

Appendix for LTE BAND 12

Product Name: Mobile Phone

Model No: SIMPLE

Appendix A: Average Power Output Data

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band12	1.4MHz	QPSK	23017	1RB#0	22.42	PASS
Band12	1.4MHz	QPSK	23017	1RB#2	22.51	PASS
Band12	1.4MHz	QPSK	23017	1RB#5	22.43	PASS
Band12	1.4MHz	QPSK	23017	3RB#0	22.54	PASS
Band12	1.4MHz	QPSK	23017	3RB#1	22.53	PASS
Band12	1.4MHz	QPSK	23017	3RB#3	22.45	PASS
Band12	1.4MHz	QPSK	23017	6RB#0	21.87	PASS
Band12	1.4MHz	16QAM	23017	1RB#0	21.24	PASS
Band12	1.4MHz	16QAM	23017	1RB#2	21.65	PASS
Band12	1.4MHz	16QAM	23017	1RB#5	21.65	PASS
Band12	1.4MHz	16QAM	23017	3RB#0	21.60	PASS
Band12	1.4MHz	16QAM	23017	3RB#1	21.88	PASS
Band12	1.4MHz	16QAM	23017	3RB#3	21.91	PASS
Band12	1.4MHz	16QAM	23017	6RB#0	21.06	PASS
Band12	1.4MHz	QPSK	23095	1RB#0	22.50	PASS
Band12	1.4MHz	QPSK	23095	1RB#2	22.53	PASS
Band12	1.4MHz	QPSK	23095	1RB#5	22.52	PASS
Band12	1.4MHz	QPSK	23095	3RB#0	22.47	PASS
Band12	1.4MHz	QPSK	23095	3RB#1	22.44	PASS
Band12	1.4MHz	QPSK	23095	3RB#3	22.41	PASS
Band12	1.4MHz	QPSK	23095	6RB#0	22.34	PASS
Band12	1.4MHz	16QAM	23095	1RB#0	21.77	PASS
Band12	1.4MHz	16QAM	23095	1RB#2	22.78	PASS
Band12	1.4MHz	16QAM	23095	1RB#5	22.15	PASS
Band12	1.4MHz	16QAM	23095	3RB#0	22.01	PASS
Band12	1.4MHz	16QAM	23095	3RB#1	21.98	PASS
Band12	1.4MHz	16QAM	23095	3RB#3	21.88	PASS
Band12	1.4MHz	16QAM	23095	6RB#0	21.34	PASS
Band12	1.4MHz	QPSK	23173	1RB#0	22.33	PASS
Band12	1.4MHz	QPSK	23173	1RB#2	22.37	PASS
Band12	1.4MHz	QPSK	23173	1RB#5	22.37	PASS
Band12	1.4MHz	QPSK	23173	3RB#0	22.43	PASS
Band12	1.4MHz	QPSK	23173	3RB#1	22.44	PASS
Band12	1.4MHz	QPSK	23173	3RB#3	22.41	PASS
Band12	1.4MHz	QPSK	23173	6RB#0	21.90	PASS
Band12	1.4MHz	16QAM	23173	1RB#0	22.32	PASS

Band12	1.4MHz	16QAM	23173	1RB#2	21.89	PASS
Band12	1.4MHz	16QAM	23173	1RB#5	22.33	PASS
Band12	1.4MHz	16QAM	23173	3RB#0	21.43	PASS
Band12	1.4MHz	16QAM	23173	3RB#1	21.40	PASS
Band12	1.4MHz	16QAM	23173	3RB#3	21.53	PASS
Band12	1.4MHz	16QAM	23173	6RB#0	21.36	PASS
Band12	3MHz	QPSK	23025	1RB#0	22.36	PASS
Band12	3MHz	QPSK	23025	1RB#8	22.42	PASS
Band12	3MHz	QPSK	23025	1RB#14	22.27	PASS
Band12	3MHz	QPSK	23025	8RB#0	21.90	PASS
Band12	3MHz	QPSK	23025	8RB#4	21.90	PASS
Band12	3MHz	QPSK	23025	8RB#7	21.92	PASS
Band12	3MHz	QPSK	23025	15RB#0	21.93	PASS
Band12	3MHz	16QAM	23025	1RB#0	22.01	PASS
Band12	3MHz	16QAM	23025	1RB#8	21.54	PASS
Band12	3MHz	16QAM	23025	1RB#14	21.48	PASS
Band12	3MHz	16QAM	23025	8RB#0	21.02	PASS
Band12	3MHz	16QAM	23025	8RB#4	21.05	PASS
Band12	3MHz	16QAM	23025	8RB#7	21.36	PASS
Band12	3MHz	16QAM	23025	15RB#0	21.00	PASS
Band12	3MHz	QPSK	23095	1RB#0	22.49	PASS
Band12	3MHz	QPSK	23095	1RB#8	22.52	PASS
Band12	3MHz	QPSK	23095	1RB#14	22.46	PASS
Band12	3MHz	QPSK	23095	8RB#0	21.80	PASS
Band12	3MHz	QPSK	23095	8RB#4	21.80	PASS
Band12	3MHz	QPSK	23095	8RB#7	22.23	PASS
Band12	3MHz	QPSK	23095	15RB#0	22.41	PASS
Band12	3MHz	16QAM	23095	1RB#0	21.50	PASS
Band12	3MHz	16QAM	23095	1RB#8	21.60	PASS
Band12	3MHz	16QAM	23095	1RB#14	21.67	PASS
Band12	3MHz	16QAM	23095	8RB#0	21.50	PASS
Band12	3MHz	16QAM	23095	8RB#4	21.50	PASS
Band12	3MHz	16QAM	23095	8RB#7	21.49	PASS
Band12	3MHz	16QAM	23095	15RB#0	21.21	PASS
Band12	3MHz	QPSK	23165	1RB#0	22.44	PASS
Band12	3MHz	QPSK	23165	1RB#8	22.40	PASS
Band12	3MHz	QPSK	23165	1RB#14	22.26	PASS
Band12	3MHz	QPSK	23165	8RB#0	21.82	PASS
Band12	3MHz	QPSK	23165	8RB#4	21.84	PASS
Band12	3MHz	QPSK	23165	8RB#7	21.91	PASS
Band12	3MHz	QPSK	23165	15RB#0	21.80	PASS
Band12	3MHz	16QAM	23165	1RB#0	21.64	PASS

Band12	3MHz	16QAM	23165	1RB#8	21.79	PASS
Band12	3MHz	16QAM	23165	1RB#14	21.98	PASS
Band12	3MHz	16QAM	23165	8RB#0	21.52	PASS
Band12	3MHz	16QAM	23165	8RB#4	21.52	PASS
Band12	3MHz	16QAM	23165	8RB#7	21.35	PASS
Band12	3MHz	16QAM	23165	15RB#0	21.23	PASS
Band12	5MHz	QPSK	23035	1RB#0	22.45	PASS
Band12	5MHz	QPSK	23035	1RB#12	22.61	PASS
Band12	5MHz	QPSK	23035	1RB#24	22.56	PASS
Band12	5MHz	QPSK	23035	12RB#0	21.95	PASS
Band12	5MHz	QPSK	23035	12RB#6	21.96	PASS
Band12	5MHz	QPSK	23035	12RB#13	21.85	PASS
Band12	5MHz	QPSK	23035	25RB#0	21.82	PASS
Band12	5MHz	16QAM	23035	1RB#0	21.45	PASS
Band12	5MHz	16QAM	23035	1RB#12	21.17	PASS
Band12	5MHz	16QAM	23035	1RB#24	21.14	PASS
Band12	5MHz	16QAM	23035	12RB#0	20.95	PASS
Band12	5MHz	16QAM	23035	12RB#6	20.95	PASS
Band12	5MHz	16QAM	23035	12RB#13	21.27	PASS
Band12	5MHz	16QAM	23035	25RB#0	21.48	PASS
Band12	5MHz	QPSK	23095	1RB#0	22.32	PASS
Band12	5MHz	QPSK	23095	1RB#12	22.50	PASS
Band12	5MHz	QPSK	23095	1RB#24	22.49	PASS
Band12	5MHz	QPSK	23095	12RB#0	21.88	PASS
Band12	5MHz	QPSK	23095	12RB#6	21.99	PASS
Band12	5MHz	QPSK	23095	12RB#13	22.37	PASS
Band12	5MHz	QPSK	23095	25RB#0	22.38	PASS
Band12	5MHz	16QAM	23095	1RB#0	21.59	PASS
Band12	5MHz	16QAM	23095	1RB#12	21.92	PASS
Band12	5MHz	16QAM	23095	1RB#24	21.57	PASS
Band12	5MHz	16QAM	23095	12RB#0	21.34	PASS
Band12	5MHz	16QAM	23095	12RB#6	21.34	PASS
Band12	5MHz	16QAM	23095	12RB#13	21.29	PASS
Band12	5MHz	16QAM	23095	25RB#0	21.33	PASS
Band12	5MHz	QPSK	23155	1RB#0	22.49	PASS
Band12	5MHz	QPSK	23155	1RB#12	22.56	PASS
Band12	5MHz	QPSK	23155	1RB#24	22.63	PASS
Band12	5MHz	QPSK	23155	12RB#0	21.90	PASS
Band12	5MHz	QPSK	23155	12RB#6	21.91	PASS
Band12	5MHz	QPSK	23155	12RB#13	21.82	PASS
Band12	5MHz	QPSK	23155	25RB#0	21.88	PASS
Band12	5MHz	16QAM	23155	1RB#0	21.31	PASS

Band12	5MHz	16QAM	23155	1RB#12	21.17	PASS
Band12	5MHz	16QAM	23155	1RB#24	21.21	PASS
Band12	5MHz	16QAM	23155	12RB#0	21.30	PASS
Band12	5MHz	16QAM	23155	12RB#6	21.27	PASS
Band12	5MHz	16QAM	23155	12RB#13	21.23	PASS
Band12	5MHz	16QAM	23155	25RB#0	21.44	PASS
Band12	10MHz	QPSK	23060	1RB#0	22.40	PASS
Band12	10MHz	QPSK	23060	1RB#24	22.35	PASS
Band12	10MHz	QPSK	23060	1RB#49	22.47	PASS
Band12	10MHz	QPSK	23060	25RB#0	21.95	PASS
Band12	10MHz	QPSK	23060	25RB#12	21.95	PASS
Band12	10MHz	QPSK	23060	25RB#25	21.80	PASS
Band12	10MHz	QPSK	23060	50RB#0	21.86	PASS
Band12	10MHz	16QAM	23060	1RB#0	21.97	PASS
Band12	10MHz	16QAM	23060	1RB#24	21.38	PASS
Band12	10MHz	16QAM	23060	1RB#49	21.88	PASS
Band12	10MHz	16QAM	23060	25RB#0	21.20	PASS
Band12	10MHz	16QAM	23060	25RB#12	21.22	PASS
Band12	10MHz	16QAM	23060	25RB#25	21.28	PASS
Band12	10MHz	16QAM	23060	50RB#0	21.38	PASS
Band12	10MHz	QPSK	23095	1RB#0	22.48	PASS
Band12	10MHz	QPSK	23095	1RB#24	22.52	PASS
Band12	10MHz	QPSK	23095	1RB#49	22.50	PASS
Band12	10MHz	QPSK	23095	25RB#0	21.83	PASS
Band12	10MHz	QPSK	23095	25RB#12	21.82	PASS
Band12	10MHz	QPSK	23095	25RB#25	22.12	PASS
Band12	10MHz	QPSK	23095	50RB#0	22.20	PASS
Band12	10MHz	16QAM	23095	1RB#0	21.68	PASS
Band12	10MHz	16QAM	23095	1RB#24	21.62	PASS
Band12	10MHz	16QAM	23095	1RB#49	21.66	PASS
Band12	10MHz	16QAM	23095	25RB#0	21.45	PASS
Band12	10MHz	16QAM	23095	25RB#12	21.45	PASS
Band12	10MHz	16QAM	23095	25RB#25	21.10	PASS
Band12	10MHz	16QAM	23095	50RB#0	21.34	PASS
Band12	10MHz	QPSK	23130	1RB#0	22.36	PASS
Band12	10MHz	QPSK	23130	1RB#24	22.81	PASS
Band12	10MHz	QPSK	23130	1RB#49	22.47	PASS
Band12	10MHz	QPSK	23130	25RB#0	22.30	PASS
Band12	10MHz	QPSK	23130	25RB#12	22.38	PASS
Band12	10MHz	QPSK	23130	25RB#25	21.84	PASS
Band12	10MHz	QPSK	23130	50RB#0	22.02	PASS
Band12	10MHz	16QAM	23130	1RB#0	21.76	PASS

Band12	10MHz	16QAM	23130	1RB#24	22.37	PASS
Band12	10MHz	16QAM	23130	1RB#49	21.72	PASS
Band12	10MHz	16QAM	23130	25RB#0	21.45	PASS
Band12	10MHz	16QAM	23130	25RB#12	21.45	PASS
Band12	10MHz	16QAM	23130	25RB#25	21.41	PASS
Band12	10MHz	16QAM	23130	50RB#0	21.13	PASS

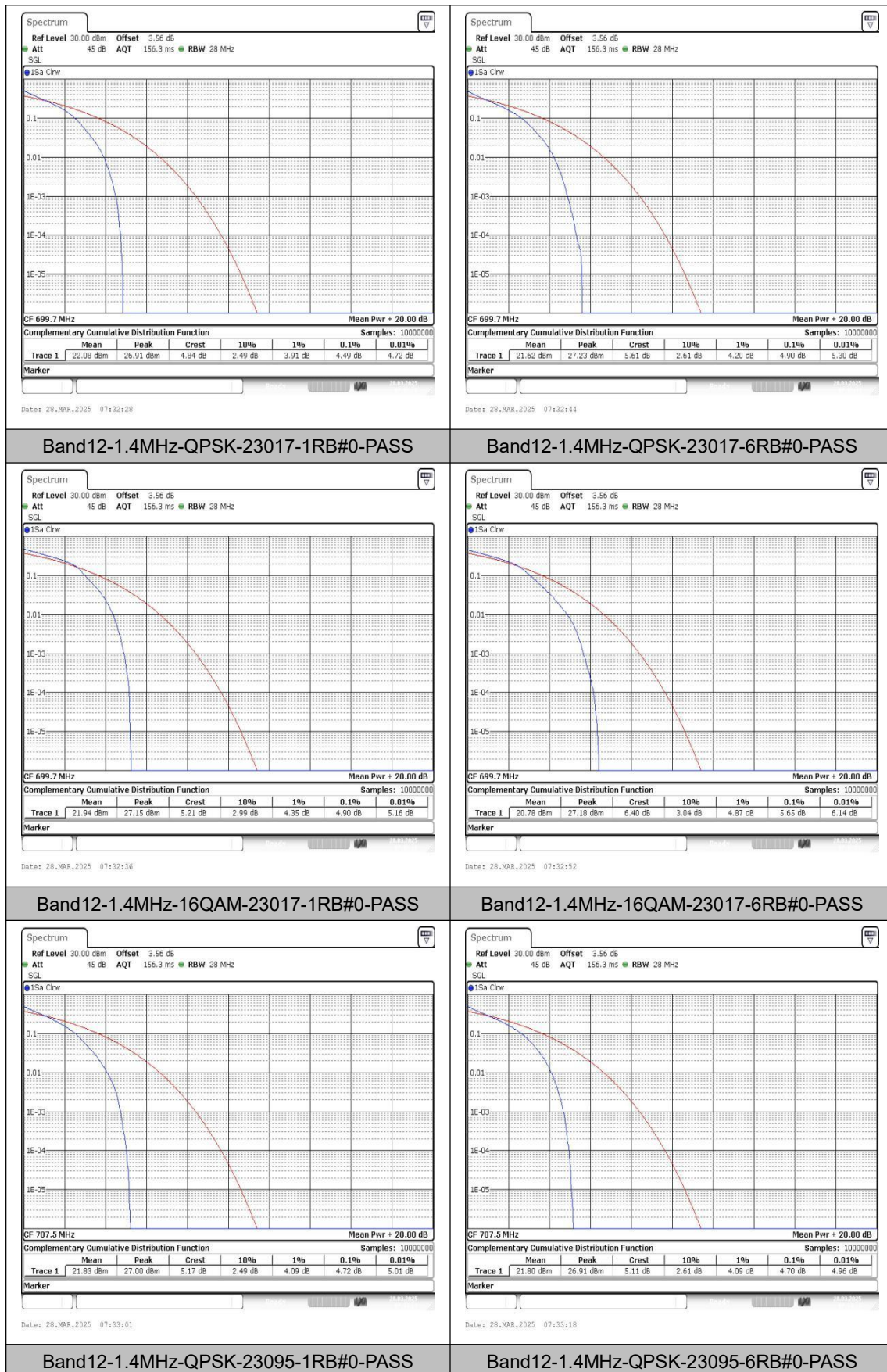
Appendix B: Peak-to-Average Ratio(CCDF)

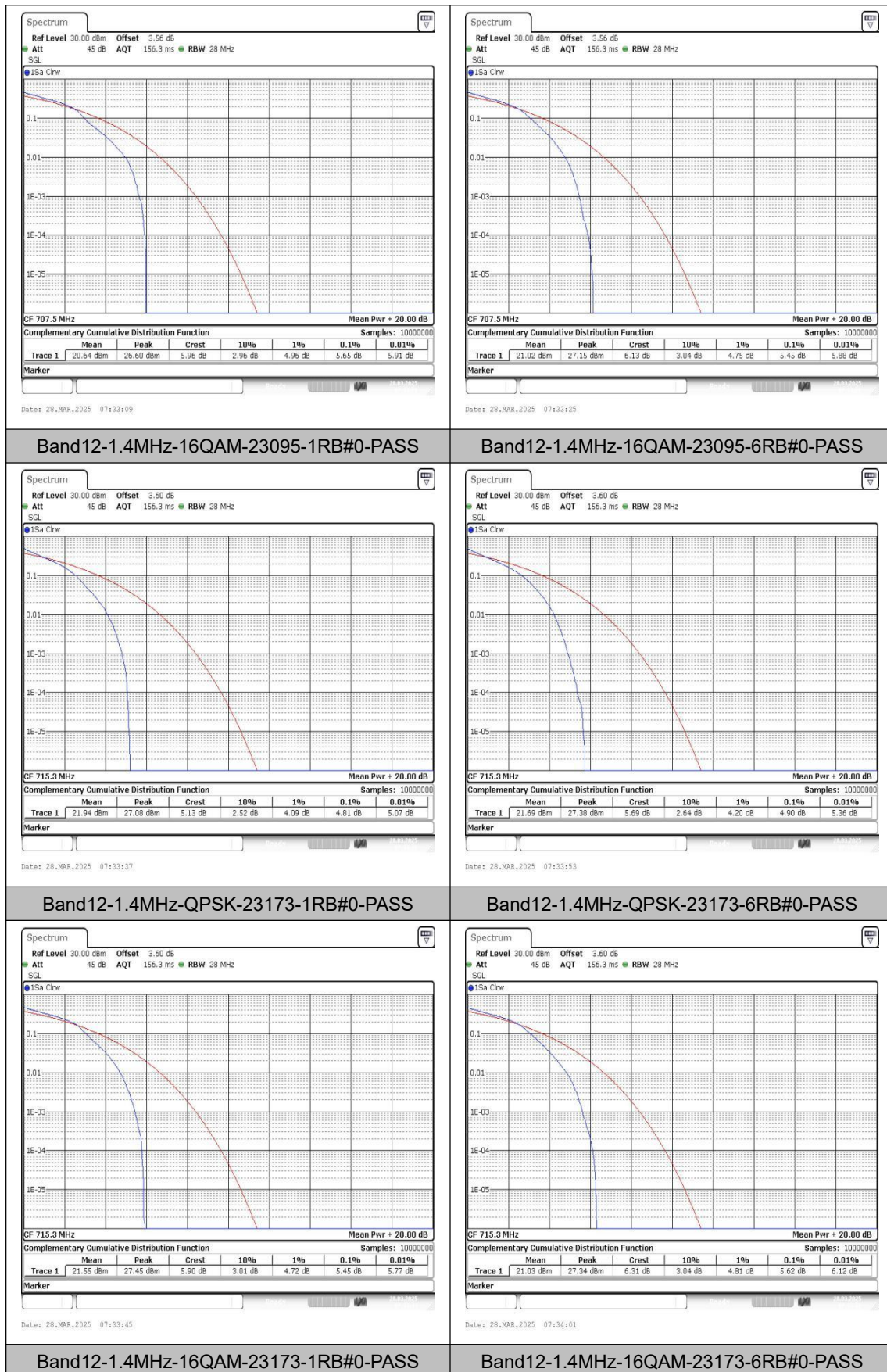
Test Result

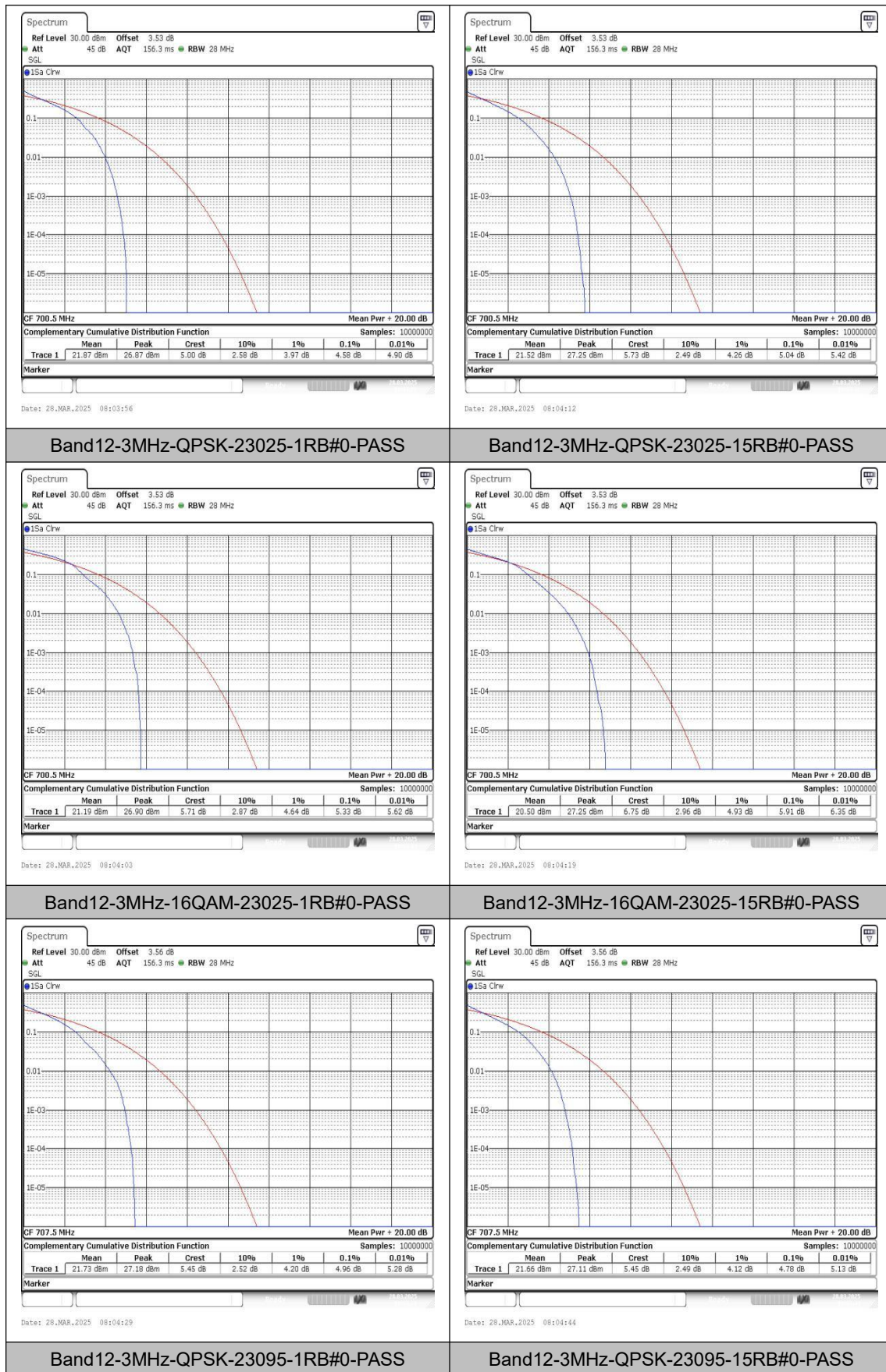
Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band12	1.4MHz	QPSK	23017	1RB#0	4.49	13	PASS
Band12	1.4MHz	QPSK	23017	6RB#0	4.90	13	PASS
Band12	1.4MHz	16QAM	23017	1RB#0	4.90	13	PASS
Band12	1.4MHz	16QAM	23017	6RB#0	5.65	13	PASS
Band12	1.4MHz	QPSK	23095	1RB#0	4.72	13	PASS
Band12	1.4MHz	QPSK	23095	6RB#0	4.70	13	PASS
Band12	1.4MHz	16QAM	23095	1RB#0	5.65	13	PASS
Band12	1.4MHz	16QAM	23095	6RB#0	5.45	13	PASS
Band12	1.4MHz	QPSK	23173	1RB#0	4.81	13	PASS
Band12	1.4MHz	QPSK	23173	6RB#0	4.90	13	PASS
Band12	1.4MHz	16QAM	23173	1RB#0	5.45	13	PASS
Band12	1.4MHz	16QAM	23173	6RB#0	5.62	13	PASS
Band12	3MHz	QPSK	23025	1RB#0	4.58	13	PASS
Band12	3MHz	QPSK	23025	15RB#0	5.04	13	PASS
Band12	3MHz	16QAM	23025	1RB#0	5.33	13	PASS
Band12	3MHz	16QAM	23025	15RB#0	5.91	13	PASS
Band12	3MHz	QPSK	23095	1RB#0	4.96	13	PASS
Band12	3MHz	QPSK	23095	15RB#0	4.78	13	PASS
Band12	3MHz	16QAM	23095	1RB#0	5.80	13	PASS
Band12	3MHz	16QAM	23095	15RB#0	5.59	13	PASS
Band12	3MHz	QPSK	23165	1RB#0	4.72	13	PASS
Band12	3MHz	QPSK	23165	15RB#0	5.10	13	PASS
Band12	3MHz	16QAM	23165	1RB#0	5.54	13	PASS
Band12	3MHz	16QAM	23165	15RB#0	5.83	13	PASS
Band12	5MHz	QPSK	23035	1RB#0	4.58	13	PASS
Band12	5MHz	QPSK	23035	25RB#0	5.16	13	PASS
Band12	5MHz	16QAM	23035	1RB#0	5.25	13	PASS
Band12	5MHz	16QAM	23035	25RB#0	5.77	13	PASS
Band12	5MHz	QPSK	23095	1RB#0	5.19	13	PASS
Band12	5MHz	QPSK	23095	25RB#0	4.72	13	PASS
Band12	5MHz	16QAM	23095	1RB#0	5.65	13	PASS
Band12	5MHz	16QAM	23095	25RB#0	5.68	13	PASS
Band12	5MHz	QPSK	23155	1RB#0	4.38	13	PASS
Band12	5MHz	QPSK	23155	25RB#0	5.04	13	PASS
Band12	5MHz	16QAM	23155	1RB#0	5.07	13	PASS
Band12	5MHz	16QAM	23155	25RB#0	5.65	13	PASS

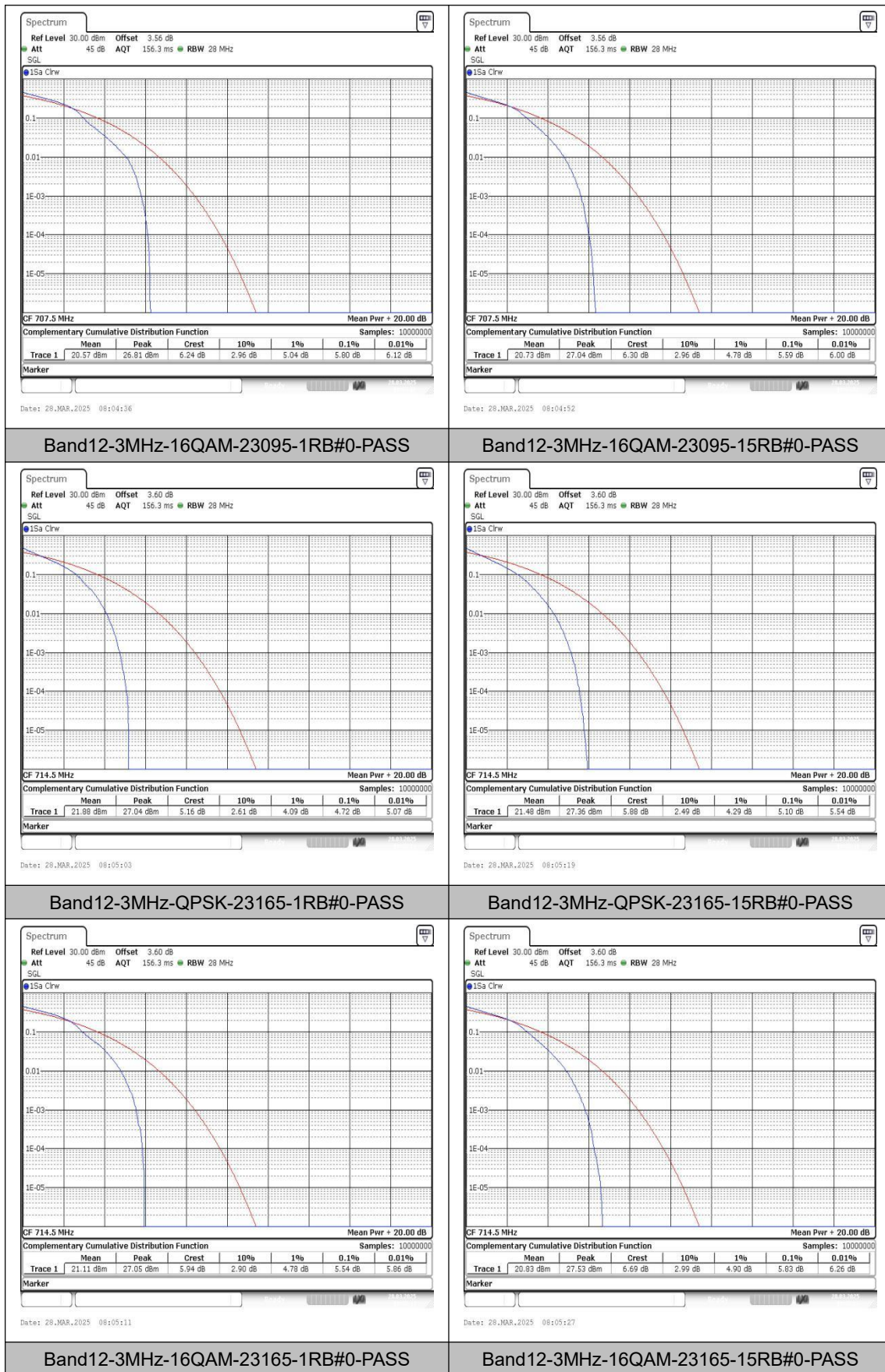
Band12	10MHz	QPSK	23060	1RB#0	4.55	13	PASS
Band12	10MHz	QPSK	23060	50RB#0	5.22	13	PASS
Band12	10MHz	16QAM	23060	1RB#0	5.07	13	PASS
Band12	10MHz	16QAM	23060	50RB#0	5.88	13	PASS
Band12	10MHz	QPSK	23095	1RB#0	5.04	13	PASS
Band12	10MHz	QPSK	23095	50RB#0	5.01	13	PASS
Band12	10MHz	16QAM	23095	1RB#0	5.65	13	PASS
Band12	10MHz	16QAM	23095	50RB#0	5.80	13	PASS
Band12	10MHz	QPSK	23130	1RB#0	4.93	13	PASS
Band12	10MHz	QPSK	23130	50RB#0	5.13	13	PASS
Band12	10MHz	16QAM	23130	1RB#0	5.77	13	PASS
Band12	10MHz	16QAM	23130	50RB#0	5.86	13	PASS

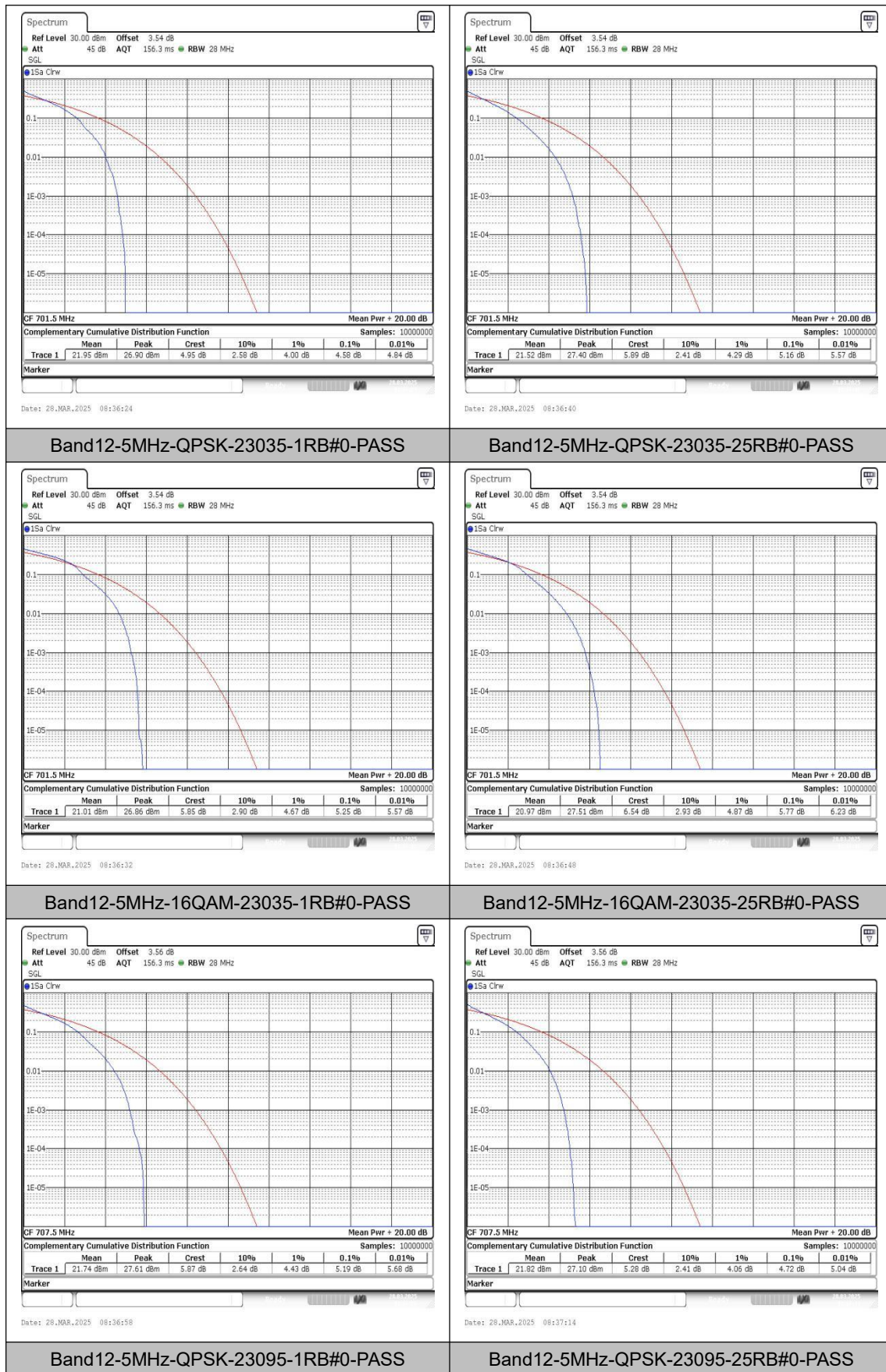
Test Graphs

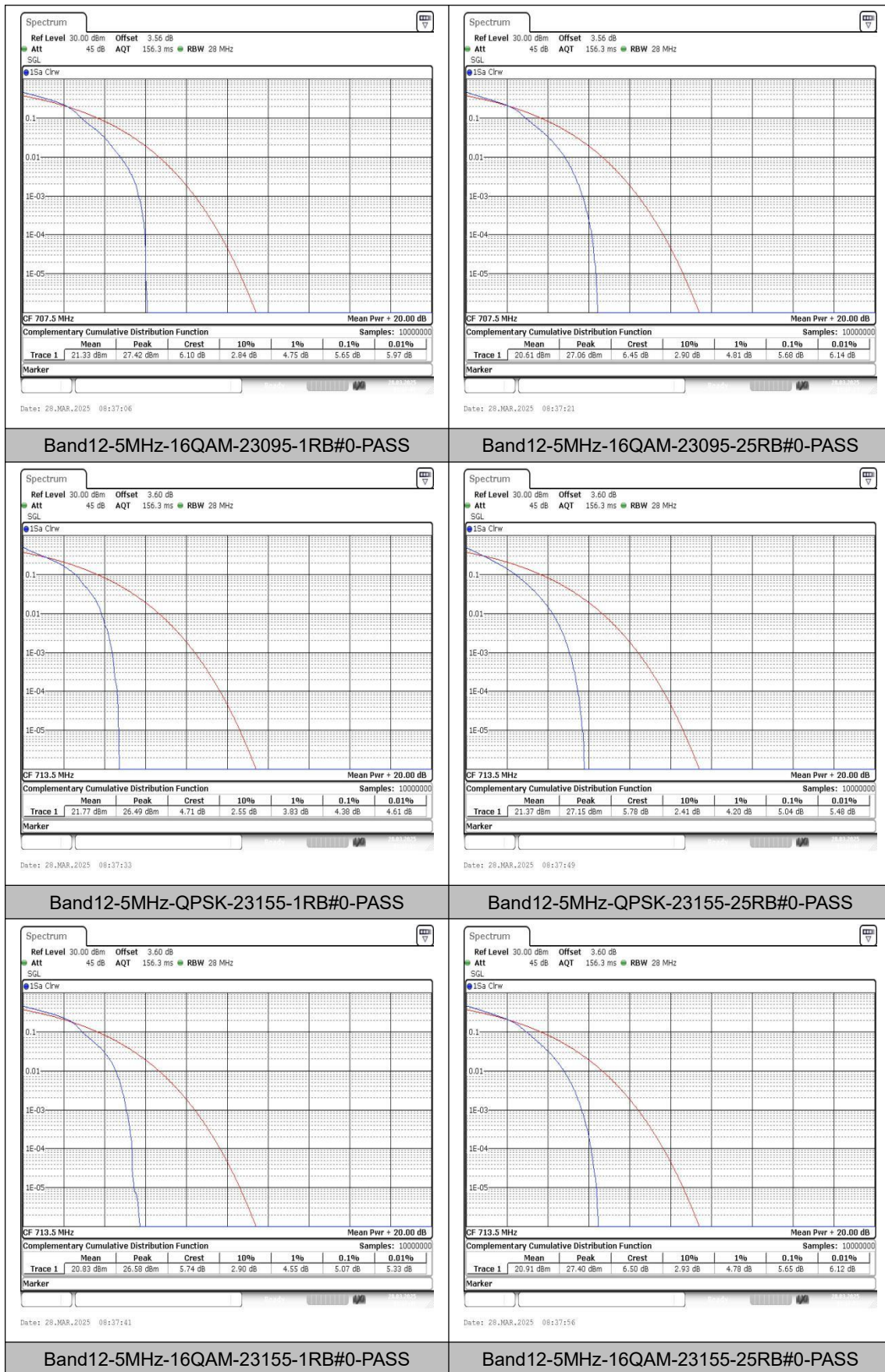


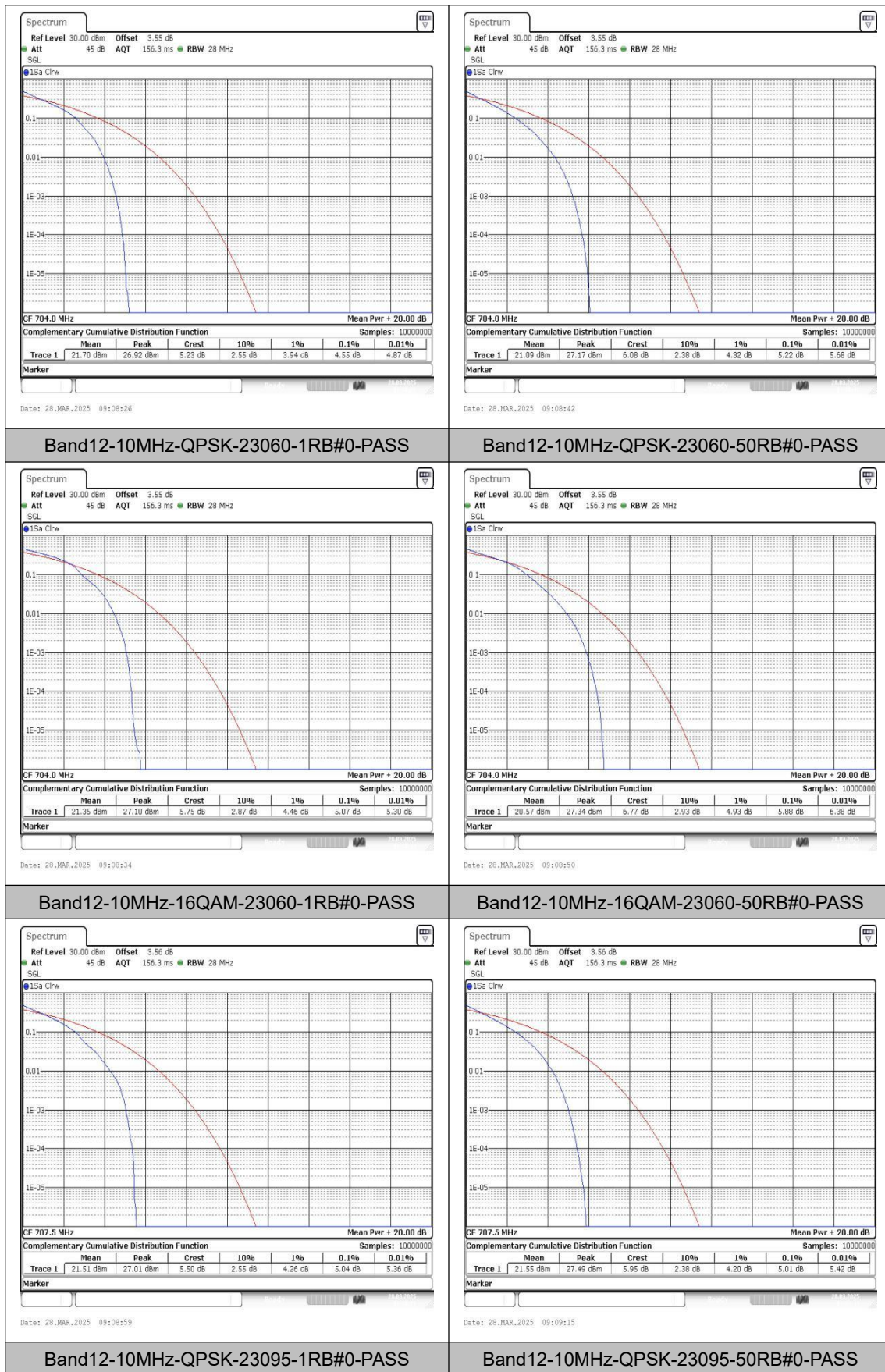


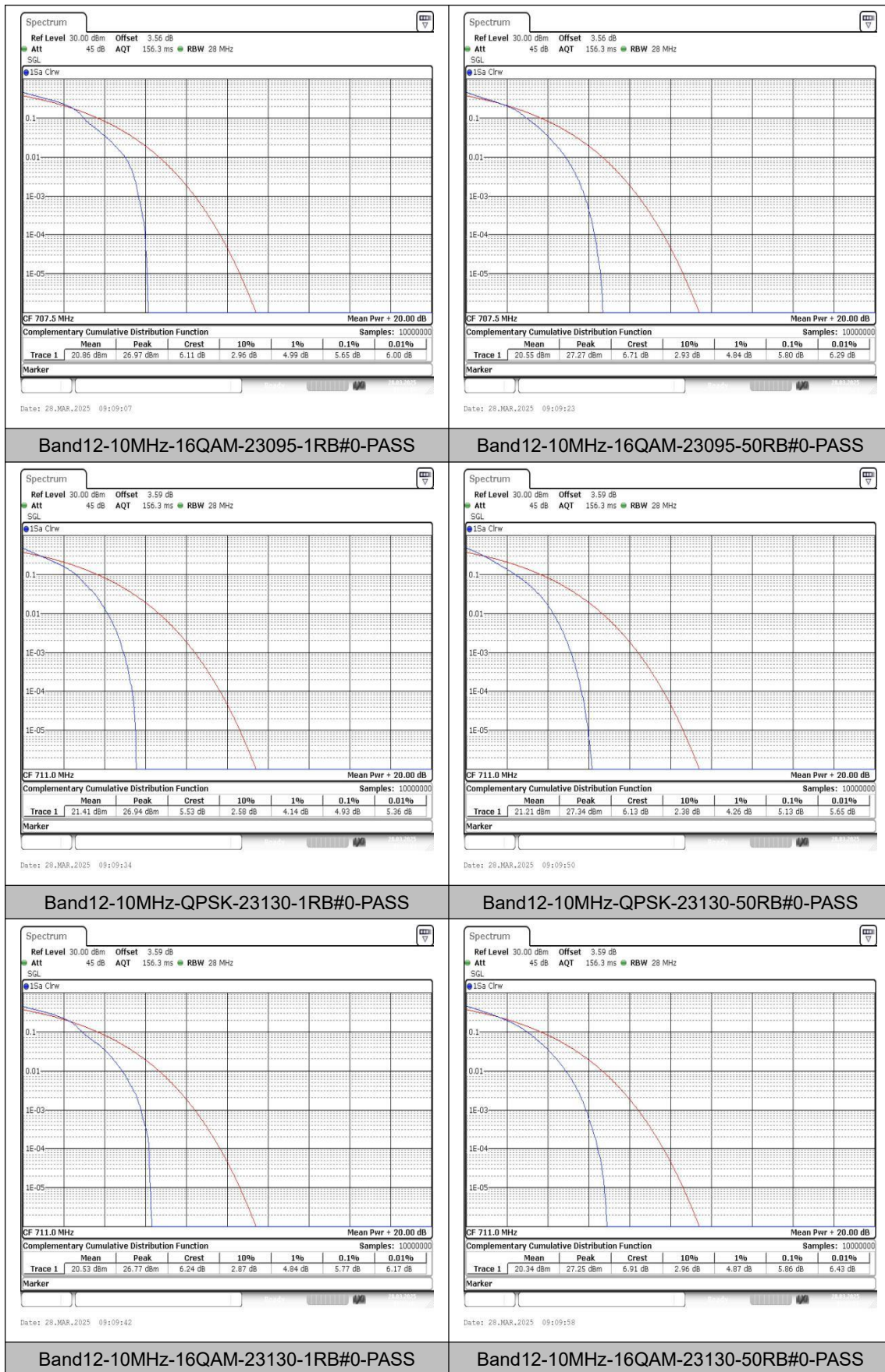












Appendix C: 26dB Bandwidth and Occupied Bandwidth

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band12	1.4MHz	QPSK	23017	6RB#0	1.088	1.26	PASS
Band12	1.4MHz	16QAM	23017	6RB#0	1.103	1.26	PASS
Band12	1.4MHz	QPSK	23095	6RB#0	1.098	1.26	PASS
Band12	1.4MHz	16QAM	23095	6RB#0	1.098	1.26	PASS
Band12	1.4MHz	QPSK	23173	6RB#0	1.093	1.25	PASS
Band12	1.4MHz	16QAM	23173	6RB#0	1.103	1.26	PASS
Band12	3MHz	QPSK	23025	15RB#0	2.705	3.02	PASS
Band12	3MHz	16QAM	23025	15RB#0	2.705	3.05	PASS
Band12	3MHz	QPSK	23095	15RB#0	2.696	3.03	PASS
Band12	3MHz	16QAM	23095	15RB#0	2.705	3.04	PASS
Band12	3MHz	QPSK	23165	15RB#0	2.715	3.03	PASS
Band12	3MHz	16QAM	23165	15RB#0	2.696	3.05	PASS
Band12	5MHz	QPSK	23035	25RB#0	4.496	5.00	PASS
Band12	5MHz	16QAM	23035	25RB#0	4.496	4.99	PASS
Band12	5MHz	QPSK	23095	25RB#0	4.505	4.98	PASS
Band12	5MHz	16QAM	23095	25RB#0	4.515	5.00	PASS
Band12	5MHz	QPSK	23155	25RB#0	4.496	4.98	PASS
Band12	5MHz	16QAM	23155	25RB#0	4.496	4.97	PASS
Band12	10MHz	QPSK	23060	50RB#0	8.985	9.97	PASS
Band12	10MHz	16QAM	23060	50RB#0	8.985	9.93	PASS
Band12	10MHz	QPSK	23095	50RB#0	9.052	10.03	PASS
Band12	10MHz	16QAM	23095	50RB#0	9.018	10.00	PASS
Band12	10MHz	QPSK	23130	50RB#0	8.985	9.90	PASS
Band12	10MHz	16QAM	23130	50RB#0	8.985	9.97	PASS

Test Graphs

