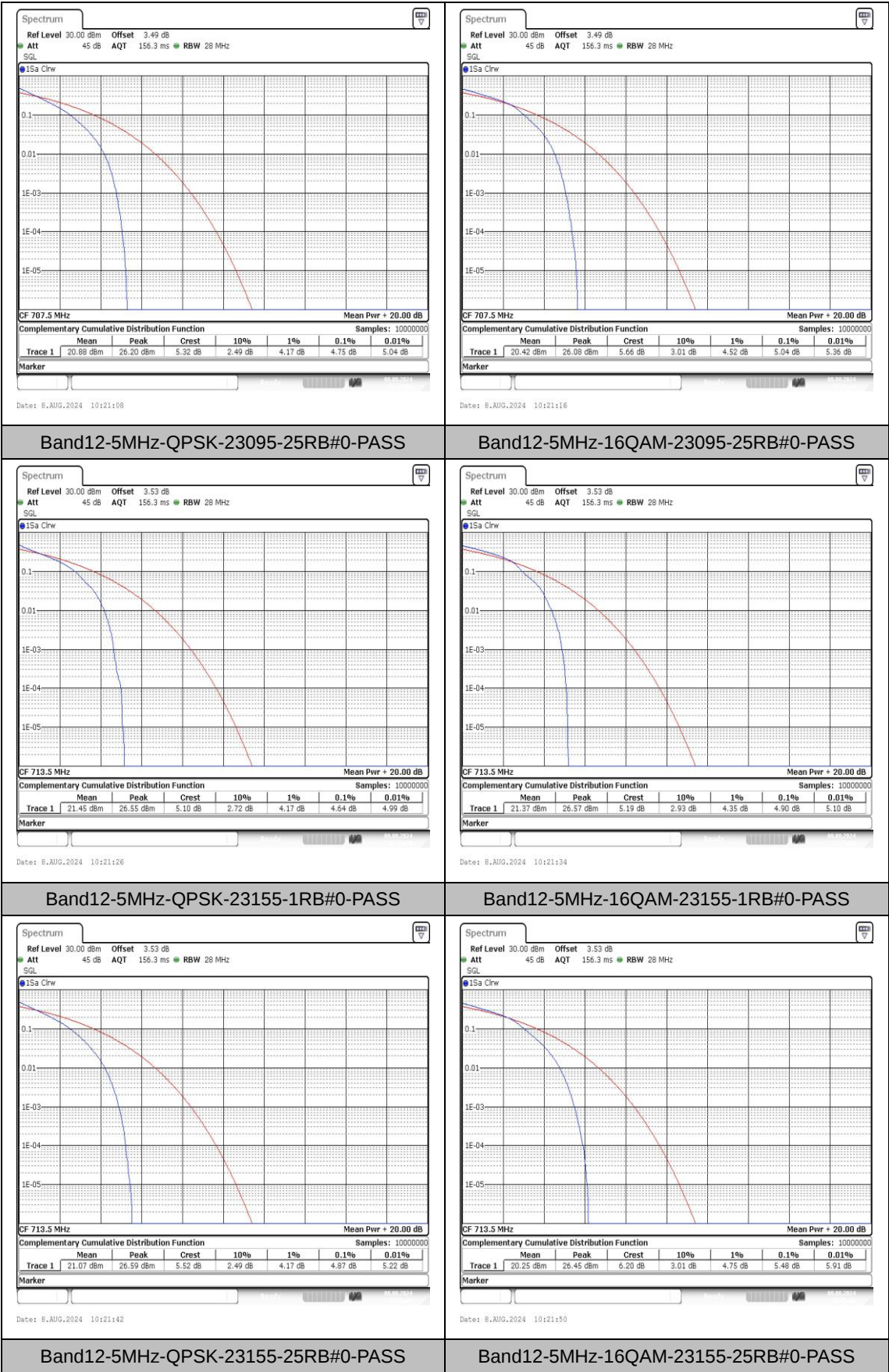


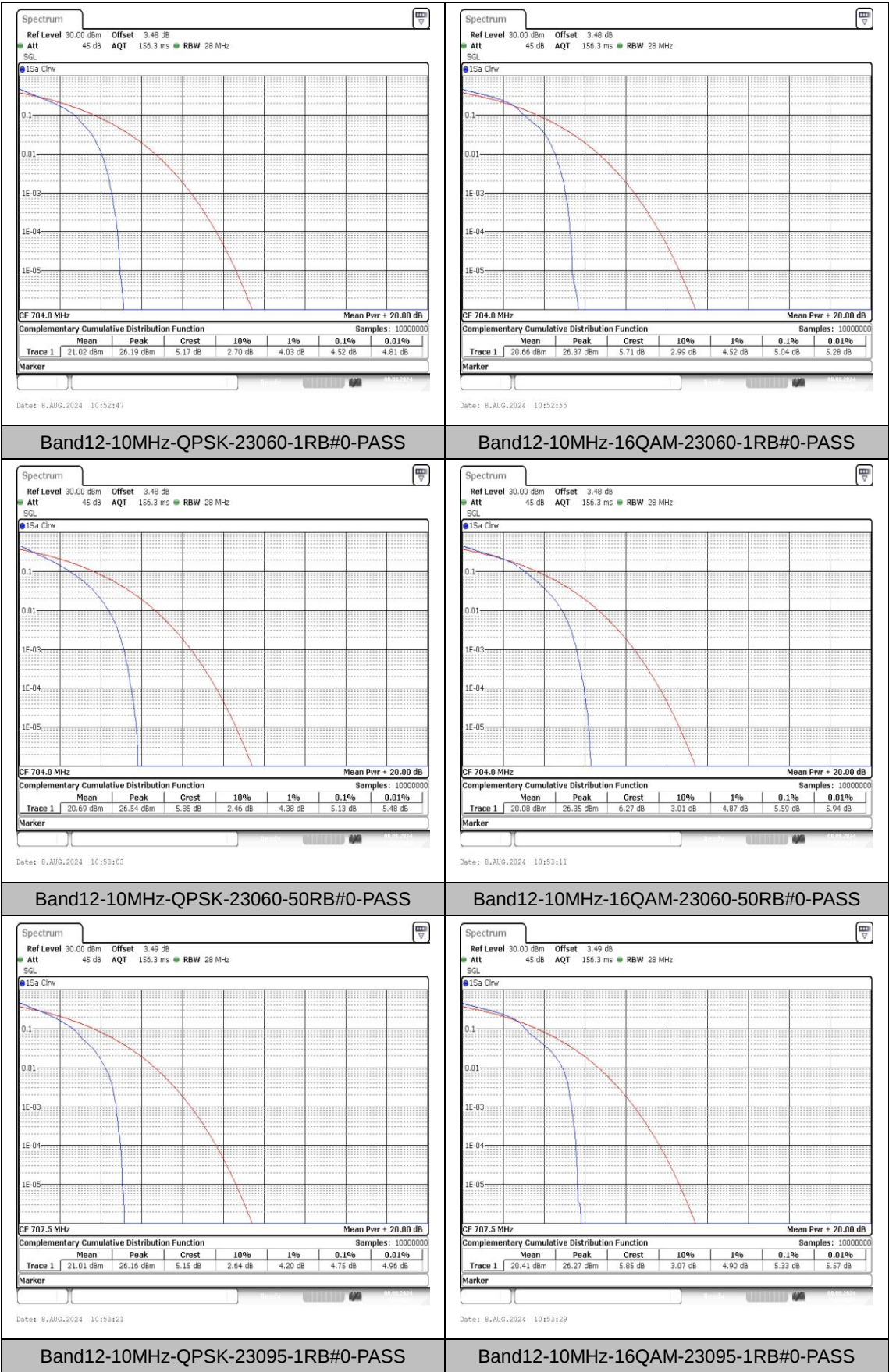


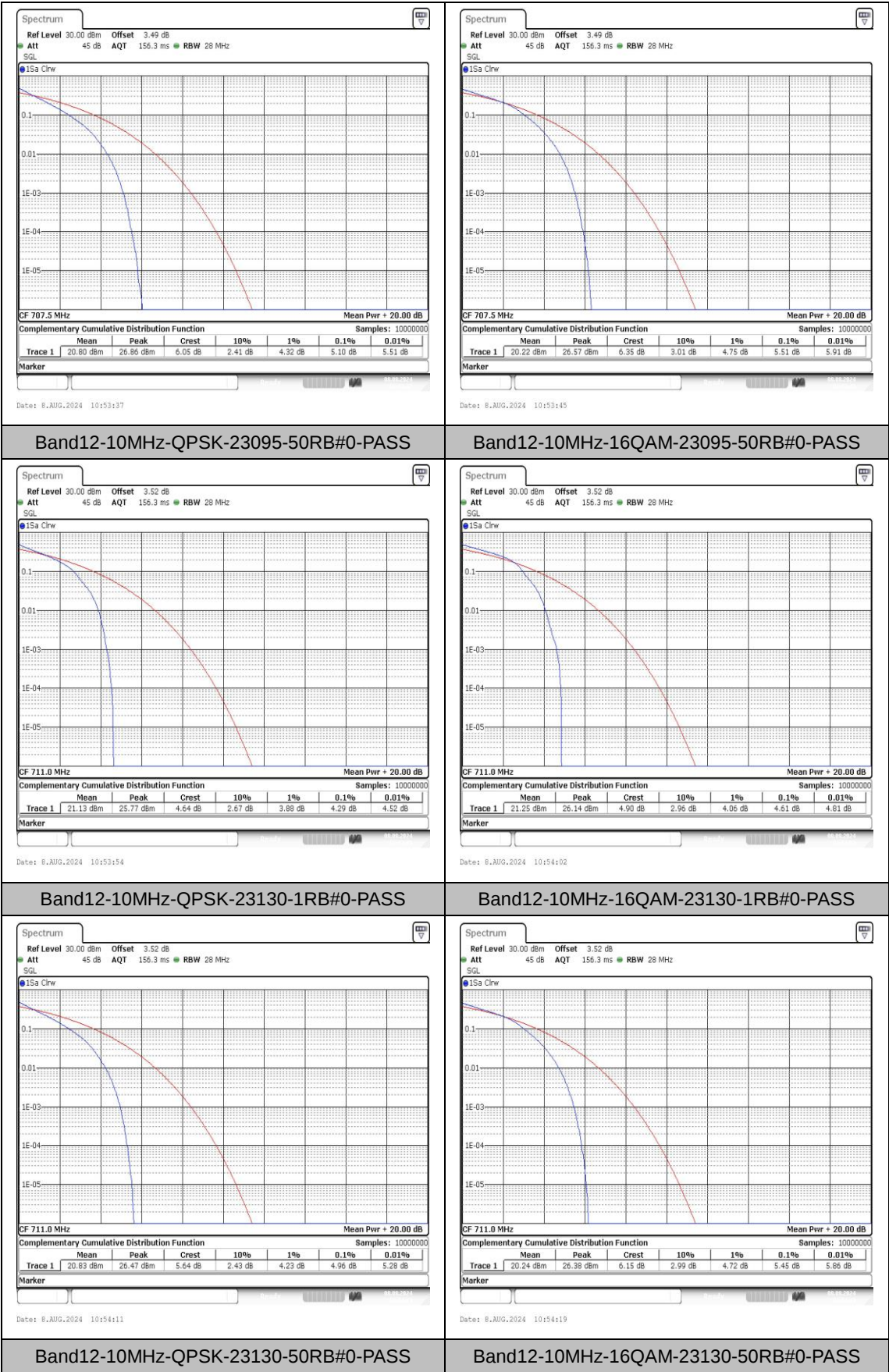










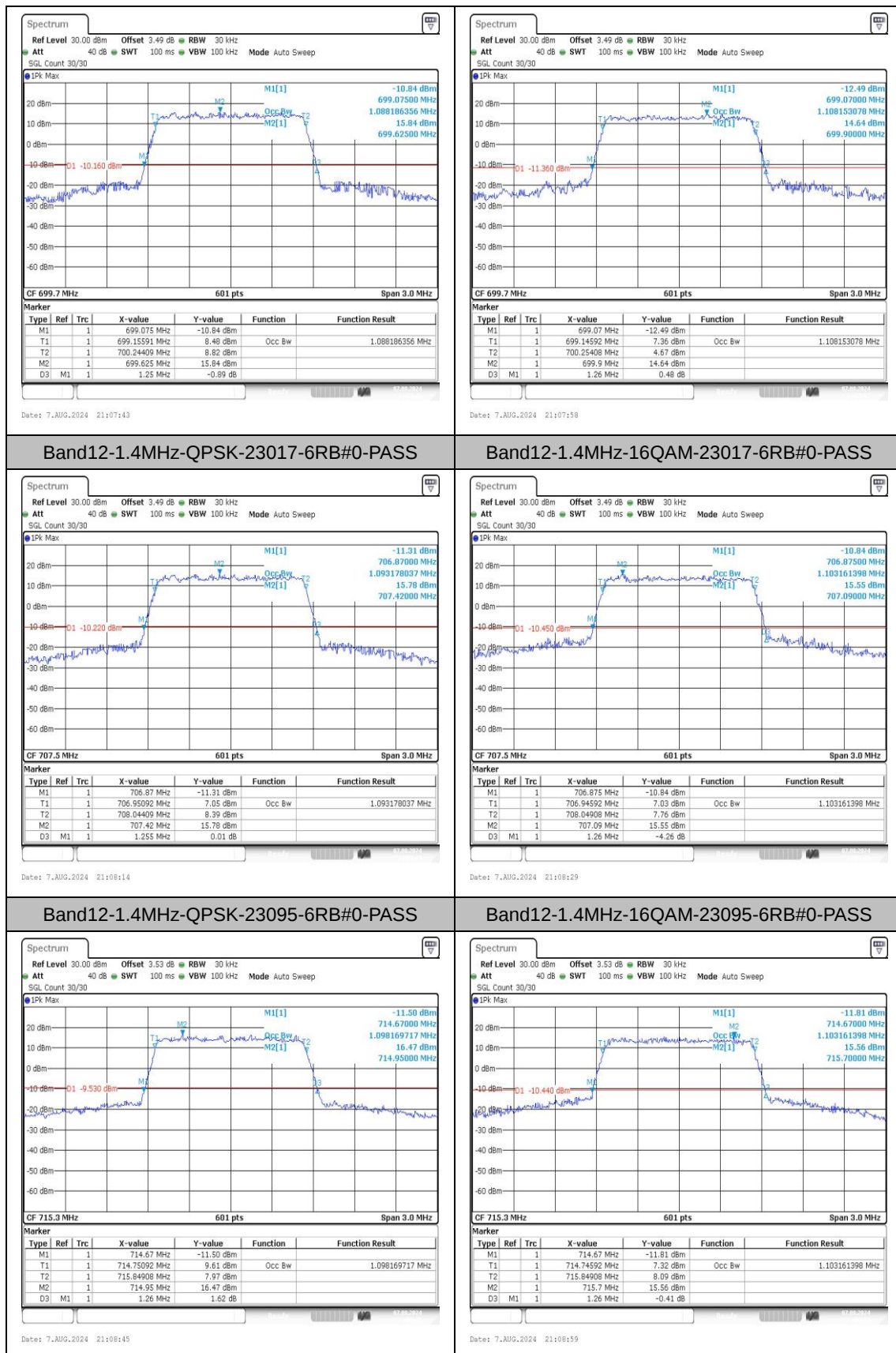


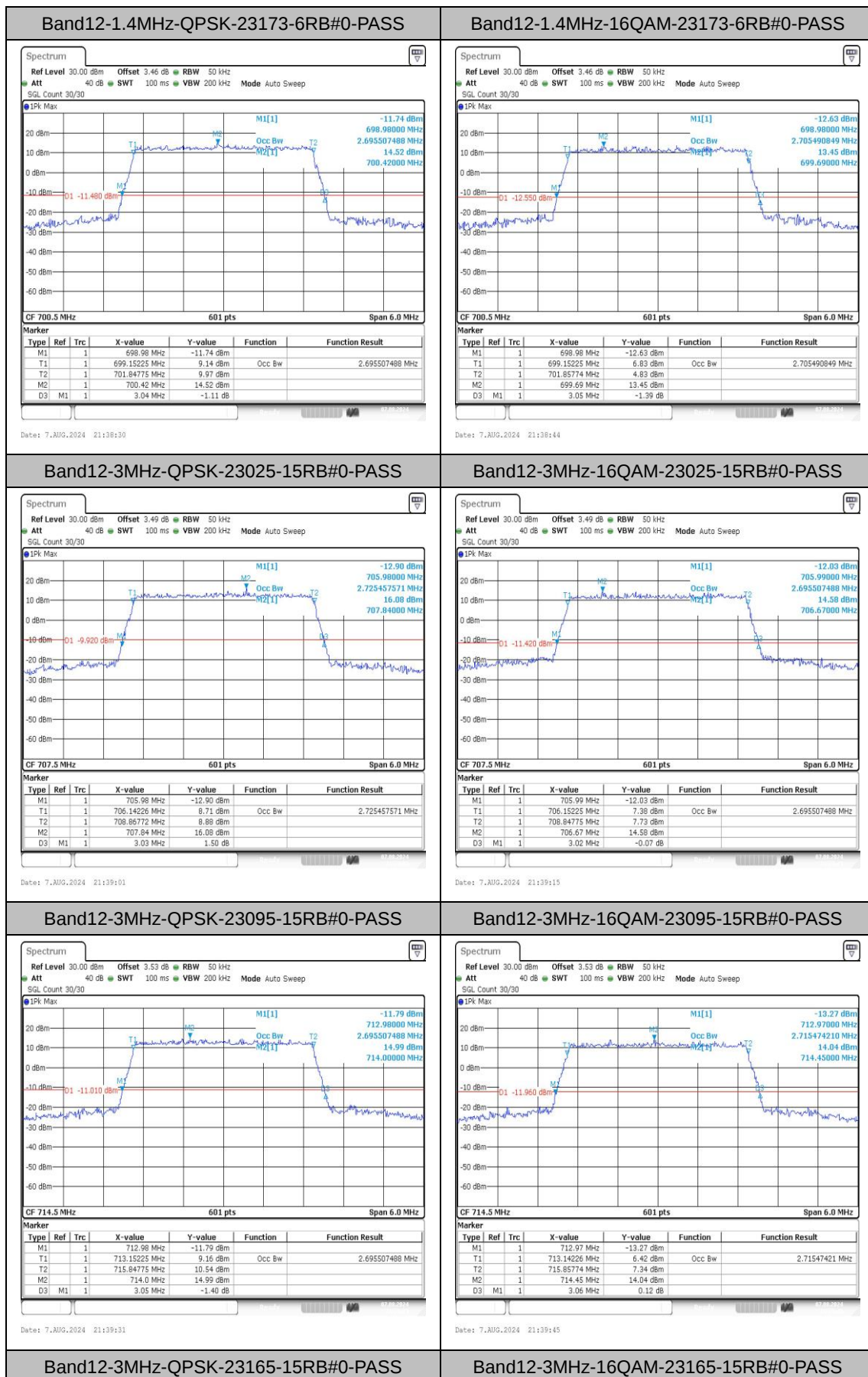
Appendix C: 26dB Bandwidth and Occupied Bandwidth

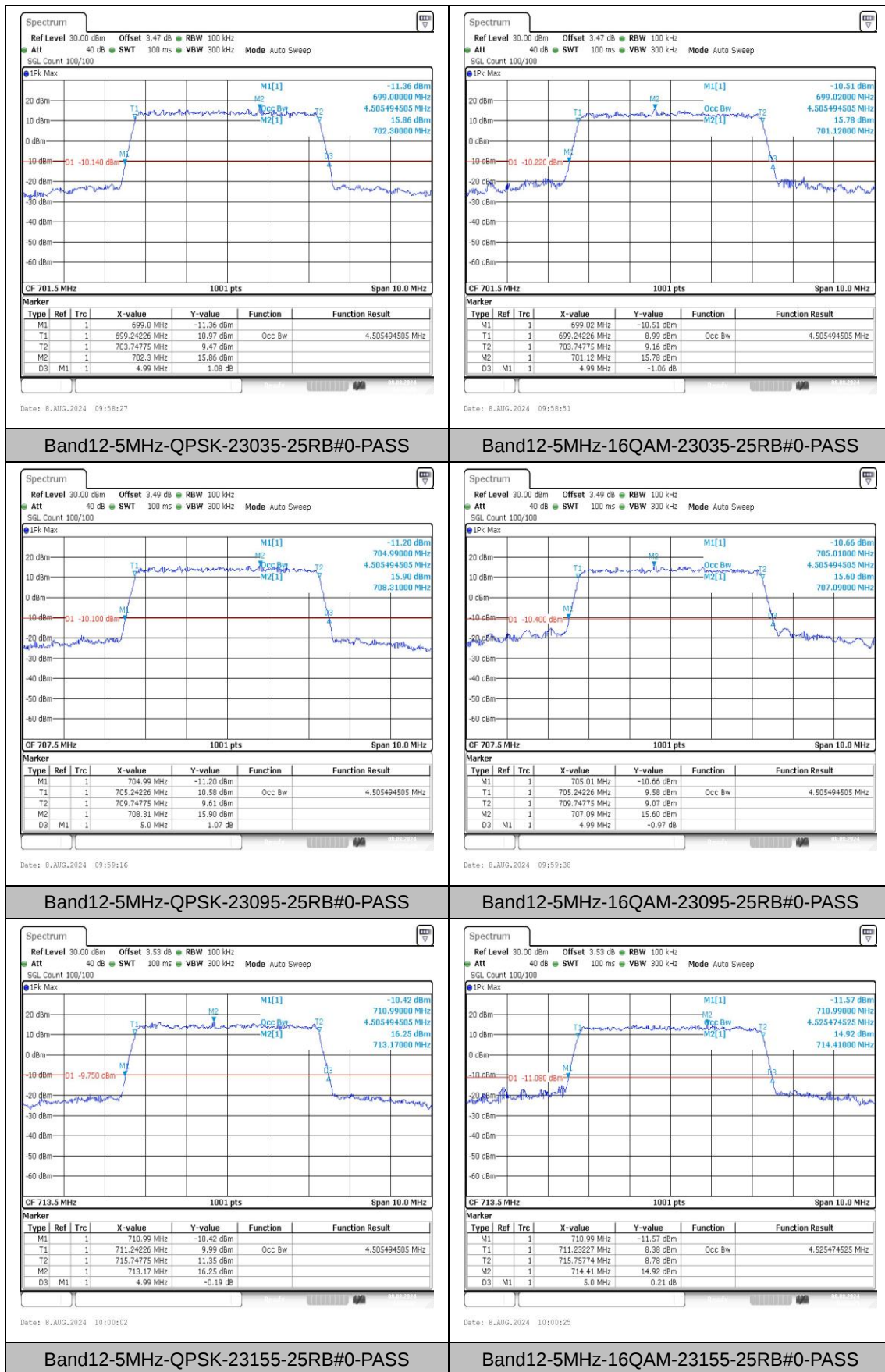
Test Result

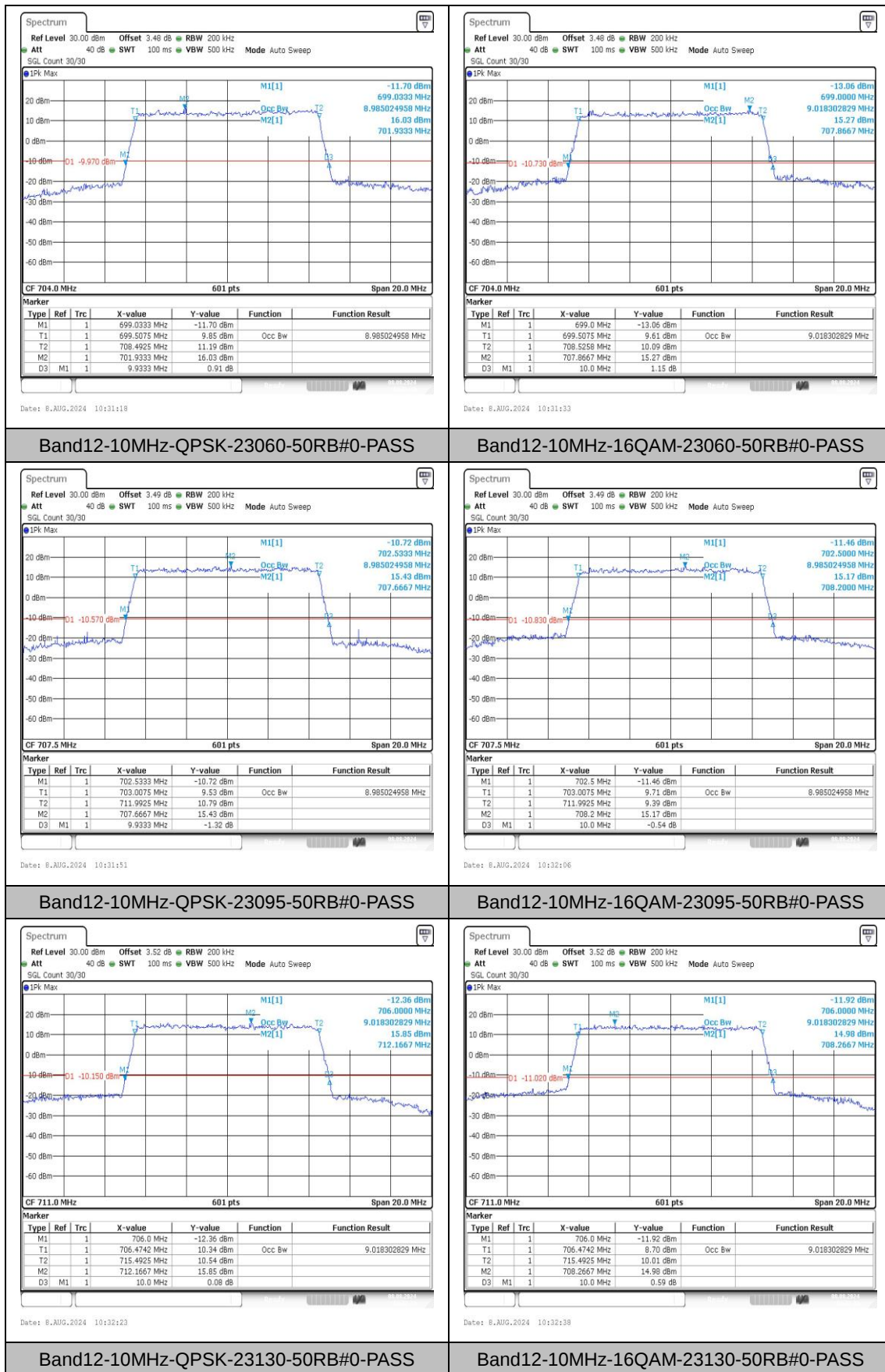
Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band12	1.4MHz	QPSK	23017	6RB#0	1.088	1.25	PASS
Band12	1.4MHz	16QAM	23017	6RB#0	1.108	1.26	PASS
Band12	1.4MHz	QPSK	23095	6RB#0	1.093	1.26	PASS
Band12	1.4MHz	16QAM	23095	6RB#0	1.103	1.26	PASS
Band12	1.4MHz	QPSK	23173	6RB#0	1.098	1.26	PASS
Band12	1.4MHz	16QAM	23173	6RB#0	1.103	1.26	PASS
Band12	3MHz	QPSK	23025	15RB#0	2.696	3.04	PASS
Band12	3MHz	16QAM	23025	15RB#0	2.705	3.05	PASS
Band12	3MHz	QPSK	23095	15RB#0	2.725	3.03	PASS
Band12	3MHz	16QAM	23095	15RB#0	2.696	3.02	PASS
Band12	3MHz	QPSK	23165	15RB#0	2.696	3.05	PASS
Band12	3MHz	16QAM	23165	15RB#0	2.715	3.06	PASS
Band12	5MHz	QPSK	23035	25RB#0	4.505	4.99	PASS
Band12	5MHz	16QAM	23035	25RB#0	4.505	4.99	PASS
Band12	5MHz	QPSK	23095	25RB#0	4.505	5.00	PASS
Band12	5MHz	16QAM	23095	25RB#0	4.505	4.99	PASS
Band12	5MHz	QPSK	23155	25RB#0	4.505	4.99	PASS
Band12	5MHz	16QAM	23155	25RB#0	4.525	5.00	PASS
Band12	10MHz	QPSK	23060	50RB#0	8.985	9.93	PASS
Band12	10MHz	16QAM	23060	50RB#0	9.018	10.00	PASS
Band12	10MHz	QPSK	23095	50RB#0	8.985	9.93	PASS
Band12	10MHz	16QAM	23095	50RB#0	8.985	10.00	PASS
Band12	10MHz	QPSK	23130	50RB#0	9.018	10.00	PASS
Band12	10MHz	16QAM	23130	50RB#0	9.018	10.00	PASS

Test Graphs









Appendix D: Band Edge

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band12	1.4MHz	QPSK	23017	1RB#0	-25.78	PASS
Band12	1.4MHz	16QAM	23017	1RB#0	-25.71	PASS
Band12	1.4MHz	QPSK	23017	1RB#5	-41.78	PASS
Band12	1.4MHz	16QAM	23017	1RB#5	-41.31	PASS
Band12	1.4MHz	QPSK	23017	6RB#0	-26.27	PASS
Band12	1.4MHz	16QAM	23017	6RB#0	-25.42	PASS
Band12	1.4MHz	QPSK	23173	1RB#0	-41.95	PASS
Band12	1.4MHz	16QAM	23173	1RB#0	-41.72	PASS
Band12	1.4MHz	QPSK	23173	1RB#5	-21.95	PASS
Band12	1.4MHz	16QAM	23173	1RB#5	-21.99	PASS
Band12	1.4MHz	QPSK	23173	6RB#0	-21.84	PASS
Band12	1.4MHz	16QAM	23173	6RB#0	-22.44	PASS
Band12	3MHz	QPSK	23025	1RB#0	-17.39	PASS
Band12	3MHz	16QAM	23025	1RB#0	-17.07	PASS
Band12	3MHz	QPSK	23025	1RB#14	-30.37	PASS
Band12	3MHz	16QAM	23025	1RB#14	-29.85	PASS
Band12	3MHz	QPSK	23025	15RB#0	-26.07	PASS
Band12	3MHz	16QAM	23025	15RB#0	-27.46	PASS
Band12	3MHz	QPSK	23165	1RB#0	-30.38	PASS
Band12	3MHz	16QAM	23165	1RB#0	-30.37	PASS
Band12	3MHz	QPSK	23165	1RB#14	-15.96	PASS
Band12	3MHz	16QAM	23165	1RB#14	-14.85	PASS
Band12	3MHz	QPSK	23165	15RB#0	-25.70	PASS
Band12	3MHz	16QAM	23165	15RB#0	-27.03	PASS
Band12	5MHz	QPSK	23035	1RB#0	-25.08	PASS
Band12	5MHz	16QAM	23035	1RB#0	-25.73	PASS
Band12	5MHz	QPSK	23035	1RB#24	-41.62	PASS
Band12	5MHz	16QAM	23035	1RB#24	-42.94	PASS
Band12	5MHz	QPSK	23035	25RB#0	-32.10	PASS
Band12	5MHz	16QAM	23035	25RB#0	-32.48	PASS
Band12	5MHz	QPSK	23155	1RB#0	-42.51	PASS
Band12	5MHz	16QAM	23155	1RB#0	-42.58	PASS
Band12	5MHz	QPSK	23155	1RB#24	-22.83	PASS
Band12	5MHz	16QAM	23155	1RB#24	-24.04	PASS
Band12	5MHz	QPSK	23155	25RB#0	-30.58	PASS

Band12	5MHz	16QAM	23155	25RB#0	-30.41	PASS
Band12	10MHz	QPSK	23060	1RB#0	-30.17	PASS
Band12	10MHz	16QAM	23060	1RB#0	-30.08	PASS
Band12	10MHz	QPSK	23060	1RB#49	-48.56	PASS
Band12	10MHz	16QAM	23060	1RB#49	-48.68	PASS
Band12	10MHz	QPSK	23060	50RB#0	-35.21	PASS
Band12	10MHz	16QAM	23060	50RB#0	-34.56	PASS
Band12	10MHz	QPSK	23130	1RB#0	-49.60	PASS
Band12	10MHz	16QAM	23130	1RB#0	-49.80	PASS
Band12	10MHz	QPSK	23130	1RB#49	-29.89	PASS
Band12	10MHz	16QAM	23130	1RB#49	-28.72	PASS
Band12	10MHz	QPSK	23130	50RB#0	-34.60	PASS
Band12	10MHz	16QAM	23130	50RB#0	-33.59	PASS

Test Graphs

