

Appendix for BAND 12

Product Name: Smart phone

Model No: Black 5

Appendix A: Average Power Output Data

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band12	1.4MHz	QPSK	23017	1RB#0	23.61	PASS
Band12	1.4MHz	16QAM	23017	1RB#0	22.51	PASS
Band12	1.4MHz	QPSK	23017	1RB#2	23.54	PASS
Band12	1.4MHz	16QAM	23017	1RB#2	22.54	PASS
Band12	1.4MHz	QPSK	23017	1RB#5	23.56	PASS
Band12	1.4MHz	16QAM	23017	1RB#5	22.48	PASS
Band12	1.4MHz	QPSK	23017	3RB#0	23.58	PASS
Band12	1.4MHz	16QAM	23017	3RB#0	22.40	PASS
Band12	1.4MHz	QPSK	23017	3RB#1	23.56	PASS
Band12	1.4MHz	16QAM	23017	3RB#1	22.39	PASS
Band12	1.4MHz	QPSK	23017	3RB#3	23.55	PASS
Band12	1.4MHz	16QAM	23017	3RB#3	22.39	PASS
Band12	1.4MHz	QPSK	23017	6RB#0	22.61	PASS
Band12	1.4MHz	16QAM	23017	6RB#0	21.64	PASS
Band12	1.4MHz	QPSK	23095	1RB#0	23.72	PASS
Band12	1.4MHz	16QAM	23095	1RB#0	22.55	PASS
Band12	1.4MHz	QPSK	23095	1RB#2	23.66	PASS
Band12	1.4MHz	16QAM	23095	1RB#2	22.55	PASS
Band12	1.4MHz	QPSK	23095	1RB#5	23.72	PASS
Band12	1.4MHz	16QAM	23095	1RB#5	22.57	PASS
Band12	1.4MHz	QPSK	23095	3RB#0	23.71	PASS
Band12	1.4MHz	16QAM	23095	3RB#0	22.48	PASS
Band12	1.4MHz	QPSK	23095	3RB#1	23.66	PASS
Band12	1.4MHz	16QAM	23095	3RB#1	22.52	PASS
Band12	1.4MHz	QPSK	23095	3RB#3	23.74	PASS
Band12	1.4MHz	16QAM	23095	3RB#3	22.51	PASS
Band12	1.4MHz	QPSK	23095	6RB#0	22.66	PASS
Band12	1.4MHz	16QAM	23095	6RB#0	21.50	PASS
Band12	1.4MHz	QPSK	23173	1RB#0	23.64	PASS
Band12	1.4MHz	16QAM	23173	1RB#0	22.56	PASS
Band12	1.4MHz	QPSK	23173	1RB#2	23.55	PASS
Band12	1.4MHz	16QAM	23173	1RB#2	22.54	PASS
Band12	1.4MHz	QPSK	23173	1RB#5	23.61	PASS
Band12	1.4MHz	16QAM	23173	1RB#5	22.57	PASS
Band12	1.4MHz	QPSK	23173	3RB#0	23.66	PASS
Band12	1.4MHz	16QAM	23173	3RB#0	22.53	PASS

Band12	1.4MHz	QPSK	23173	3RB#1	23.64	PASS
Band12	1.4MHz	16QAM	23173	3RB#1	22.52	PASS
Band12	1.4MHz	QPSK	23173	3RB#3	23.61	PASS
Band12	1.4MHz	16QAM	23173	3RB#3	22.48	PASS
Band12	1.4MHz	QPSK	23173	6RB#0	22.66	PASS
Band12	1.4MHz	16QAM	23173	6RB#0	21.71	PASS
Band12	3MHz	QPSK	23025	1RB#0	23.67	PASS
Band12	3MHz	16QAM	23025	1RB#0	22.60	PASS
Band12	3MHz	QPSK	23025	1RB#8	23.66	PASS
Band12	3MHz	16QAM	23025	1RB#8	22.62	PASS
Band12	3MHz	QPSK	23025	1RB#14	23.74	PASS
Band12	3MHz	16QAM	23025	1RB#14	22.71	PASS
Band12	3MHz	QPSK	23025	8RB#0	22.65	PASS
Band12	3MHz	16QAM	23025	8RB#0	21.66	PASS
Band12	3MHz	QPSK	23025	8RB#4	22.63	PASS
Band12	3MHz	16QAM	23025	8RB#4	21.63	PASS
Band12	3MHz	QPSK	23025	8RB#7	22.66	PASS
Band12	3MHz	16QAM	23025	8RB#7	21.67	PASS
Band12	3MHz	QPSK	23025	15RB#0	22.67	PASS
Band12	3MHz	16QAM	23025	15RB#0	21.67	PASS
Band12	3MHz	QPSK	23095	1RB#0	23.70	PASS
Band12	3MHz	16QAM	23095	1RB#0	22.58	PASS
Band12	3MHz	QPSK	23095	1RB#8	23.69	PASS
Band12	3MHz	16QAM	23095	1RB#8	22.52	PASS
Band12	3MHz	QPSK	23095	1RB#14	23.70	PASS
Band12	3MHz	16QAM	23095	1RB#14	22.49	PASS
Band12	3MHz	QPSK	23095	8RB#0	22.66	PASS
Band12	3MHz	16QAM	23095	8RB#0	21.65	PASS
Band12	3MHz	QPSK	23095	8RB#4	22.64	PASS
Band12	3MHz	16QAM	23095	8RB#4	21.62	PASS
Band12	3MHz	QPSK	23095	8RB#7	22.64	PASS
Band12	3MHz	16QAM	23095	8RB#7	21.60	PASS
Band12	3MHz	QPSK	23095	15RB#0	22.68	PASS
Band12	3MHz	16QAM	23095	15RB#0	21.54	PASS
Band12	3MHz	QPSK	23165	1RB#0	23.68	PASS
Band12	3MHz	16QAM	23165	1RB#0	22.62	PASS
Band12	3MHz	QPSK	23165	1RB#8	23.71	PASS
Band12	3MHz	16QAM	23165	1RB#8	22.64	PASS
Band12	3MHz	QPSK	23165	1RB#14	23.64	PASS
Band12	3MHz	16QAM	23165	1RB#14	22.68	PASS
Band12	3MHz	QPSK	23165	8RB#0	22.66	PASS
Band12	3MHz	16QAM	23165	8RB#0	21.68	PASS

Band12	3MHz	QPSK	23165	8RB#4	22.68	PASS
Band12	3MHz	16QAM	23165	8RB#4	21.69	PASS
Band12	3MHz	QPSK	23165	8RB#7	22.66	PASS
Band12	3MHz	16QAM	23165	8RB#7	21.66	PASS
Band12	3MHz	QPSK	23165	15RB#0	22.66	PASS
Band12	3MHz	16QAM	23165	15RB#0	21.63	PASS
Band12	5MHz	QPSK	23035	1RB#0	23.86	PASS
Band12	5MHz	16QAM	23035	1RB#0	22.69	PASS
Band12	5MHz	QPSK	23035	1RB#12	23.90	PASS
Band12	5MHz	16QAM	23035	1RB#12	22.70	PASS
Band12	5MHz	QPSK	23035	1RB#24	23.82	PASS
Band12	5MHz	16QAM	23035	1RB#24	22.66	PASS
Band12	5MHz	QPSK	23035	12RB#0	22.72	PASS
Band12	5MHz	16QAM	23035	12RB#0	21.71	PASS
Band12	5MHz	QPSK	23035	12RB#6	22.73	PASS
Band12	5MHz	16QAM	23035	12RB#6	21.72	PASS
Band12	5MHz	QPSK	23035	12RB#13	22.66	PASS
Band12	5MHz	16QAM	23035	12RB#13	21.68	PASS
Band12	5MHz	QPSK	23035	25RB#0	22.73	PASS
Band12	5MHz	16QAM	23035	25RB#0	21.71	PASS
Band12	5MHz	QPSK	23095	1RB#0	23.82	PASS
Band12	5MHz	16QAM	23095	1RB#0	22.81	PASS
Band12	5MHz	QPSK	23095	1RB#12	23.82	PASS
Band12	5MHz	16QAM	23095	1RB#12	22.76	PASS
Band12	5MHz	QPSK	23095	1RB#24	23.75	PASS
Band12	5MHz	16QAM	23095	1RB#24	22.80	PASS
Band12	5MHz	QPSK	23095	12RB#0	22.71	PASS
Band12	5MHz	16QAM	23095	12RB#0	21.78	PASS
Band12	5MHz	QPSK	23095	12RB#6	22.70	PASS
Band12	5MHz	16QAM	23095	12RB#6	21.78	PASS
Band12	5MHz	QPSK	23095	12RB#13	22.66	PASS
Band12	5MHz	16QAM	23095	12RB#13	21.76	PASS
Band12	5MHz	QPSK	23095	25RB#0	22.72	PASS
Band12	5MHz	16QAM	23095	25RB#0	21.69	PASS
Band12	5MHz	QPSK	23155	1RB#0	23.75	PASS
Band12	5MHz	16QAM	23155	1RB#0	22.71	PASS
Band12	5MHz	QPSK	23155	1RB#12	23.86	PASS
Band12	5MHz	16QAM	23155	1RB#12	22.68	PASS
Band12	5MHz	QPSK	23155	1RB#24	23.88	PASS
Band12	5MHz	16QAM	23155	1RB#24	22.69	PASS
Band12	5MHz	QPSK	23155	12RB#0	22.70	PASS
Band12	5MHz	16QAM	23155	12RB#0	21.70	PASS

Band12	5MHz	QPSK	23155	12RB#6	22.71	PASS
Band12	5MHz	16QAM	23155	12RB#6	21.71	PASS
Band12	5MHz	QPSK	23155	12RB#13	22.72	PASS
Band12	5MHz	16QAM	23155	12RB#13	21.73	PASS
Band12	5MHz	QPSK	23155	25RB#0	22.73	PASS
Band12	5MHz	16QAM	23155	25RB#0	21.73	PASS
Band12	10MHz	QPSK	23060	1RB#0	23.73	PASS
Band12	10MHz	16QAM	23060	1RB#0	22.68	PASS
Band12	10MHz	QPSK	23060	1RB#24	23.64	PASS
Band12	10MHz	16QAM	23060	1RB#24	22.61	PASS
Band12	10MHz	QPSK	23060	1RB#49	23.92	PASS
Band12	10MHz	16QAM	23060	1RB#49	22.77	PASS
Band12	10MHz	QPSK	23060	25RB#0	22.71	PASS
Band12	10MHz	16QAM	23060	25RB#0	21.66	PASS
Band12	10MHz	QPSK	23060	25RB#12	22.68	PASS
Band12	10MHz	16QAM	23060	25RB#12	21.64	PASS
Band12	10MHz	QPSK	23060	25RB#25	22.71	PASS
Band12	10MHz	16QAM	23060	25RB#25	21.66	PASS
Band12	10MHz	QPSK	23060	50RB#0	22.68	PASS
Band12	10MHz	16QAM	23060	50RB#0	21.66	PASS
Band12	10MHz	QPSK	23095	1RB#0	23.71	PASS
Band12	10MHz	16QAM	23095	1RB#0	22.58	PASS
Band12	10MHz	QPSK	23095	1RB#24	23.72	PASS
Band12	10MHz	16QAM	23095	1RB#24	22.55	PASS
Band12	10MHz	QPSK	23095	1RB#49	23.73	PASS
Band12	10MHz	16QAM	23095	1RB#49	22.58	PASS
Band12	10MHz	QPSK	23095	25RB#0	22.69	PASS
Band12	10MHz	16QAM	23095	25RB#0	21.67	PASS
Band12	10MHz	QPSK	23095	25RB#12	22.69	PASS
Band12	10MHz	16QAM	23095	25RB#12	21.66	PASS
Band12	10MHz	QPSK	23095	25RB#25	22.70	PASS
Band12	10MHz	16QAM	23095	25RB#25	21.70	PASS
Band12	10MHz	QPSK	23095	50RB#0	22.69	PASS
Band12	10MHz	16QAM	23095	50RB#0	21.71	PASS
Band12	10MHz	QPSK	23130	1RB#0	23.72	PASS
Band12	10MHz	16QAM	23130	1RB#0	22.50	PASS
Band12	10MHz	QPSK	23130	1RB#24	23.67	PASS
Band12	10MHz	16QAM	23130	1RB#24	22.42	PASS
Band12	10MHz	QPSK	23130	1RB#49	23.64	PASS
Band12	10MHz	16QAM	23130	1RB#49	22.47	PASS
Band12	10MHz	QPSK	23130	25RB#0	22.70	PASS
Band12	10MHz	16QAM	23130	25RB#0	21.70	PASS

Band12	10MHz	QPSK	23130	25RB#12	22.68	PASS
Band12	10MHz	16QAM	23130	25RB#12	21.69	PASS
Band12	10MHz	QPSK	23130	25RB#25	22.69	PASS
Band12	10MHz	16QAM	23130	25RB#25	21.68	PASS
Band12	10MHz	QPSK	23130	50RB#0	22.66	PASS
Band12	10MHz	16QAM	23130	50RB#0	21.66	PASS

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

Test Result

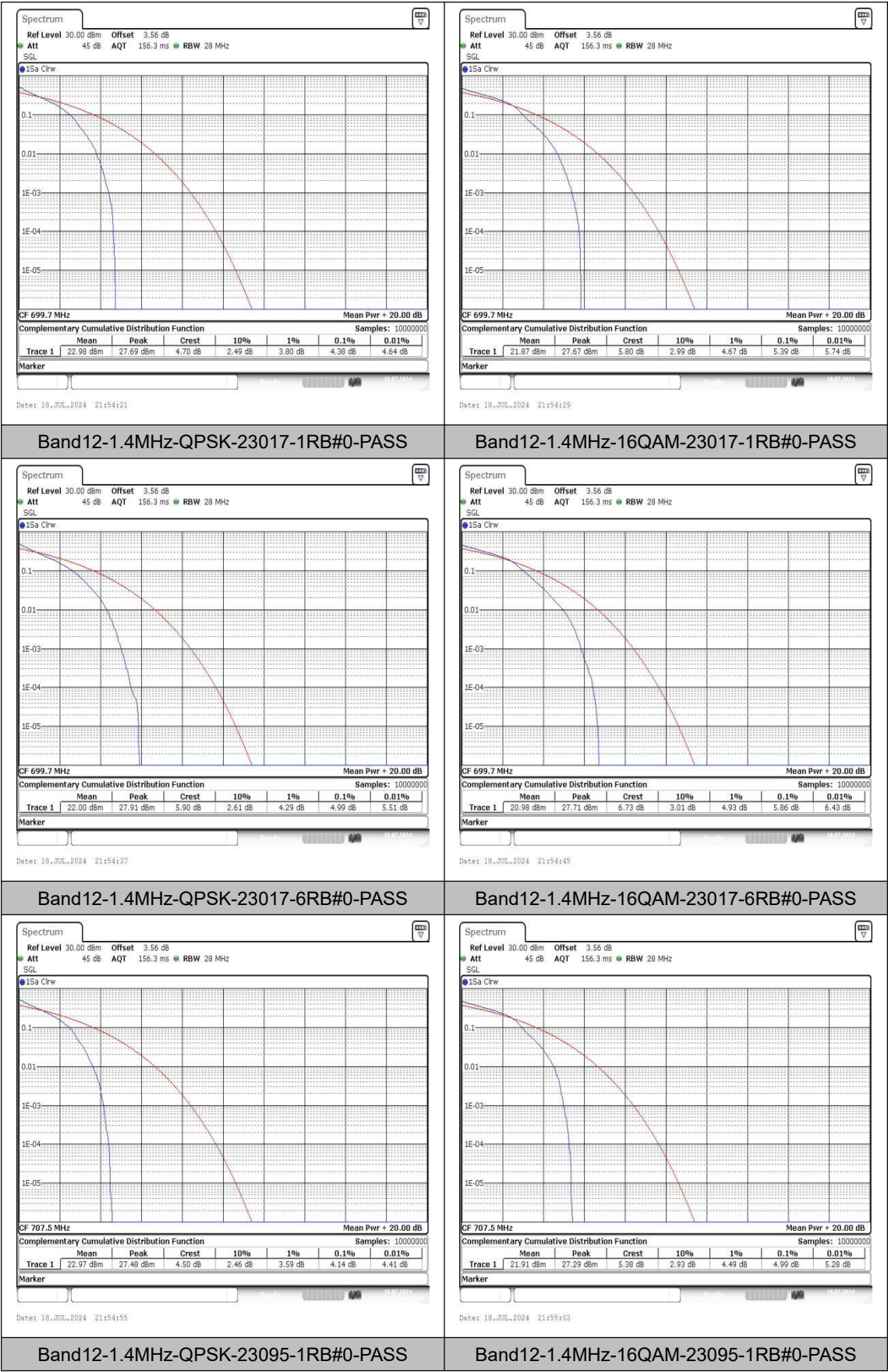
Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band12	1.4MHz	QPSK	23017	1RB#0	4.38	13	PASS
Band12	1.4MHz	16QAM	23017	1RB#0	5.39	13	PASS
Band12	1.4MHz	QPSK	23017	6RB#0	4.99	13	PASS
Band12	1.4MHz	16QAM	23017	6RB#0	5.86	13	PASS
Band12	1.4MHz	QPSK	23095	1RB#0	4.14	13	PASS
Band12	1.4MHz	16QAM	23095	1RB#0	4.99	13	PASS
Band12	1.4MHz	QPSK	23095	6RB#0	4.75	13	PASS
Band12	1.4MHz	16QAM	23095	6RB#0	5.65	13	PASS
Band12	1.4MHz	QPSK	23173	1RB#0	4.23	13	PASS
Band12	1.4MHz	16QAM	23173	1RB#0	5.25	13	PASS
Band12	1.4MHz	QPSK	23173	6RB#0	4.75	13	PASS
Band12	1.4MHz	16QAM	23173	6RB#0	5.62	13	PASS
Band12	3MHz	QPSK	23025	1RB#0	4.35	13	PASS
Band12	3MHz	16QAM	23025	1RB#0	5.28	13	PASS
Band12	3MHz	QPSK	23025	15RB#0	5.07	13	PASS
Band12	3MHz	16QAM	23025	15RB#0	5.94	13	PASS
Band12	3MHz	QPSK	23095	1RB#0	4.09	13	PASS
Band12	3MHz	16QAM	23095	1RB#0	4.96	13	PASS
Band12	3MHz	QPSK	23095	15RB#0	4.75	13	PASS
Band12	3MHz	16QAM	23095	15RB#0	5.62	13	PASS
Band12	3MHz	QPSK	23165	1RB#0	4.35	13	PASS
Band12	3MHz	16QAM	23165	1RB#0	5.28	13	PASS
Band12	3MHz	QPSK	23165	15RB#0	4.93	13	PASS
Band12	3MHz	16QAM	23165	15RB#0	5.80	13	PASS
Band12	5MHz	QPSK	23035	1RB#0	4.41	13	PASS
Band12	5MHz	16QAM	23035	1RB#0	5.13	13	PASS
Band12	5MHz	QPSK	23035	25RB#0	5.04	13	PASS
Band12	5MHz	16QAM	23035	25RB#0	5.88	13	PASS
Band12	5MHz	QPSK	23095	1RB#0	4.17	13	PASS
Band12	5MHz	16QAM	23095	1RB#0	4.96	13	PASS
Band12	5MHz	QPSK	23095	25RB#0	4.75	13	PASS
Band12	5MHz	16QAM	23095	25RB#0	5.59	13	PASS
Band12	5MHz	QPSK	23155	1RB#0	4.29	13	PASS
Band12	5MHz	16QAM	23155	1RB#0	5.01	13	PASS
Band12	5MHz	QPSK	23155	25RB#0	4.99	13	PASS
Band12	5MHz	16QAM	23155	25RB#0	5.77	13	PASS
Band12	10MHz	QPSK	23060	1RB#0	4.38	13	PASS

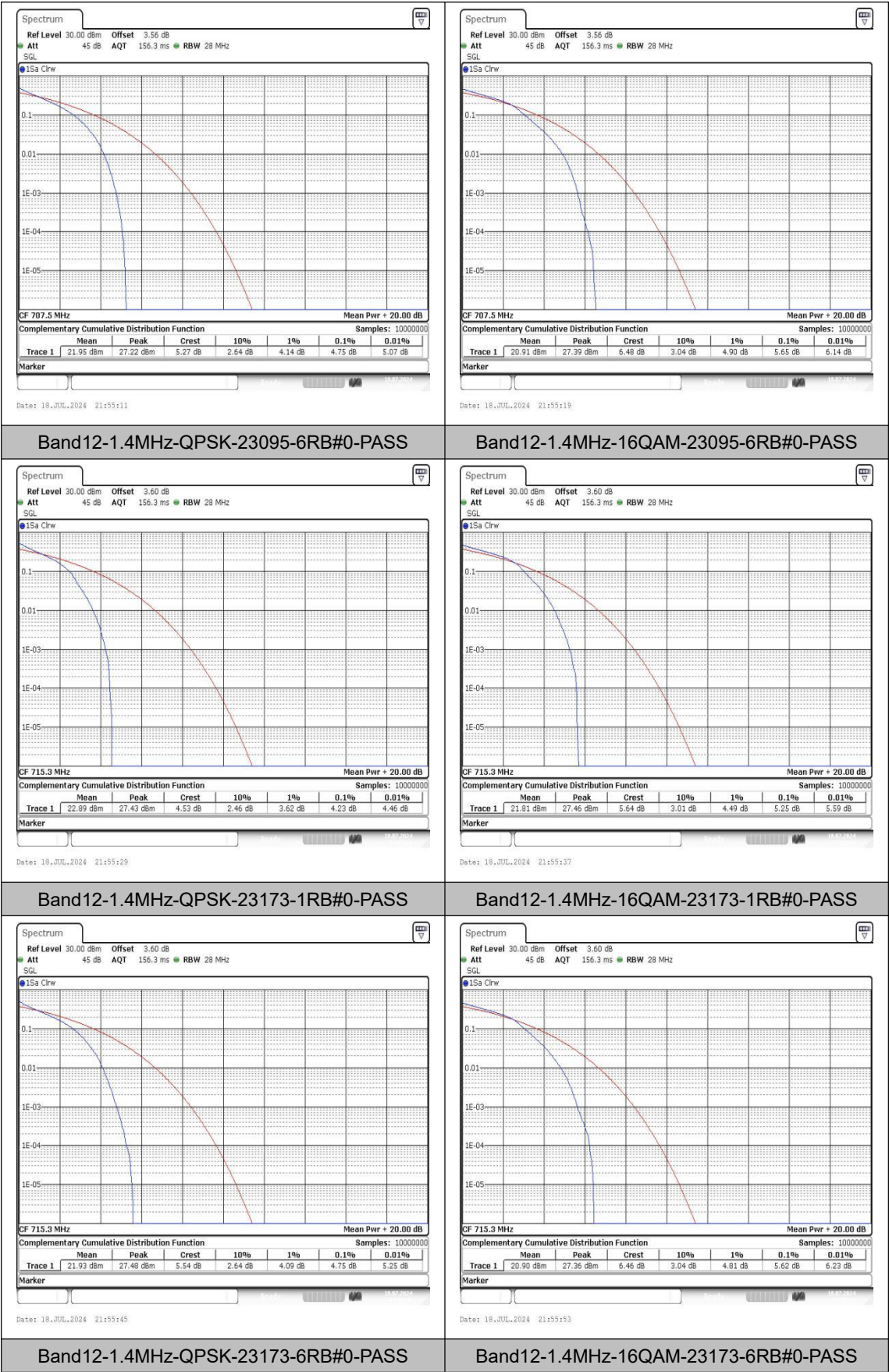
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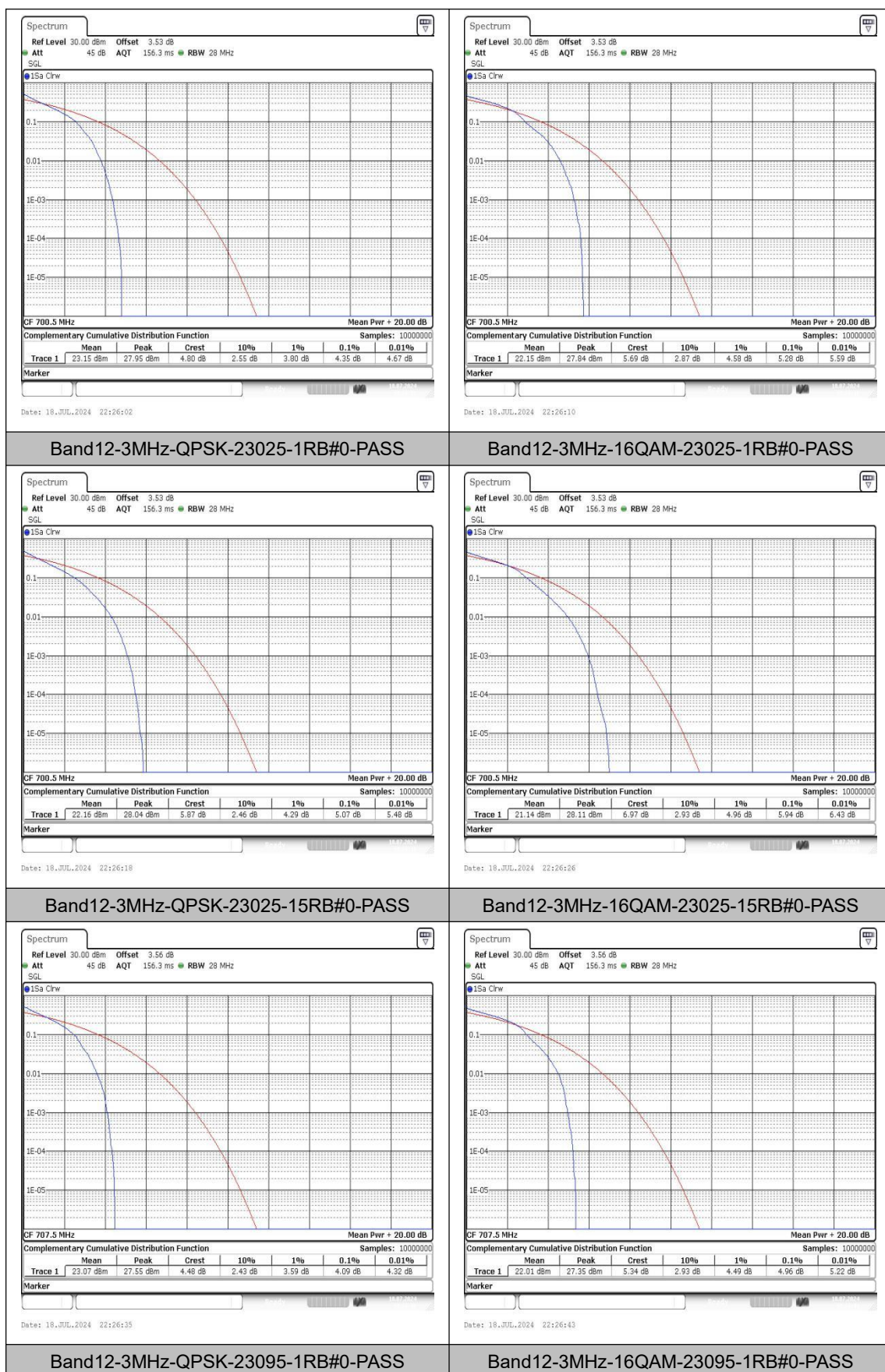
<http://www.waltek.com.cn>

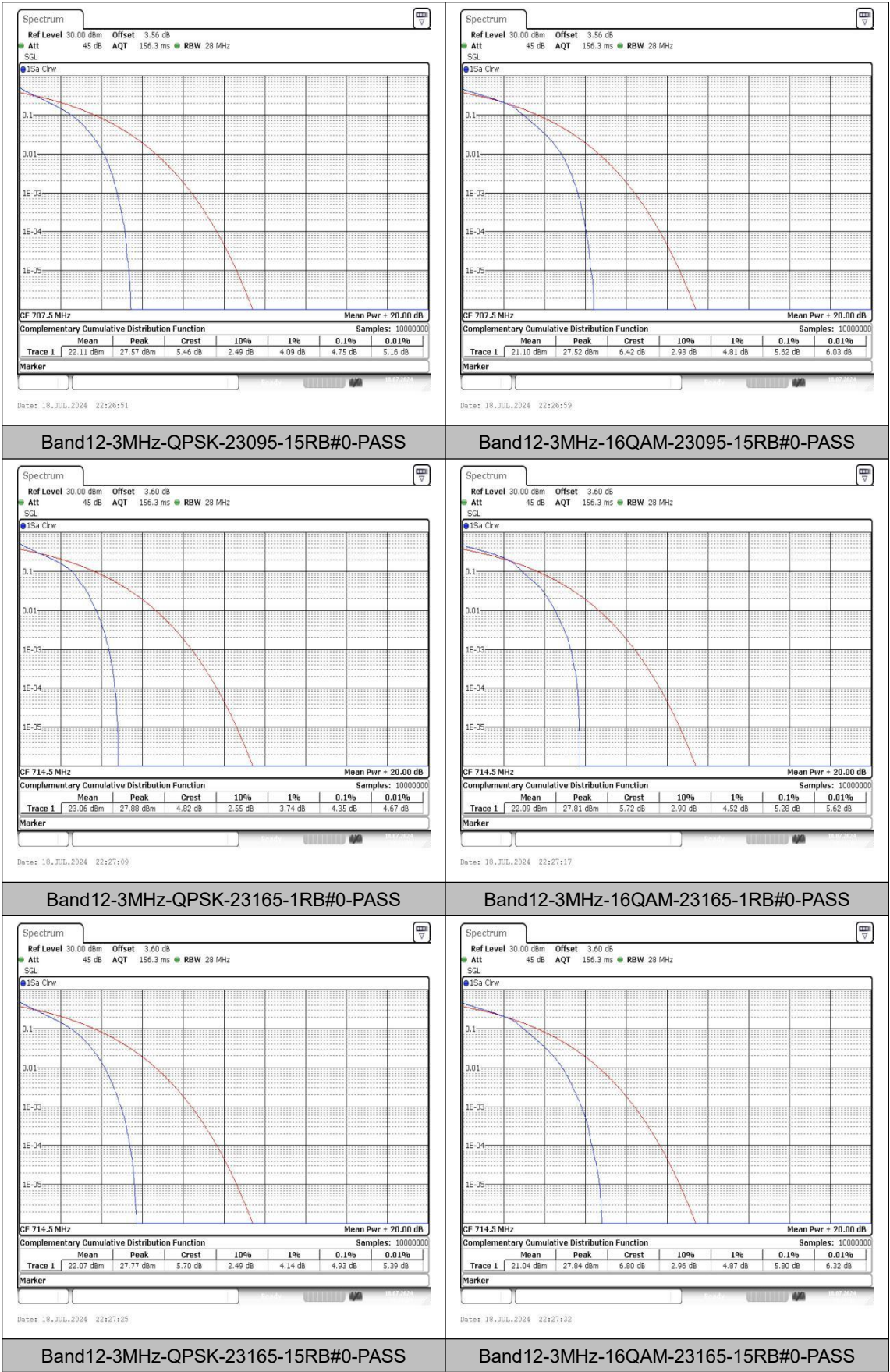
Band12	10MHz	16QAM	23060	1RB#0	5.30	13	PASS
Band12	10MHz	QPSK	23060	50RB#0	4.99	13	PASS
Band12	10MHz	16QAM	23060	50RB#0	5.83	13	PASS
Band12	10MHz	QPSK	23095	1RB#0	4.38	13	PASS
Band12	10MHz	16QAM	23095	1RB#0	5.22	13	PASS
Band12	10MHz	QPSK	23095	50RB#0	4.96	13	PASS
Band12	10MHz	16QAM	23095	50RB#0	5.80	13	PASS
Band12	10MHz	QPSK	23130	1RB#0	4.12	13	PASS
Band12	10MHz	16QAM	23130	1RB#0	5.01	13	PASS
Band12	10MHz	QPSK	23130	50RB#0	5.01	13	PASS
Band12	10MHz	16QAM	23130	50RB#0	5.83	13	PASS

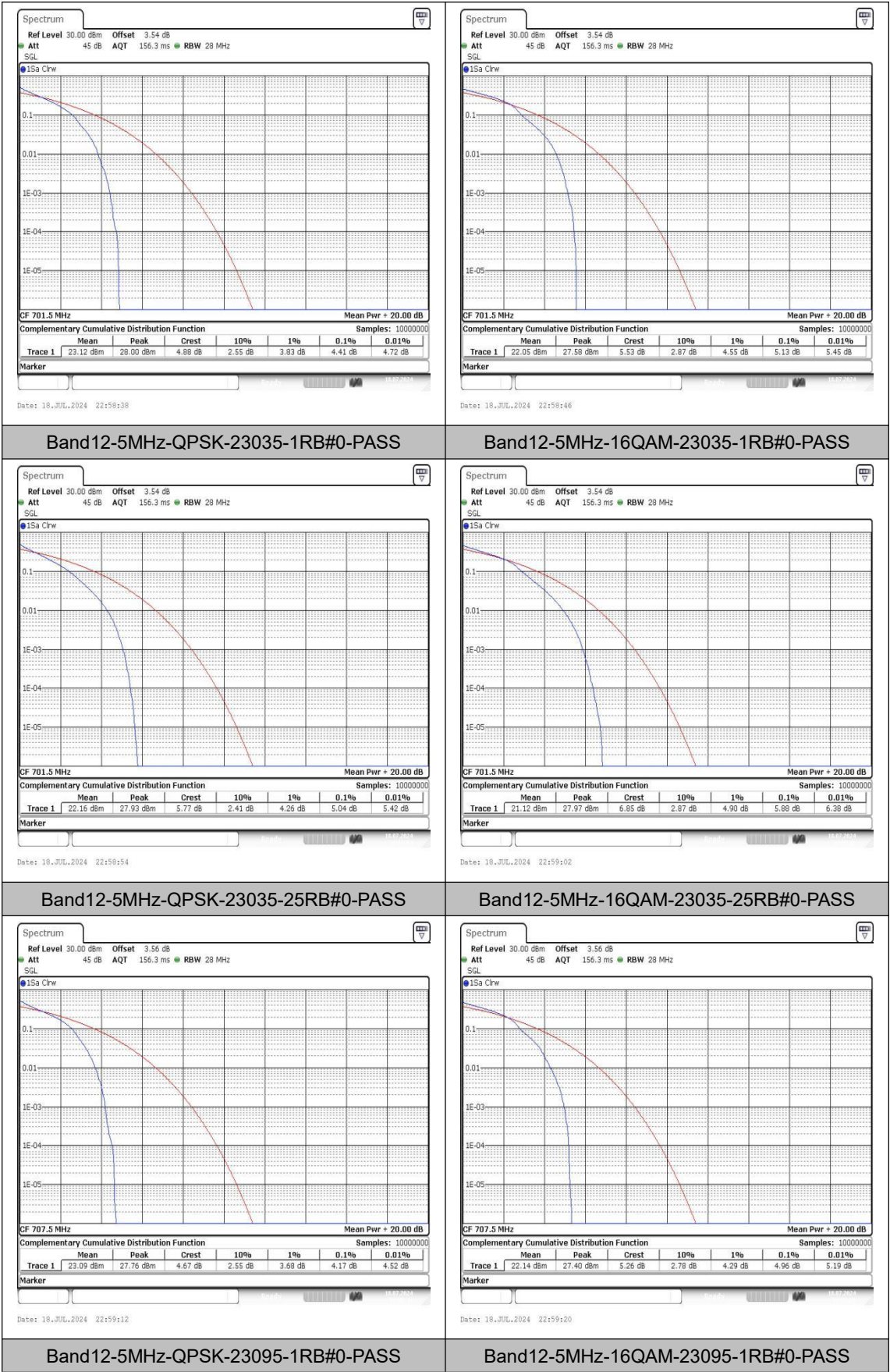
Test Graphs

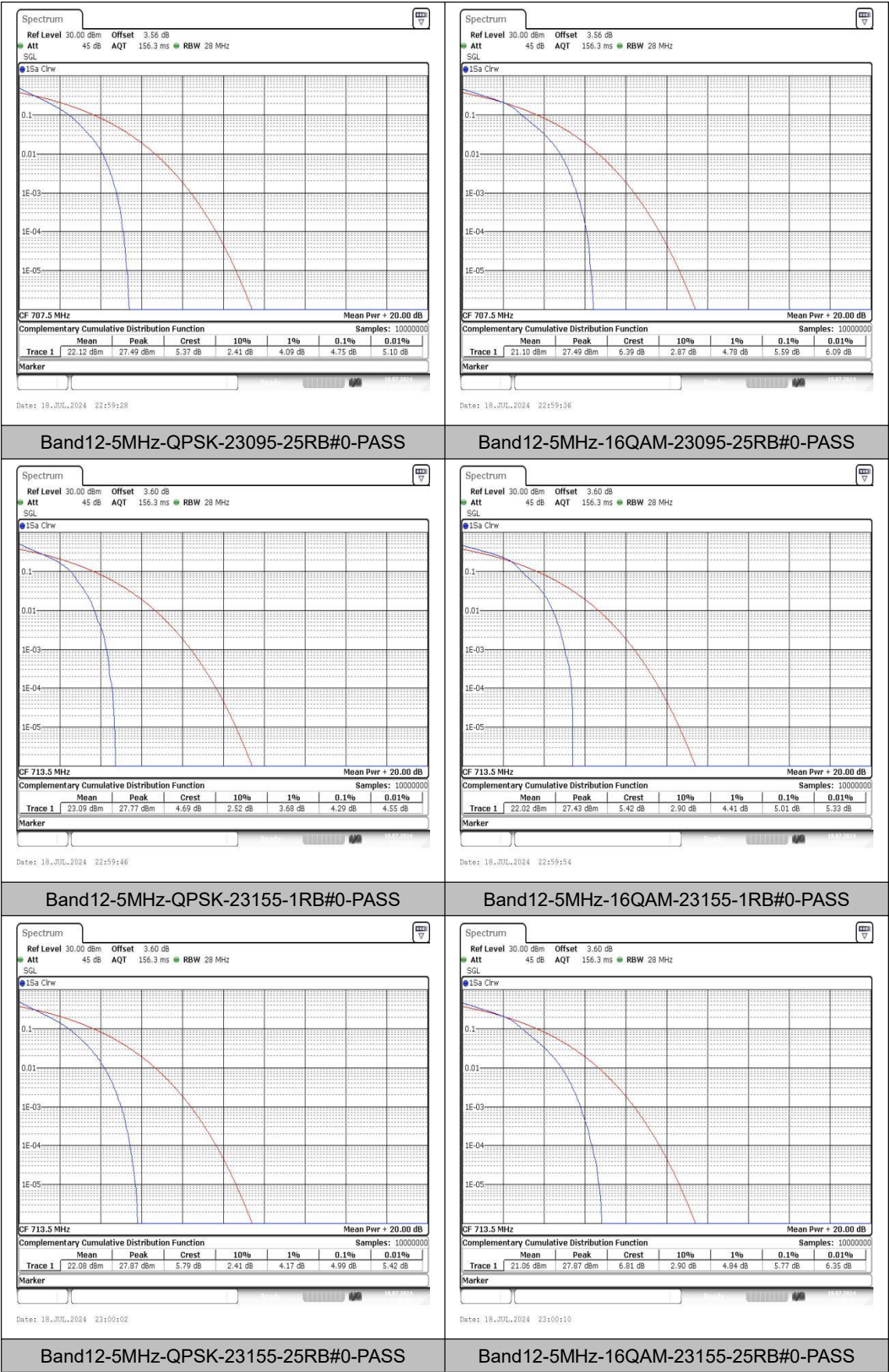


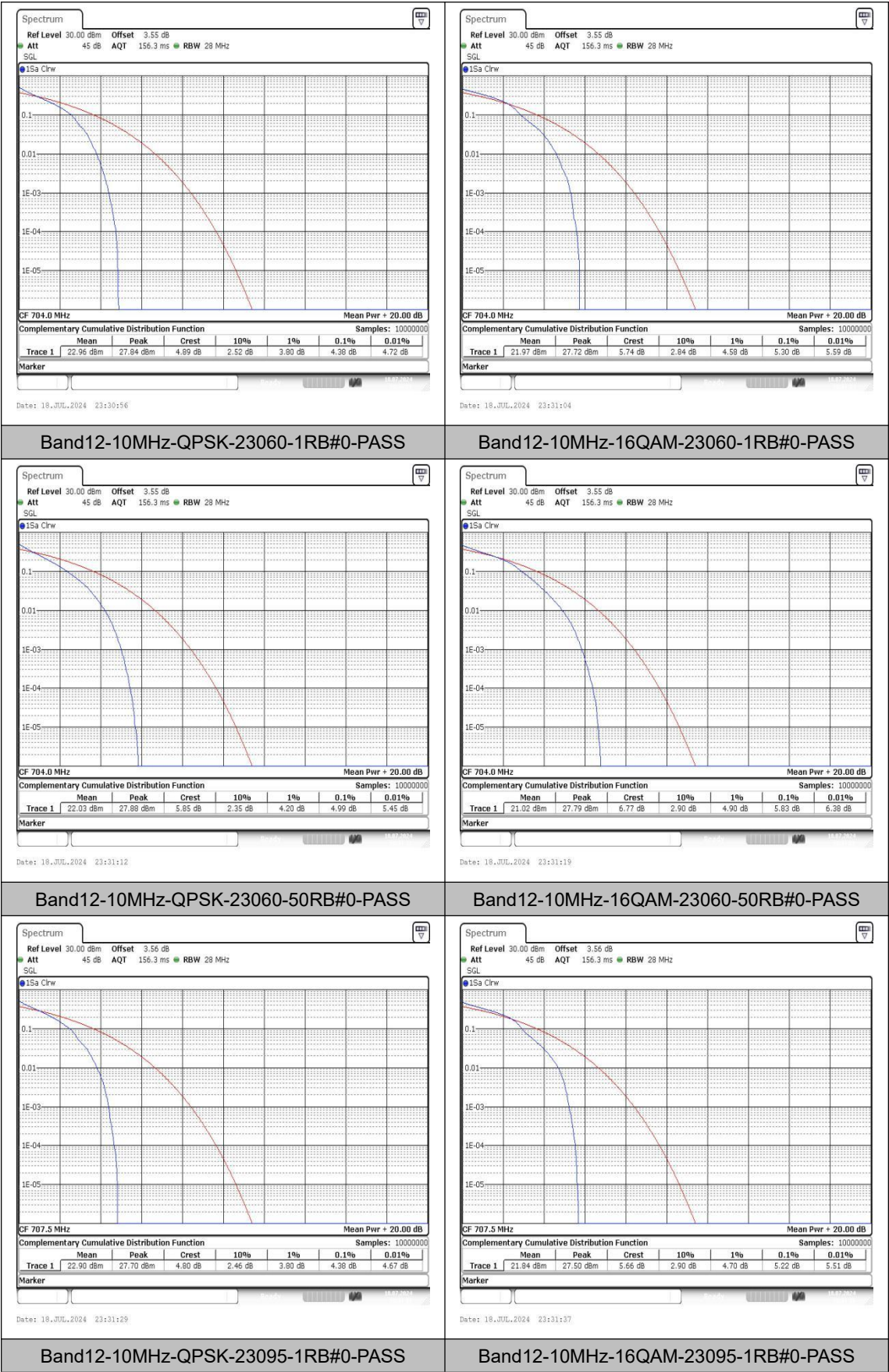


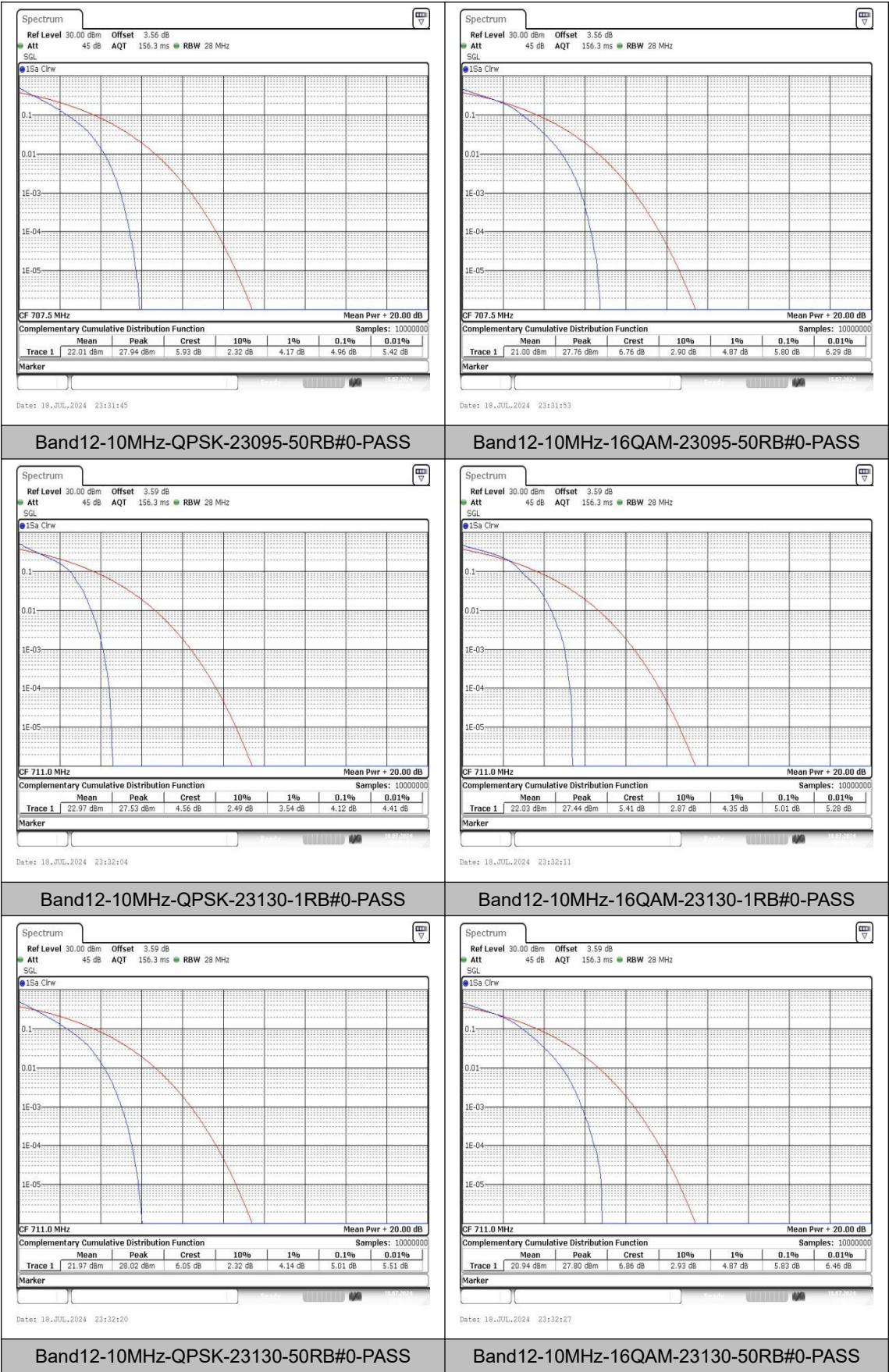










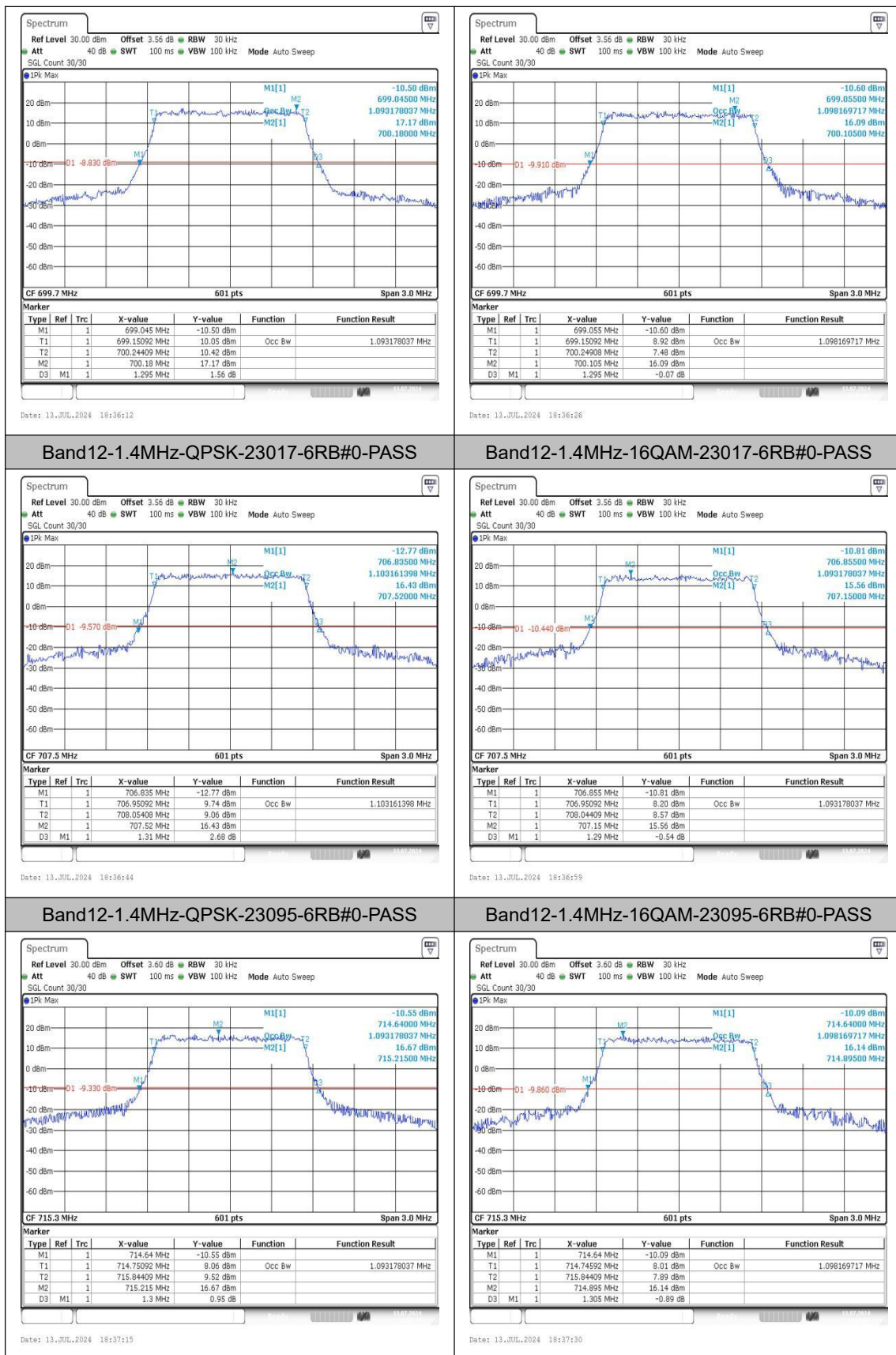


Appendix C: 26dB Bandwidth and Occupied Bandwidth

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band12	1.4MHz	QPSK	23017	6RB#0	1.093	1.29	PASS
Band12	1.4MHz	16QAM	23017	6RB#0	1.098	1.29	PASS
Band12	1.4MHz	QPSK	23095	6RB#0	1.103	1.31	PASS
Band12	1.4MHz	16QAM	23095	6RB#0	1.093	1.29	PASS
Band12	1.4MHz	QPSK	23173	6RB#0	1.093	1.30	PASS
Band12	1.4MHz	16QAM	23173	6RB#0	1.098	1.30	PASS
Band12	3MHz	QPSK	23025	15RB#0	2.696	2.95	PASS
Band12	3MHz	16QAM	23025	15RB#0	2.686	2.94	PASS
Band12	3MHz	QPSK	23095	15RB#0	2.696	2.94	PASS
Band12	3MHz	16QAM	23095	15RB#0	2.696	2.94	PASS
Band12	3MHz	QPSK	23165	15RB#0	2.696	2.95	PASS
Band12	3MHz	16QAM	23165	15RB#0	2.696	2.96	PASS
Band12	5MHz	QPSK	23035	25RB#0	4.505	5.00	PASS
Band12	5MHz	16QAM	23035	25RB#0	4.486	4.97	PASS
Band12	5MHz	QPSK	23095	25RB#0	4.496	5.03	PASS
Band12	5MHz	16QAM	23095	25RB#0	4.505	5.17	PASS
Band12	5MHz	QPSK	23155	25RB#0	4.496	5.22	PASS
Band12	5MHz	16QAM	23155	25RB#0	4.496	5.25	PASS
Band12	10MHz	QPSK	23060	50RB#0	8.985	9.90	PASS
Band12	10MHz	16QAM	23060	50RB#0	8.985	9.87	PASS
Band12	10MHz	QPSK	23095	50RB#0	8.985	9.90	PASS
Band12	10MHz	16QAM	23095	50RB#0	8.985	9.90	PASS
Band12	10MHz	QPSK	23130	50RB#0	8.985	9.93	PASS
Band12	10MHz	16QAM	23130	50RB#0	8.985	9.83	PASS

Test Graphs



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