

Appendix for BAND 5

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
Band5	1.4MHz	QPSK	20407	1RB#0	23.39	PASS
Band5	1.4MHz	16QAM	20407	1RB#0	22.18	PASS
Band5	1.4MHz	QPSK	20407	1RB#2	23.29	PASS
Band5	1.4MHz	16QAM	20407	1RB#2	22.16	PASS
Band5	1.4MHz	QPSK	20407	1RB#5	23.36	PASS
Band5	1.4MHz	16QAM	20407	1RB#5	22.18	PASS
Band5	1.4MHz	QPSK	20407	3RB#0	23.40	PASS
Band5	1.4MHz	16QAM	20407	3RB#0	22.12	PASS
Band5	1.4MHz	QPSK	20407	3RB#1	23.34	PASS
Band5	1.4MHz	16QAM	20407	3RB#1	22.16	PASS
Band5	1.4MHz	QPSK	20407	3RB#3	23.32	PASS
Band5	1.4MHz	16QAM	20407	3RB#3	22.13	PASS
Band5	1.4MHz	QPSK	20407	6RB#0	22.31	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	21.13	PASS
Band5	1.4MHz	QPSK	20525	1RB#0	23.15	PASS
Band5	1.4MHz	16QAM	20525	1RB#0	22.06	PASS
Band5	1.4MHz	QPSK	20525	1RB#2	23.08	PASS
Band5	1.4MHz	16QAM	20525	1RB#2	22.05	PASS
Band5	1.4MHz	QPSK	20525	1RB#5	23.11	PASS
Band5	1.4MHz	16QAM	20525	1RB#5	22.03	PASS
Band5	1.4MHz	QPSK	20525	3RB#0	23.09	PASS
Band5	1.4MHz	16QAM	20525	3RB#0	21.91	PASS
Band5	1.4MHz	QPSK	20525	3RB#1	23.10	PASS
Band5	1.4MHz	16QAM	20525	3RB#1	21.90	PASS
Band5	1.4MHz	QPSK	20525	3RB#3	23.05	PASS
Band5	1.4MHz	16QAM	20525	3RB#3	21.87	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	22.13	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	21.08	PASS
Band5	1.4MHz	QPSK	20643	1RB#0	23.12	PASS
Band5	1.4MHz	16QAM	20643	1RB#0	22.01	PASS
Band5	1.4MHz	QPSK	20643	1RB#2	23.10	PASS
Band5	1.4MHz	16QAM	20643	1RB#2	22.04	PASS
Band5	1.4MHz	QPSK	20643	1RB#5	23.11	PASS
Band5	1.4MHz	16QAM	20643	1RB#5	22.03	PASS
Band5	1.4MHz	QPSK	20643	3RB#0	23.10	PASS
Band5	1.4MHz	16QAM	20643	3RB#0	21.88	PASS

Band5	1.4MHz	QPSK	20643	3RB#1	23.07	PASS
Band5	1.4MHz	16QAM	20643	3RB#1	21.89	PASS
Band5	1.4MHz	QPSK	20643	3RB#3	23.08	PASS
Band5	1.4MHz	16QAM	20643	3RB#3	21.90	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	22.15	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	21.09	PASS
Band5	3MHz	QPSK	20415	1RB#0	23.35	PASS
Band5	3MHz	16QAM	20415	1RB#0	22.33	PASS
Band5	3MHz	QPSK	20415	1RB#8	23.31	PASS
Band5	3MHz	16QAM	20415	1RB#8	22.28	PASS
Band5	3MHz	QPSK	20415	1RB#14	23.30	PASS
Band5	3MHz	16QAM	20415	1RB#14	22.28	PASS
Band5	3MHz	QPSK	20415	8RB#0	22.33	PASS
Band5	3MHz	16QAM	20415	8RB#0	21.36	PASS
Band5	3MHz	QPSK	20415	8RB#4	22.34	PASS
Band5	3MHz	16QAM	20415	8RB#4	21.35	PASS
Band5	3MHz	QPSK	20415	8RB#7	22.29	PASS
Band5	3MHz	16QAM	20415	8RB#7	21.32	PASS
Band5	3MHz	QPSK	20415	15RB#0	22.31	PASS
Band5	3MHz	16QAM	20415	15RB#0	21.31	PASS
Band5	3MHz	QPSK	20525	1RB#0	23.21	PASS
Band5	3MHz	16QAM	20525	1RB#0	22.06	PASS
Band5	3MHz	QPSK	20525	1RB#8	23.20	PASS
Band5	3MHz	16QAM	20525	1RB#8	22.01	PASS
Band5	3MHz	QPSK	20525	1RB#14	23.17	PASS
Band5	3MHz	16QAM	20525	1RB#14	21.94	PASS
Band5	3MHz	QPSK	20525	8RB#0	22.17	PASS
Band5	3MHz	16QAM	20525	8RB#0	21.14	PASS
Band5	3MHz	QPSK	20525	8RB#4	22.15	PASS
Band5	3MHz	16QAM	20525	8RB#4	21.15	PASS
Band5	3MHz	QPSK	20525	8RB#7	22.09	PASS
Band5	3MHz	16QAM	20525	8RB#7	21.09	PASS
Band5	3MHz	QPSK	20525	15RB#0	22.12	PASS
Band5	3MHz	16QAM	20525	15RB#0	21.04	PASS
Band5	3MHz	QPSK	20635	1RB#0	23.14	PASS
Band5	3MHz	16QAM	20635	1RB#0	22.09	PASS
Band5	3MHz	QPSK	20635	1RB#8	23.13	PASS
Band5	3MHz	16QAM	20635	1RB#8	22.10	PASS
Band5	3MHz	QPSK	20635	1RB#14	23.12	PASS
Band5	3MHz	16QAM	20635	1RB#14	22.11	PASS
Band5	3MHz	QPSK	20635	8RB#0	22.15	PASS
Band5	3MHz	16QAM	20635	8RB#0	21.16	PASS

Band5	3MHz	QPSK	20635	8RB#4	22.14	PASS
Band5	3MHz	16QAM	20635	8RB#4	21.16	PASS
Band5	3MHz	QPSK	20635	8RB#7	22.11	PASS
Band5	3MHz	16QAM	20635	8RB#7	21.09	PASS
Band5	3MHz	QPSK	20635	15RB#0	22.12	PASS
Band5	3MHz	16QAM	20635	15RB#0	21.09	PASS
Band5	5MHz	QPSK	20425	1RB#0	23.51	PASS
Band5	5MHz	16QAM	20425	1RB#0	22.36	PASS
Band5	5MHz	QPSK	20425	1RB#12	23.47	PASS
Band5	5MHz	16QAM	20425	1RB#12	22.30	PASS
Band5	5MHz	QPSK	20425	1RB#24	23.50	PASS
Band5	5MHz	16QAM	20425	1RB#24	22.36	PASS
Band5	5MHz	QPSK	20425	12RB#0	22.35	PASS
Band5	5MHz	16QAM	20425	12RB#0	21.32	PASS
Band5	5MHz	QPSK	20425	12RB#6	22.35	PASS
Band5	5MHz	16QAM	20425	12RB#6	21.33	PASS
Band5	5MHz	QPSK	20425	12RB#13	22.31	PASS
Band5	5MHz	16QAM	20425	12RB#13	21.29	PASS
Band5	5MHz	QPSK	20425	25RB#0	22.36	PASS
Band5	5MHz	16QAM	20425	25RB#0	21.34	PASS
Band5	5MHz	QPSK	20525	1RB#0	23.31	PASS
Band5	5MHz	16QAM	20525	1RB#0	22.31	PASS
Band5	5MHz	QPSK	20525	1RB#12	23.21	PASS
Band5	5MHz	16QAM	20525	1RB#12	22.25	PASS
Band5	5MHz	QPSK	20525	1RB#24	23.21	PASS
Band5	5MHz	16QAM	20525	1RB#24	22.25	PASS
Band5	5MHz	QPSK	20525	12RB#0	22.20	PASS
Band5	5MHz	16QAM	20525	12RB#0	21.27	PASS
Band5	5MHz	QPSK	20525	12RB#6	22.22	PASS
Band5	5MHz	16QAM	20525	12RB#6	21.28	PASS
Band5	5MHz	QPSK	20525	12RB#13	22.14	PASS
Band5	5MHz	16QAM	20525	12RB#13	21.20	PASS
Band5	5MHz	QPSK	20525	25RB#0	22.23	PASS
Band5	5MHz	16QAM	20525	25RB#0	21.13	PASS
Band5	5MHz	QPSK	20625	1RB#0	23.30	PASS
Band5	5MHz	16QAM	20625	1RB#0	22.16	PASS
Band5	5MHz	QPSK	20625	1RB#12	23.29	PASS
Band5	5MHz	16QAM	20625	1RB#12	22.09	PASS
Band5	5MHz	QPSK	20625	1RB#24	23.31	PASS
Band5	5MHz	16QAM	20625	1RB#24	22.17	PASS
Band5	5MHz	QPSK	20625	12RB#0	22.19	PASS
Band5	5MHz	16QAM	20625	12RB#0	21.18	PASS

Band5	5MHz	QPSK	20625	12RB#6	22.19	PASS
Band5	5MHz	16QAM	20625	12RB#6	21.17	PASS
Band5	5MHz	QPSK	20625	12RB#13	22.11	PASS
Band5	5MHz	16QAM	20625	12RB#13	21.08	PASS
Band5	5MHz	QPSK	20625	25RB#0	22.16	PASS
Band5	5MHz	16QAM	20625	25RB#0	21.16	PASS
Band5	10MHz	QPSK	20450	1RB#0	23.54	PASS
Band5	10MHz	16QAM	20450	1RB#0	22.35	PASS
Band5	10MHz	QPSK	20450	1RB#24	23.34	PASS
Band5	10MHz	16QAM	20450	1RB#24	22.30	PASS
Band5	10MHz	QPSK	20450	1RB#49	23.26	PASS
Band5	10MHz	16QAM	20450	1RB#49	22.25	PASS
Band5	10MHz	QPSK	20450	25RB#0	22.29	PASS
Band5	10MHz	16QAM	20450	25RB#0	21.26	PASS
Band5	10MHz	QPSK	20450	25RB#12	22.28	PASS
Band5	10MHz	16QAM	20450	25RB#12	21.28	PASS
Band5	10MHz	QPSK	20450	25RB#25	22.28	PASS
Band5	10MHz	16QAM	20450	25RB#25	21.24	PASS
Band5	10MHz	QPSK	20450	50RB#0	22.28	PASS
Band5	10MHz	16QAM	20450	50RB#0	21.25	PASS
Band5	10MHz	QPSK	20525	1RB#0	23.33	PASS
Band5	10MHz	16QAM	20525	1RB#0	22.16	PASS
Band5	10MHz	QPSK	20525	1RB#24	23.20	PASS
Band5	10MHz	16QAM	20525	1RB#24	22.04	PASS
Band5	10MHz	QPSK	20525	1RB#49	23.18	PASS
Band5	10MHz	16QAM	20525	1RB#49	22.01	PASS
Band5	10MHz	QPSK	20525	25RB#0	22.20	PASS
Band5	10MHz	16QAM	20525	25RB#0	21.21	PASS
Band5	10MHz	QPSK	20525	25RB#12	22.21	PASS
Band5	10MHz	16QAM	20525	25RB#12	21.19	PASS
Band5	10MHz	QPSK	20525	25RB#25	22.16	PASS
Band5	10MHz	16QAM	20525	25RB#25	21.14	PASS
Band5	10MHz	QPSK	20525	50RB#0	22.16	PASS
Band5	10MHz	16QAM	20525	50RB#0	21.19	PASS
Band5	10MHz	QPSK	20600	1RB#0	0.00	PASS
Band5	10MHz	16QAM	20600	1RB#0	0.00	PASS
Band5	10MHz	QPSK	20600	1RB#24	0.00	PASS
Band5	10MHz	16QAM	20600	1RB#24	0.00	PASS
Band5	10MHz	QPSK	20600	1RB#49	23.14	PASS
Band5	10MHz	16QAM	20600	1RB#49	21.87	PASS
Band5	10MHz	QPSK	20600	25RB#0	22.10	PASS
Band5	10MHz	16QAM	20600	25RB#0	21.09	PASS

Band5	10MHz	QPSK	20600	25RB#12	22.10	PASS
Band5	10MHz	16QAM	20600	25RB#12	21.09	PASS
Band5	10MHz	QPSK	20600	25RB#25	22.11	PASS
Band5	10MHz	16QAM	20600	25RB#25	21.11	PASS
Band5	10MHz	QPSK	20600	50RB#0	22.14	PASS
Band5	10MHz	16QAM	20600	50RB#0	21.12	PASS

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

Test Result

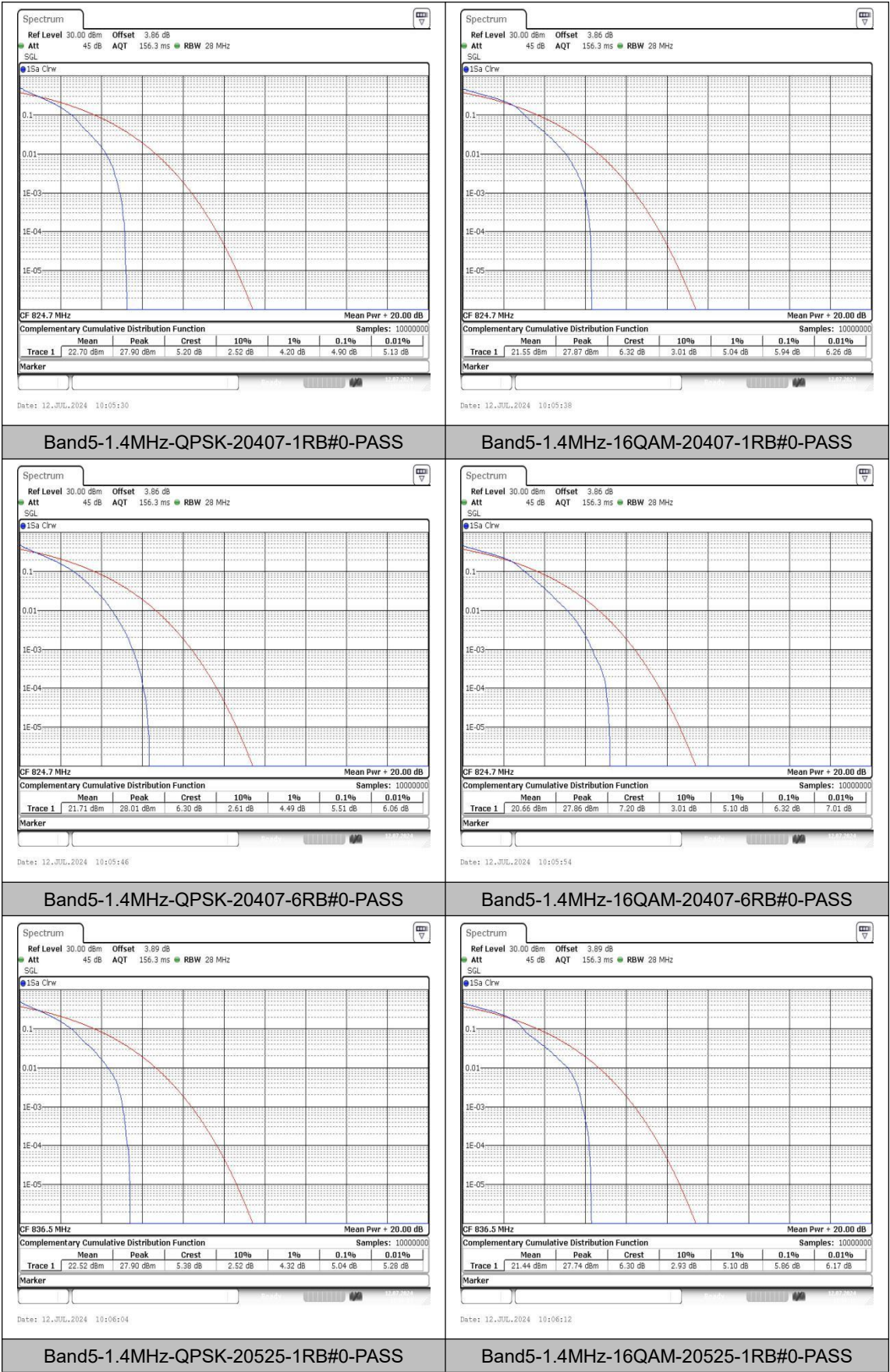
Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band5	1.4MHz	QPSK	20407	1RB#0	4.90	13	PASS
Band5	1.4MHz	16QAM	20407	1RB#0	5.94	13	PASS
Band5	1.4MHz	QPSK	20407	6RB#0	5.51	13	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	6.32	13	PASS
Band5	1.4MHz	QPSK	20525	1RB#0	5.04	13	PASS
Band5	1.4MHz	16QAM	20525	1RB#0	5.86	13	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	5.54	13	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	6.41	13	PASS
Band5	1.4MHz	QPSK	20643	1RB#0	5.04	13	PASS
Band5	1.4MHz	16QAM	20643	1RB#0	6.20	13	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	5.59	13	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	6.43	13	PASS
Band5	3MHz	QPSK	20415	1RB#0	4.93	13	PASS
Band5	3MHz	16QAM	20415	1RB#0	5.83	13	PASS
Band5	3MHz	QPSK	20415	15RB#0	5.62	13	PASS
Band5	3MHz	16QAM	20415	15RB#0	6.43	13	PASS
Band5	3MHz	QPSK	20525	1RB#0	5.01	13	PASS
Band5	3MHz	16QAM	20525	1RB#0	5.83	13	PASS
Band5	3MHz	QPSK	20525	15RB#0	5.62	13	PASS
Band5	3MHz	16QAM	20525	15RB#0	6.41	13	PASS
Band5	3MHz	QPSK	20635	1RB#0	5.01	13	PASS
Band5	3MHz	16QAM	20635	1RB#0	6.17	13	PASS
Band5	3MHz	QPSK	20635	15RB#0	5.57	13	PASS
Band5	3MHz	16QAM	20635	15RB#0	6.43	13	PASS
Band5	5MHz	QPSK	20425	1RB#0	4.93	13	PASS
Band5	5MHz	16QAM	20425	1RB#0	5.68	13	PASS
Band5	5MHz	QPSK	20425	25RB#0	5.65	13	PASS
Band5	5MHz	16QAM	20425	25RB#0	6.38	13	PASS
Band5	5MHz	QPSK	20525	1RB#0	5.04	13	PASS
Band5	5MHz	16QAM	20525	1RB#0	5.83	13	PASS
Band5	5MHz	QPSK	20525	25RB#0	5.59	13	PASS
Band5	5MHz	16QAM	20525	25RB#0	6.35	13	PASS
Band5	5MHz	QPSK	20625	1RB#0	4.99	13	PASS
Band5	5MHz	16QAM	20625	1RB#0	5.71	13	PASS
Band5	5MHz	QPSK	20625	25RB#0	5.59	13	PASS
Band5	5MHz	16QAM	20625	25RB#0	6.38	13	PASS
Band5	10MHz	QPSK	20450	1RB#0	4.96	13	PASS

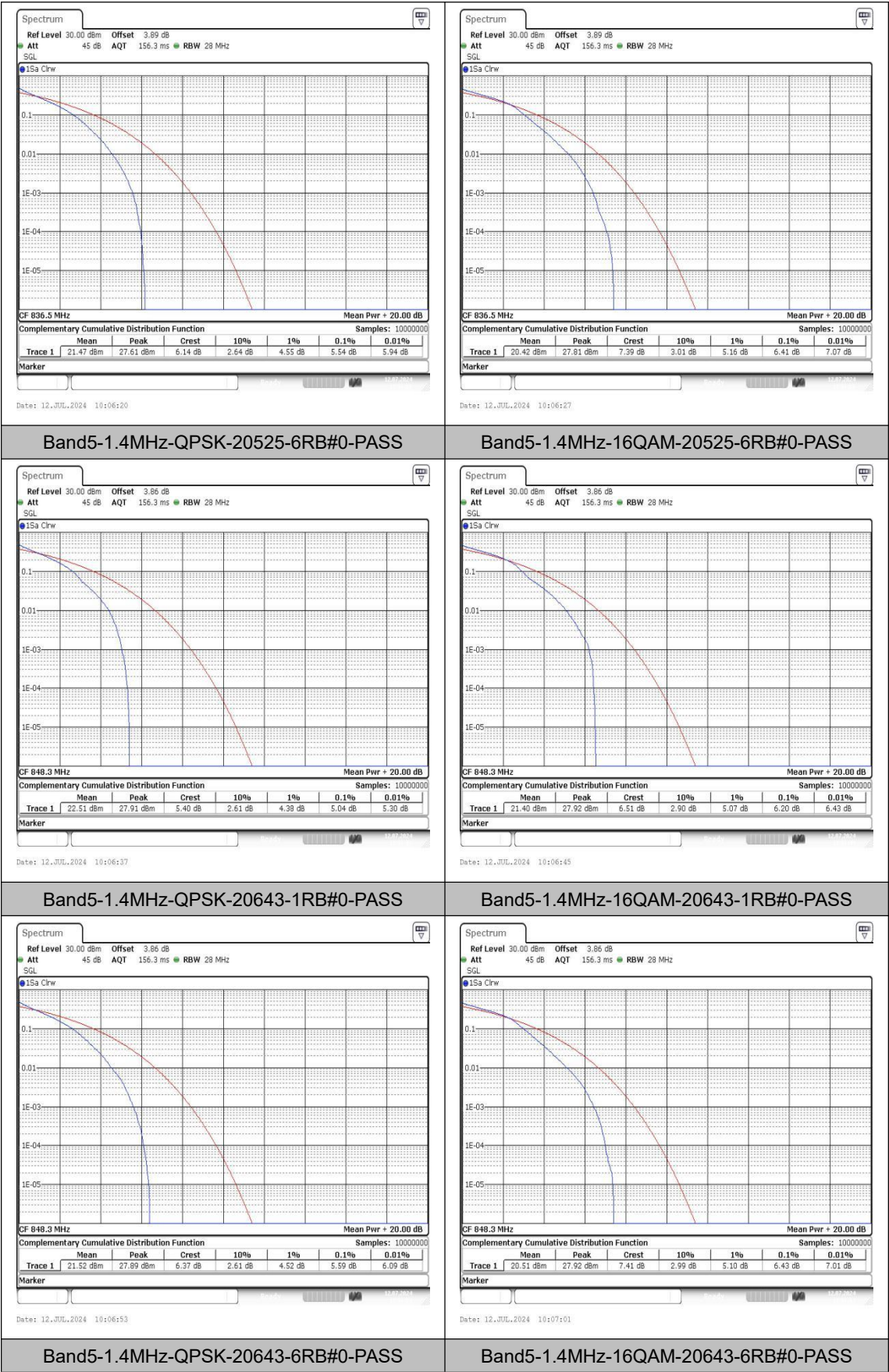
Waltek Testing Group (Shenzhen) Co., Ltd.

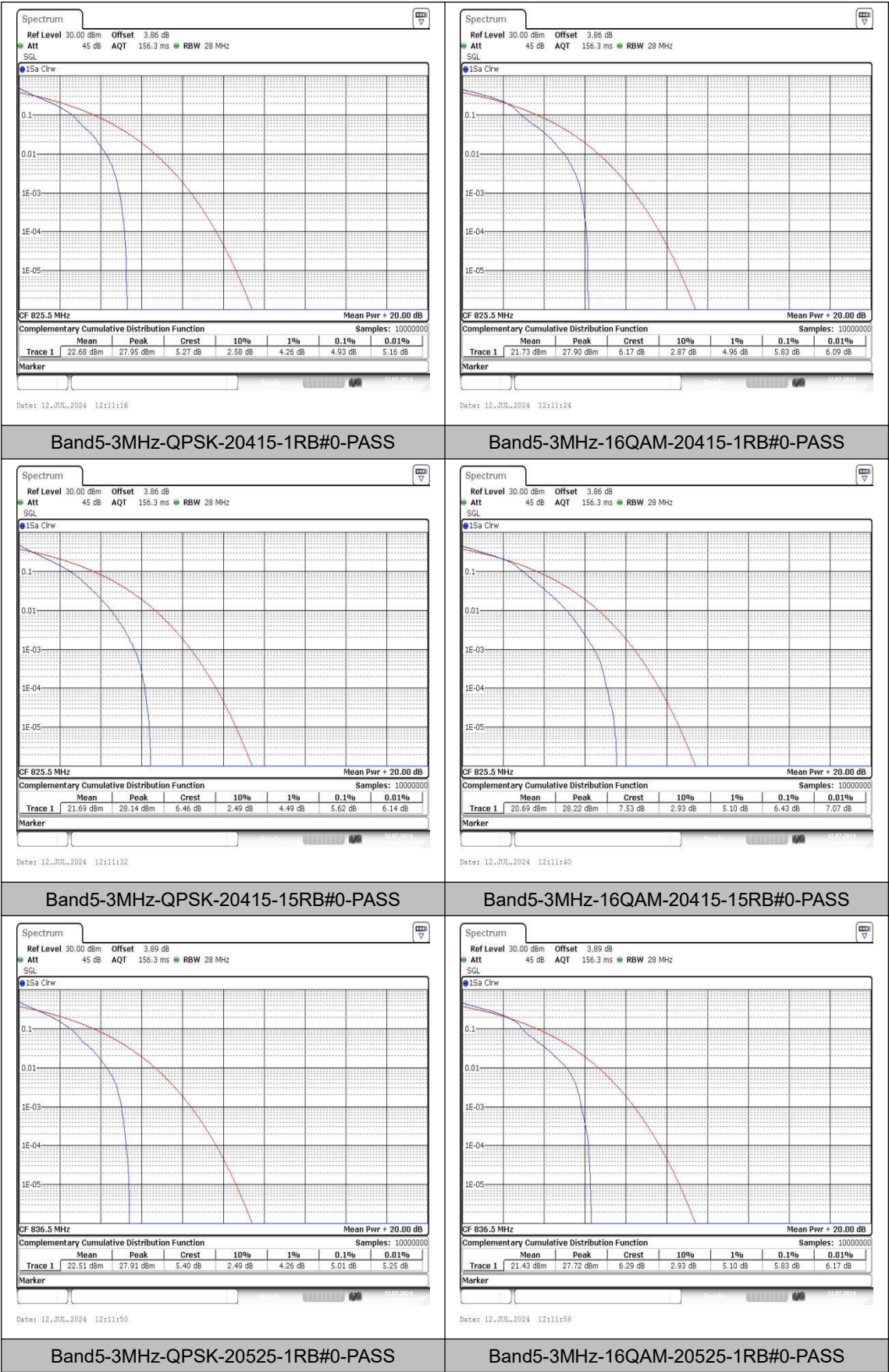
<http://www.waltek.com.cn>

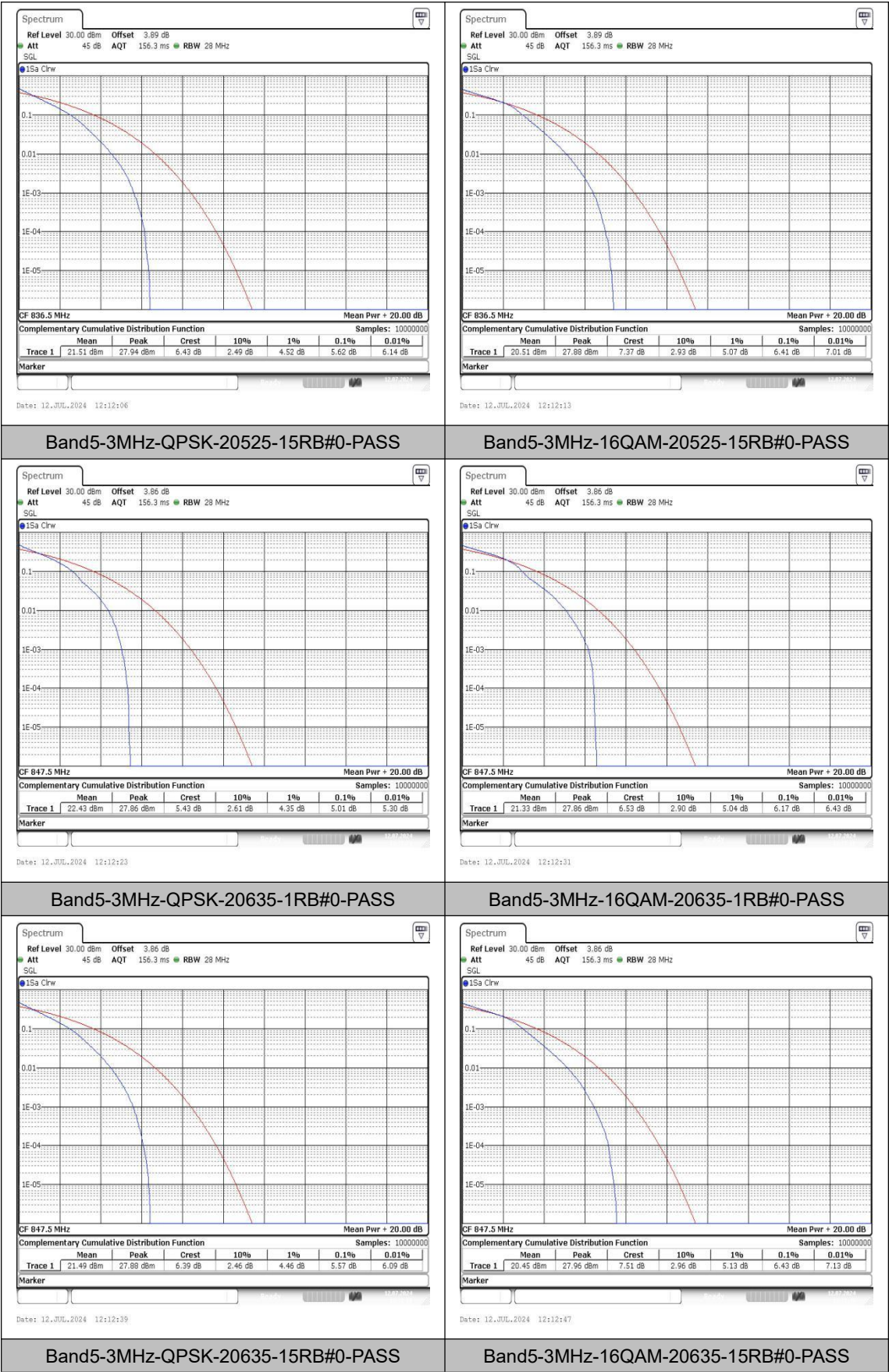
Band5	10MHz	16QAM	20450	1RB#0	5.83	13	PASS
Band5	10MHz	QPSK	20450	50RB#0	5.59	13	PASS
Band5	10MHz	16QAM	20450	50RB#0	6.38	13	PASS
Band5	10MHz	QPSK	20525	1RB#0	5.07	13	PASS
Band5	10MHz	16QAM	20525	1RB#0	5.88	13	PASS
Band5	10MHz	QPSK	20525	50RB#0	5.57	13	PASS
Band5	10MHz	16QAM	20525	50RB#0	6.38	13	PASS
Band5	10MHz	QPSK	20600	1RB#0	5.19	13	PASS
Band5	10MHz	16QAM	20600	1RB#0	6.35	13	PASS
Band5	10MHz	QPSK	20600	50RB#0	5.54	13	PASS
Band5	10MHz	16QAM	20600	50RB#0	6.35	13	PASS

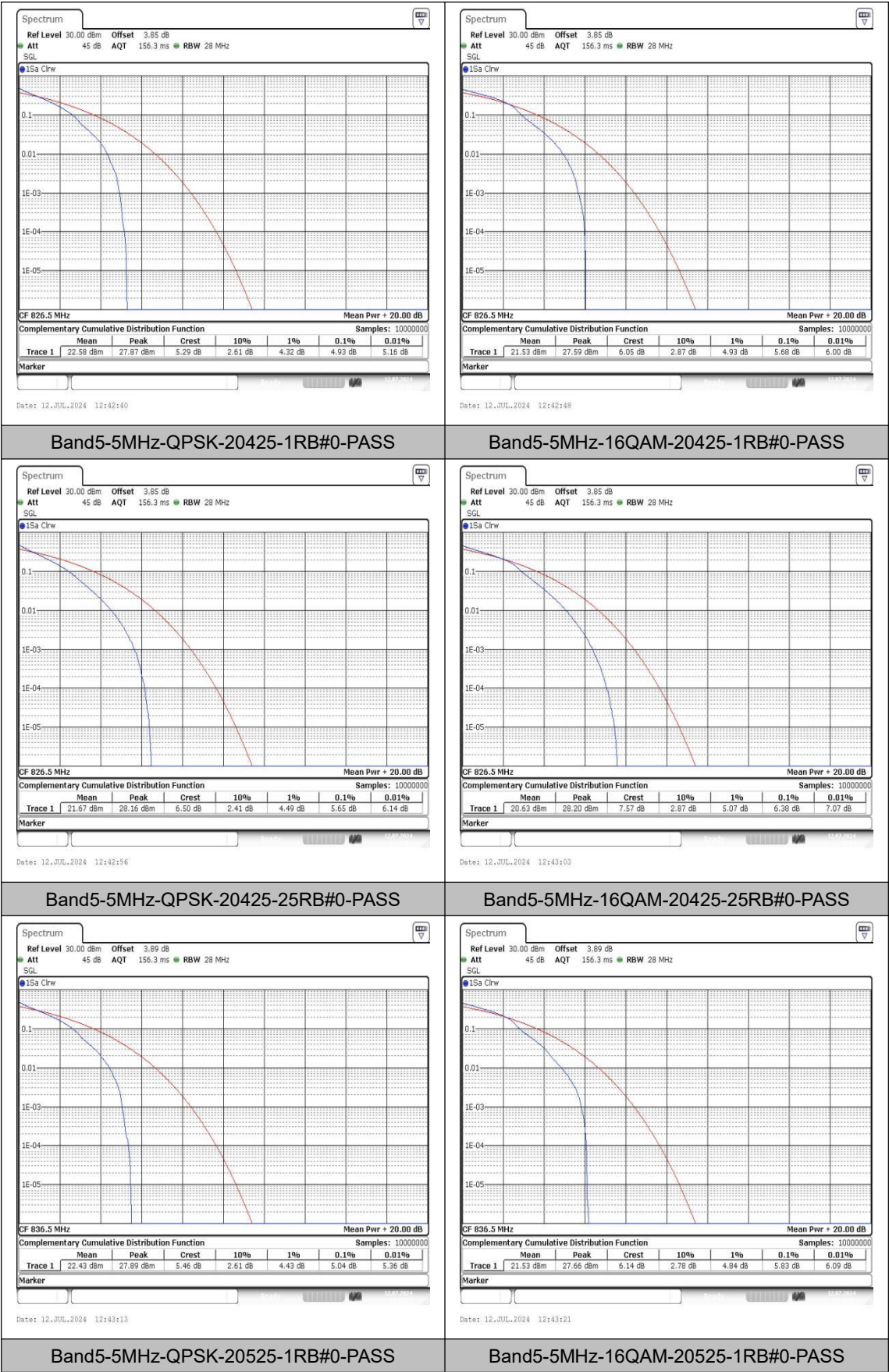
Test Graphs

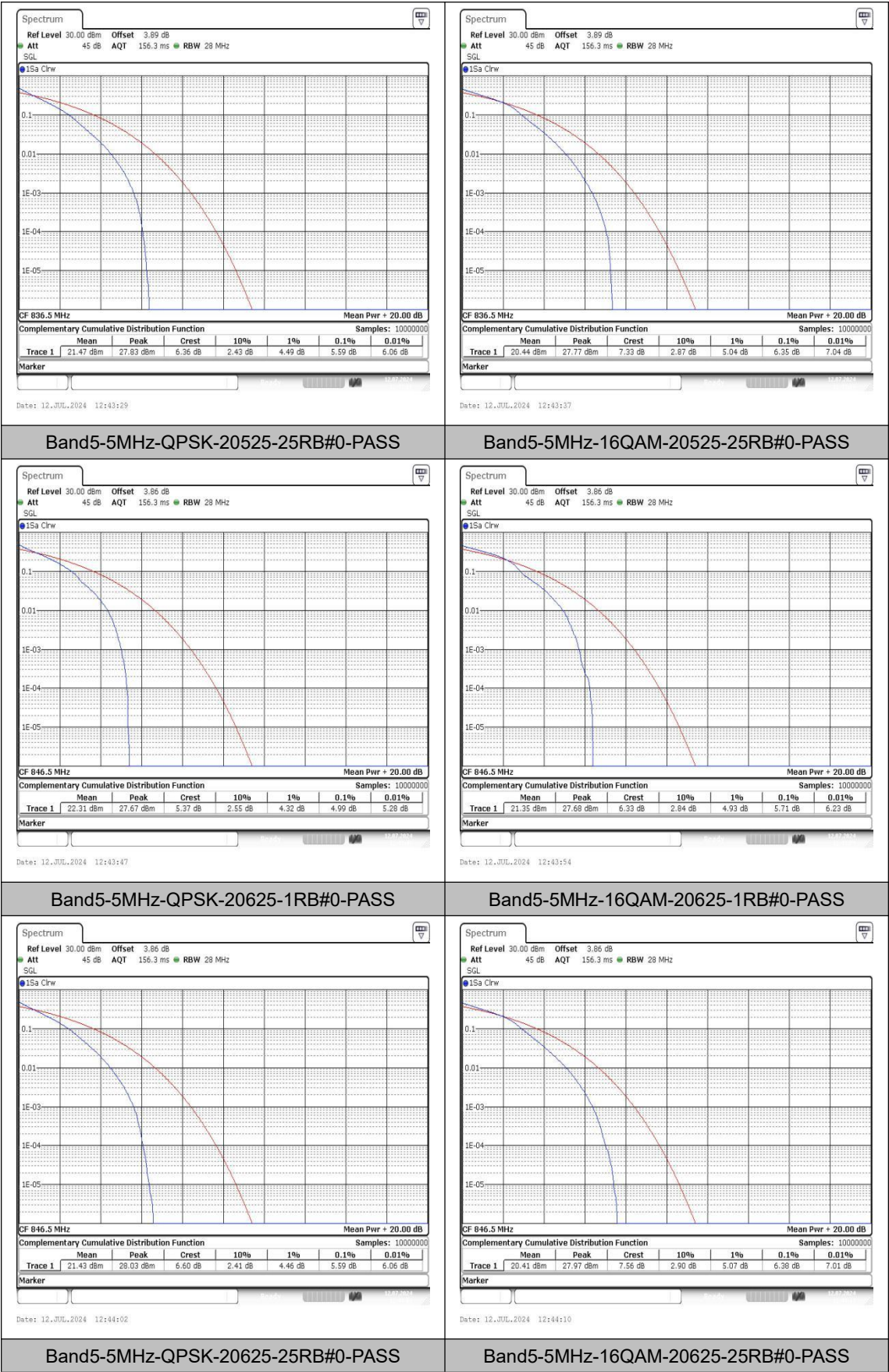


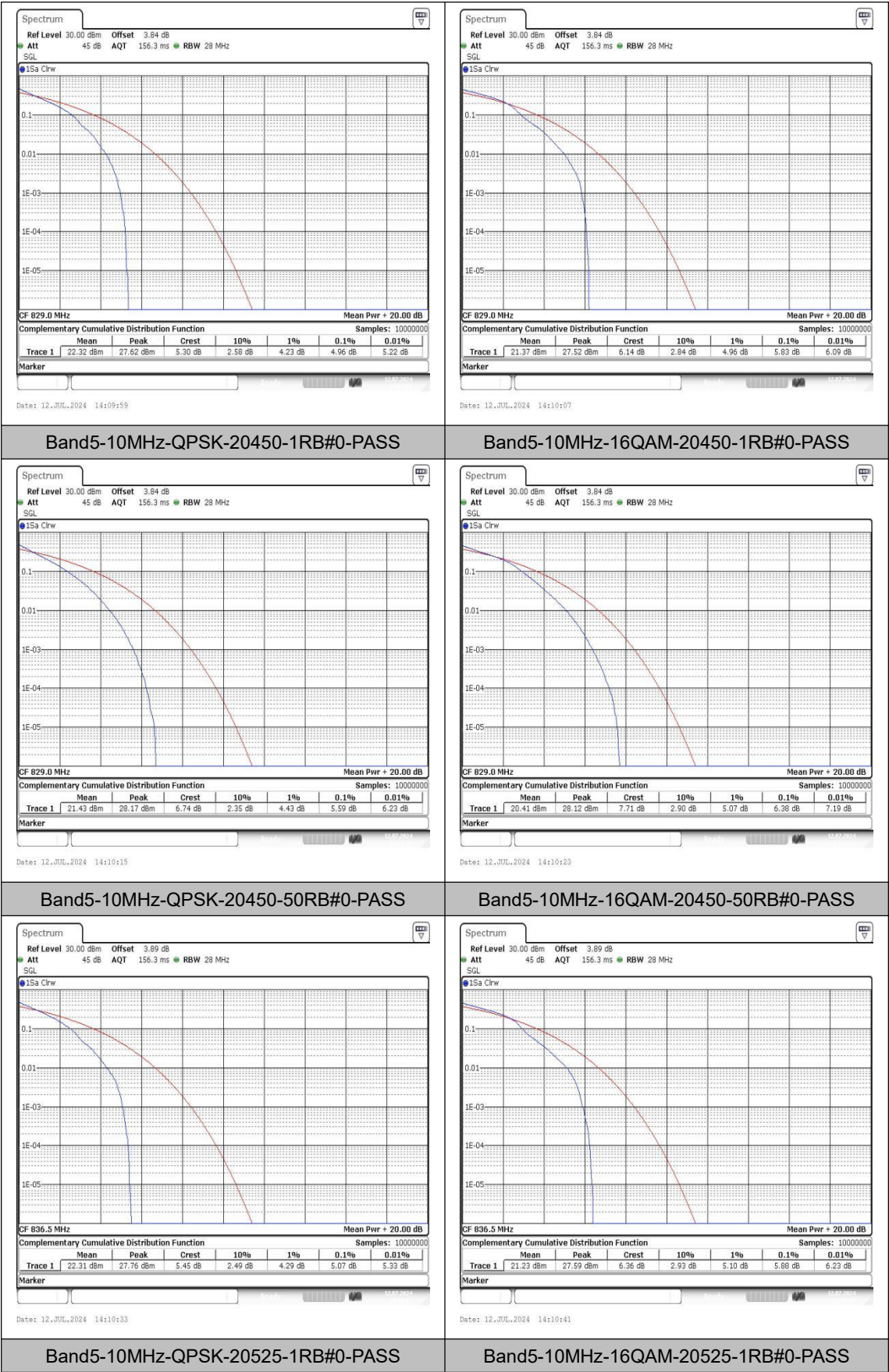


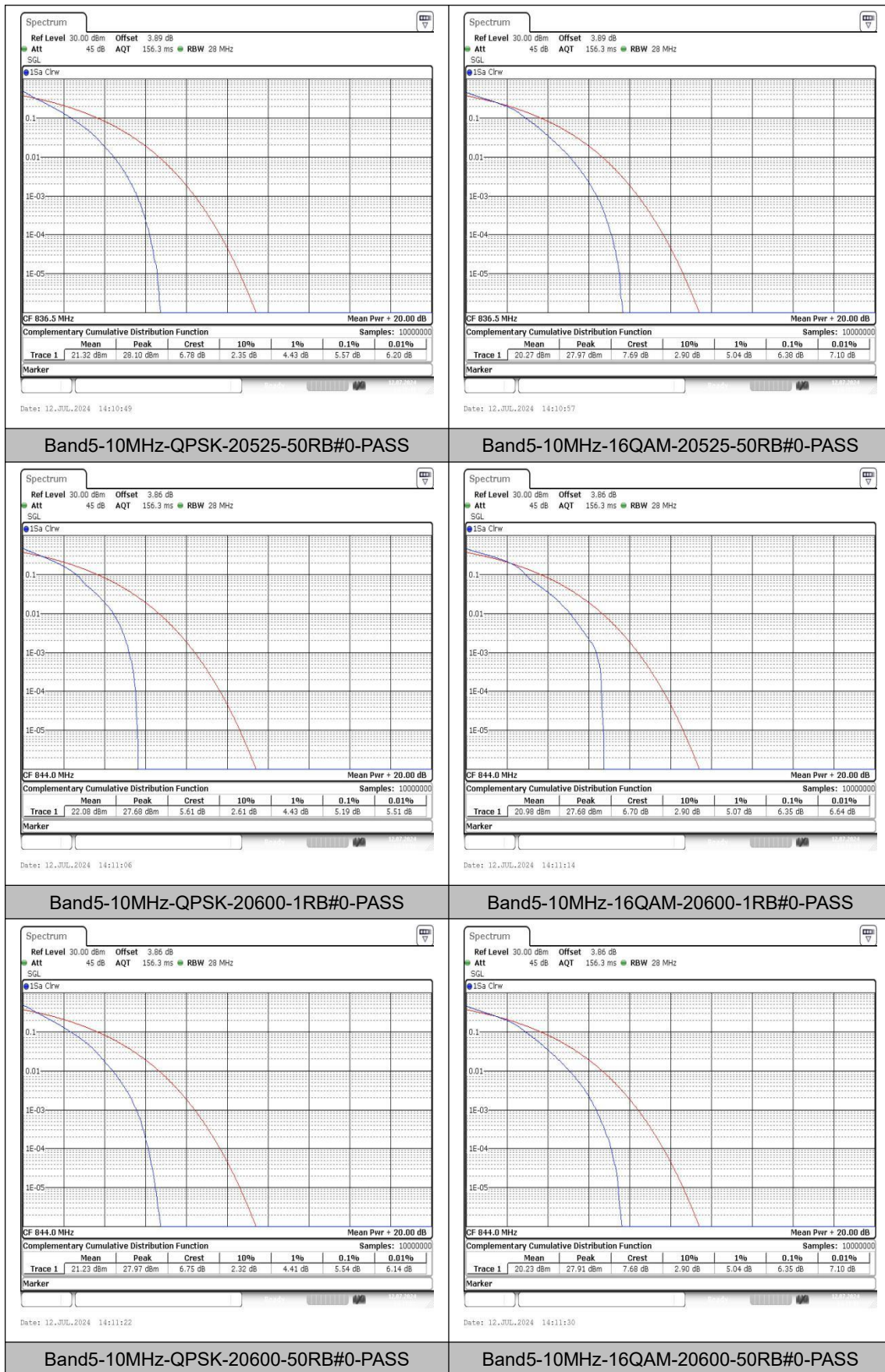












Appendix C: 26dB Bandwidth and Occupied Bandwidth

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band5	1.4MHz	QPSK	20407	6RB#0	1.088	1.31	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	1.098	1.32	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	1.093	1.29	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	1.098	1.30	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	1.098	1.33	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	1.093	1.27	PASS
Band5	3MHz	QPSK	20415	15RB#0	2.705	2.98	PASS
Band5	3MHz	16QAM	20415	15RB#0	2.686	2.93	PASS
Band5	3MHz	QPSK	20525	15RB#0	2.686	2.95	PASS
Band5	3MHz	16QAM	20525	15RB#0	2.686	2.95	PASS
Band5	3MHz	QPSK	20635	15RB#0	2.696	2.95	PASS
Band5	3MHz	16QAM	20635	15RB#0	2.686	2.95	PASS
Band5	5MHz	QPSK	20425	25RB#0	4.496	5.01	PASS
Band5	5MHz	16QAM	20425	25RB#0	4.496	4.97	PASS
Band5	5MHz	QPSK	20525	25RB#0	4.496	4.99	PASS
Band5	5MHz	16QAM	20525	25RB#0	4.505	5.03	PASS
Band5	5MHz	QPSK	20625	25RB#0	4.505	4.98	PASS
Band5	5MHz	16QAM	20625	25RB#0	4.505	5.00	PASS
Band5	10MHz	QPSK	20450	50RB#0	8.985	9.90	PASS
Band5	10MHz	16QAM	20450	50RB#0	8.985	10.30	PASS
Band5	10MHz	QPSK	20525	50RB#0	8.985	9.93	PASS
Band5	10MHz	16QAM	20525	50RB#0	8.985	9.93	PASS
Band5	10MHz	QPSK	20600	50RB#0	8.952	9.90	PASS
Band5	10MHz	16QAM	20600	50RB#0	8.985	9.83	PASS

Test Graphs

