



Appendix F: Test Data for E-UTRA Band 12

Product Name: Global Powerbank WiFi

Test Model: P1

Environmental Conditions

Temperature:	23.8° C
Relative Humidity:	52.1%
ATM Pressure:	100.0 kPa
Test Engineer:	Can Kun
Supervised by:	Nick Peng



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F.1 Conducted Output Power Data

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band12	1.4MHz	QPSK	23017	1RB#0	26.13	PASS
Band12	1.4MHz	16QAM	23017	1RB#0	25.29	PASS
Band12	1.4MHz	QPSK	23017	1RB#2	26.10	PASS
Band12	1.4MHz	16QAM	23017	1RB#2	25.26	PASS
Band12	1.4MHz	QPSK	23017	1RB#5	26.03	PASS
Band12	1.4MHz	16QAM	23017	1RB#5	25.23	PASS
Band12	1.4MHz	QPSK	23017	3RB#0	26.11	PASS
Band12	1.4MHz	16QAM	23017	3RB#0	24.55	PASS
Band12	1.4MHz	QPSK	23017	3RB#1	26.11	PASS
Band12	1.4MHz	16QAM	23017	3RB#1	24.51	PASS
Band12	1.4MHz	QPSK	23017	3RB#3	26.13	PASS
Band12	1.4MHz	16QAM	23017	3RB#3	24.55	PASS
Band12	1.4MHz	QPSK	23017	6RB#0	25.30	PASS
Band12	1.4MHz	16QAM	23017	6RB#0	24.20	PASS
Band12	1.4MHz	QPSK	23095	1RB#0	26.21	PASS
Band12	1.4MHz	16QAM	23095	1RB#0	25.33	PASS
Band12	1.4MHz	QPSK	23095	1RB#2	26.29	PASS
Band12	1.4MHz	16QAM	23095	1RB#2	25.48	PASS
Band12	1.4MHz	QPSK	23095	1RB#5	26.14	PASS
Band12	1.4MHz	16QAM	23095	1RB#5	25.25	PASS
Band12	1.4MHz	QPSK	23095	3RB#0	26.26	PASS
Band12	1.4MHz	16QAM	23095	3RB#0	24.71	PASS
Band12	1.4MHz	QPSK	23095	3RB#1	26.25	PASS
Band12	1.4MHz	16QAM	23095	3RB#1	24.82	PASS
Band12	1.4MHz	QPSK	23095	3RB#3	26.32	PASS
Band12	1.4MHz	16QAM	23095	3RB#3	24.76	PASS
Band12	1.4MHz	QPSK	23095	6RB#0	25.17	PASS
Band12	1.4MHz	16QAM	23095	6RB#0	24.37	PASS
Band12	1.4MHz	QPSK	23173	1RB#0	26.40	PASS
Band12	1.4MHz	16QAM	23173	1RB#0	25.50	PASS
Band12	1.4MHz	QPSK	23173	1RB#2	26.37	PASS
Band12	1.4MHz	16QAM	23173	1RB#2	25.61	PASS
Band12	1.4MHz	QPSK	23173	1RB#5	26.33	PASS
Band12	1.4MHz	16QAM	23173	1RB#5	25.56	PASS



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Band12	1.4MHz	QPSK	23173	3RB#0	26.17	PASS
Band12	1.4MHz	16QAM	23173	3RB#0	24.68	PASS
Band12	1.4MHz	QPSK	23173	3RB#1	26.39	PASS
Band12	1.4MHz	16QAM	23173	3RB#1	24.69	PASS
Band12	1.4MHz	QPSK	23173	3RB#3	26.33	PASS
Band12	1.4MHz	16QAM	23173	3RB#3	24.75	PASS
Band12	1.4MHz	QPSK	23173	6RB#0	25.33	PASS
Band12	1.4MHz	16QAM	23173	6RB#0	24.86	PASS
Band12	3MHz	QPSK	23025	1RB#0	26.19	PASS
Band12	3MHz	16QAM	23025	1RB#0	24.82	PASS
Band12	3MHz	QPSK	23025	1RB#8	26.23	PASS
Band12	3MHz	16QAM	23025	1RB#8	24.78	PASS
Band12	3MHz	QPSK	23025	1RB#14	26.14	PASS
Band12	3MHz	16QAM	23025	1RB#14	24.87	PASS
Band12	3MHz	QPSK	23025	8RB#0	25.24	PASS
Band12	3MHz	16QAM	23025	8RB#0	24.41	PASS
Band12	3MHz	QPSK	23025	8RB#4	25.23	PASS
Band12	3MHz	16QAM	23025	8RB#4	24.35	PASS
Band12	3MHz	QPSK	23025	8RB#7	25.33	PASS
Band12	3MHz	16QAM	23025	8RB#7	24.83	PASS
Band12	3MHz	QPSK	23025	15RB#0	25.25	PASS
Band12	3MHz	16QAM	23025	15RB#0	24.31	PASS
Band12	3MHz	QPSK	23095	1RB#0	26.34	PASS
Band12	3MHz	16QAM	23095	1RB#0	24.77	PASS
Band12	3MHz	QPSK	23095	1RB#8	26.31	PASS
Band12	3MHz	16QAM	23095	1RB#8	24.80	PASS
Band12	3MHz	QPSK	23095	1RB#14	26.36	PASS
Band12	3MHz	16QAM	23095	1RB#14	24.79	PASS
Band12	3MHz	QPSK	23095	8RB#0	25.33	PASS
Band12	3MHz	16QAM	23095	8RB#0	24.87	PASS
Band12	3MHz	QPSK	23095	8RB#4	25.32	PASS
Band12	3MHz	16QAM	23095	8RB#4	24.86	PASS
Band12	3MHz	QPSK	23095	8RB#7	25.26	PASS
Band12	3MHz	16QAM	23095	8RB#7	24.54	PASS
Band12	3MHz	QPSK	23095	15RB#0	25.30	PASS
Band12	3MHz	16QAM	23095	15RB#0	24.11	PASS
Band12	3MHz	QPSK	23165	1RB#0	26.41	PASS
Band12	3MHz	16QAM	23165	1RB#0	25.50	PASS
Band12	3MHz	QPSK	23165	1RB#8	26.41	PASS
Band12	3MHz	16QAM	23165	1RB#8	25.48	PASS



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Band12	3MHz	QPSK	23165	1RB#14	26.44	PASS
Band12	3MHz	16QAM	23165	1RB#14	25.56	PASS
Band12	3MHz	QPSK	23165	8RB#0	25.29	PASS
Band12	3MHz	16QAM	23165	8RB#0	24.34	PASS
Band12	3MHz	QPSK	23165	8RB#4	25.23	PASS
Band12	3MHz	16QAM	23165	8RB#4	24.35	PASS
Band12	3MHz	QPSK	23165	8RB#7	25.41	PASS
Band12	3MHz	16QAM	23165	8RB#7	25.03	PASS
Band12	3MHz	QPSK	23165	15RB#0	25.42	PASS
Band12	3MHz	16QAM	23165	15RB#0	24.18	PASS
Band12	5MHz	QPSK	23035	1RB#0	26.22	PASS
Band12	5MHz	16QAM	23035	1RB#0	24.74	PASS
Band12	5MHz	QPSK	23035	1RB#12	26.31	PASS
Band12	5MHz	16QAM	23035	1RB#12	24.66	PASS
Band12	5MHz	QPSK	23035	1RB#24	26.38	PASS
Band12	5MHz	16QAM	23035	1RB#24	24.73	PASS
Band12	5MHz	QPSK	23035	12RB#0	25.14	PASS
Band12	5MHz	16QAM	23035	12RB#0	24.32	PASS
Band12	5MHz	QPSK	23035	12RB#6	25.15	PASS
Band12	5MHz	16QAM	23035	12RB#6	24.32	PASS
Band12	5MHz	QPSK	23035	12RB#13	25.38	PASS
Band12	5MHz	16QAM	23035	12RB#13	24.74	PASS
Band12	5MHz	QPSK	23035	25RB#0	25.34	PASS
Band12	5MHz	16QAM	23035	25RB#0	24.82	PASS
Band12	5MHz	QPSK	23095	1RB#0	26.36	PASS
Band12	5MHz	16QAM	23095	1RB#0	25.41	PASS
Band12	5MHz	QPSK	23095	1RB#12	26.36	PASS
Band12	5MHz	16QAM	23095	1RB#12	25.40	PASS
Band12	5MHz	QPSK	23095	1RB#24	26.26	PASS
Band12	5MHz	16QAM	23095	1RB#24	25.33	PASS
Band12	5MHz	QPSK	23095	12RB#0	25.24	PASS
Band12	5MHz	16QAM	23095	12RB#0	24.76	PASS
Band12	5MHz	QPSK	23095	12RB#6	25.23	PASS
Band12	5MHz	16QAM	23095	12RB#6	24.75	PASS
Band12	5MHz	QPSK	23095	12RB#13	25.36	PASS
Band12	5MHz	16QAM	23095	12RB#13	24.40	PASS
Band12	5MHz	QPSK	23095	25RB#0	25.29	PASS
Band12	5MHz	16QAM	23095	25RB#0	24.43	PASS
Band12	5MHz	QPSK	23155	1RB#0	26.29	PASS
Band12	5MHz	16QAM	23155	1RB#0	24.93	PASS



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Band12	5MHz	QPSK	23155	1RB#12	26.40	PASS
Band12	5MHz	16QAM	23155	1RB#12	25.01	PASS
Band12	5MHz	QPSK	23155	1RB#24	26.47	PASS
Band12	5MHz	16QAM	23155	1RB#24	24.91	PASS
Band12	5MHz	QPSK	23155	12RB#0	25.46	PASS
Band12	5MHz	16QAM	23155	12RB#0	24.74	PASS
Band12	5MHz	QPSK	23155	12RB#6	25.45	PASS
Band12	5MHz	16QAM	23155	12RB#6	24.67	PASS
Band12	5MHz	QPSK	23155	12RB#13	25.36	PASS
Band12	5MHz	16QAM	23155	12RB#13	24.15	PASS
Band12	5MHz	QPSK	23155	25RB#0	25.37	PASS
Band12	5MHz	16QAM	23155	25RB#0	24.32	PASS
Band12	10MHz	QPSK	23060	1RB#0	26.14	PASS
Band12	10MHz	16QAM	23060	1RB#0	25.13	PASS
Band12	10MHz	QPSK	23060	1RB#24	26.24	PASS
Band12	10MHz	16QAM	23060	1RB#24	25.34	PASS
Band12	10MHz	QPSK	23060	1RB#49	26.11	PASS
Band12	10MHz	16QAM	23060	1RB#49	25.28	PASS
Band12	10MHz	QPSK	23060	25RB#0	25.43	PASS
Band12	10MHz	16QAM	23060	25RB#0	24.68	PASS
Band12	10MHz	QPSK	23060	25RB#12	25.36	PASS
Band12	10MHz	16QAM	23060	25RB#12	24.75	PASS
Band12	10MHz	QPSK	23060	25RB#25	25.40	PASS
Band12	10MHz	16QAM	23060	25RB#25	24.63	PASS
Band12	10MHz	QPSK	23060	50RB#0	25.33	PASS
Band12	10MHz	16QAM	23060	50RB#0	24.72	PASS
Band12	10MHz	QPSK	23095	1RB#0	26.44	PASS
Band12	10MHz	16QAM	23095	1RB#0	25.06	PASS
Band12	10MHz	QPSK	23095	1RB#24	26.48	PASS
Band12	10MHz	16QAM	23095	1RB#24	25.07	PASS
Band12	10MHz	QPSK	23095	1RB#49	26.51	PASS
Band12	10MHz	16QAM	23095	1RB#49	25.02	PASS
Band12	10MHz	QPSK	23095	25RB#0	25.30	PASS
Band12	10MHz	16QAM	23095	25RB#0	24.87	PASS
Band12	10MHz	QPSK	23095	25RB#12	25.42	PASS
Band12	10MHz	16QAM	23095	25RB#12	24.83	PASS
Band12	10MHz	QPSK	23095	25RB#25	25.21	PASS
Band12	10MHz	16QAM	23095	25RB#25	24.90	PASS
Band12	10MHz	QPSK	23095	50RB#0	25.20	PASS
Band12	10MHz	16QAM	23095	50RB#0	24.46	PASS



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Band12	10MHz	QPSK	23130	1RB#0	26.31	PASS
Band12	10MHz	16QAM	23130	1RB#0	25.80	PASS
Band12	10MHz	QPSK	23130	1RB#24	26.09	PASS
Band12	10MHz	16QAM	23130	1RB#24	25.67	PASS
Band12	10MHz	QPSK	23130	1RB#49	26.29	PASS
Band12	10MHz	16QAM	23130	1RB#49	25.84	PASS
Band12	10MHz	QPSK	23130	25RB#0	25.33	PASS
Band12	10MHz	16QAM	23130	25RB#0	24.28	PASS
Band12	10MHz	QPSK	23130	25RB#12	25.26	PASS
Band12	10MHz	16QAM	23130	25RB#12	24.45	PASS
Band12	10MHz	QPSK	23130	25RB#25	25.38	PASS
Band12	10MHz	16QAM	23130	25RB#25	24.38	PASS
Band12	10MHz	QPSK	23130	50RB#0	25.26	PASS
Band12	10MHz	16QAM	23130	50RB#0	24.97	PASS





F.2 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	4.65	13	PASS
Band12	1.4MHz	16QAM	23017	1RB#0	5.42	13	PASS
Band12	1.4MHz	QPSK	23017	6RB#0	5.44	13	PASS
Band12	1.4MHz	16QAM	23017	6RB#0	6.30	13	PASS
Band12	1.4MHz	QPSK	23095	1RB#0	5.01	13	PASS
Band12	1.4MHz	16QAM	23095	1RB#0	5.94	13	PASS
Band12	1.4MHz	QPSK	23095	6RB#0	5.70	13	PASS
Band12	1.4MHz	16QAM	23095	6RB#0	6.51	13	PASS
Band12	1.4MHz	QPSK	23173	1RB#0	4.24	13	PASS
Band12	1.4MHz	16QAM	23173	1RB#0	5.09	13	PASS
Band12	1.4MHz	QPSK	23173	6RB#0	5.32	13	PASS
Band12	1.4MHz	16QAM	23173	6RB#0	5.90	13	PASS
Band12	3MHz	QPSK	23025	1RB#0	4.60	13	PASS
Band12	3MHz	16QAM	23025	1RB#0	5.86	13	PASS
Band12	3MHz	QPSK	23025	15RB#0	5.39	13	PASS
Band12	3MHz	16QAM	23025	15RB#0	6.26	13	PASS
Band12	3MHz	QPSK	23095	1RB#0	5.02	13	PASS
Band12	3MHz	16QAM	23095	1RB#0	6.25	13	PASS
Band12	3MHz	QPSK	23095	15RB#0	5.73	13	PASS
Band12	3MHz	16QAM	23095	15RB#0	6.54	13	PASS
Band12	3MHz	QPSK	23165	1RB#0	4.22	13	PASS
Band12	3MHz	16QAM	23165	1RB#0	5.30	13	PASS
Band12	3MHz	QPSK	23165	15RB#0	5.34	13	PASS
Band12	3MHz	16QAM	23165	15RB#0	6.22	13	PASS
Band12	5MHz	QPSK	23035	1RB#0	4.72	13	PASS
Band12	5MHz	16QAM	23035	1RB#0	5.72	13	PASS
Band12	5MHz	QPSK	23035	25RB#0	5.42	13	PASS
Band12	5MHz	16QAM	23035	25RB#0	6.07	13	PASS
Band12	5MHz	QPSK	23095	1RB#0	4.87	13	PASS
Band12	5MHz	16QAM	23095	1RB#0	6.00	13	PASS
Band12	5MHz	QPSK	23095	25RB#0	5.71	13	PASS
Band12	5MHz	16QAM	23095	25RB#0	6.42	13	PASS
Band12	5MHz	QPSK	23155	1RB#0	4.40	13	PASS



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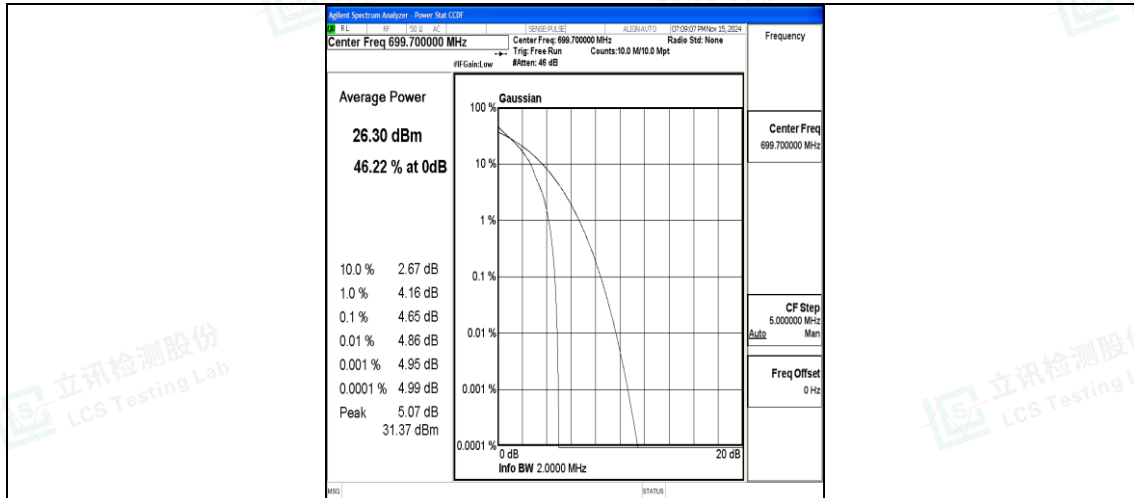


Band12	5MHz	16QAM	23155	1RB#0	5.47	13	PASS
Band12	5MHz	QPSK	23155	25RB#0	5.43	13	PASS
Band12	5MHz	16QAM	23155	25RB#0	6.18	13	PASS
Band12	10MHz	QPSK	23060	1RB#0	4.63	13	PASS
Band12	10MHz	16QAM	23060	1RB#0	5.57	13	PASS
Band12	10MHz	QPSK	23060	50RB#0	5.66	13	PASS
Band12	10MHz	16QAM	23060	50RB#0	6.31	13	PASS
Band12	10MHz	QPSK	23095	1RB#0	4.48	13	PASS
Band12	10MHz	16QAM	23095	1RB#0	5.37	13	PASS
Band12	10MHz	QPSK	23095	50RB#0	5.69	13	PASS
Band12	10MHz	16QAM	23095	50RB#0	6.42	13	PASS
Band12	10MHz	QPSK	23130	1RB#0	5.04	13	PASS
Band12	10MHz	16QAM	23130	1RB#0	5.95	13	PASS
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Band12	10MHz	16QAM	23130	50RB#0	6.20	13	PASS

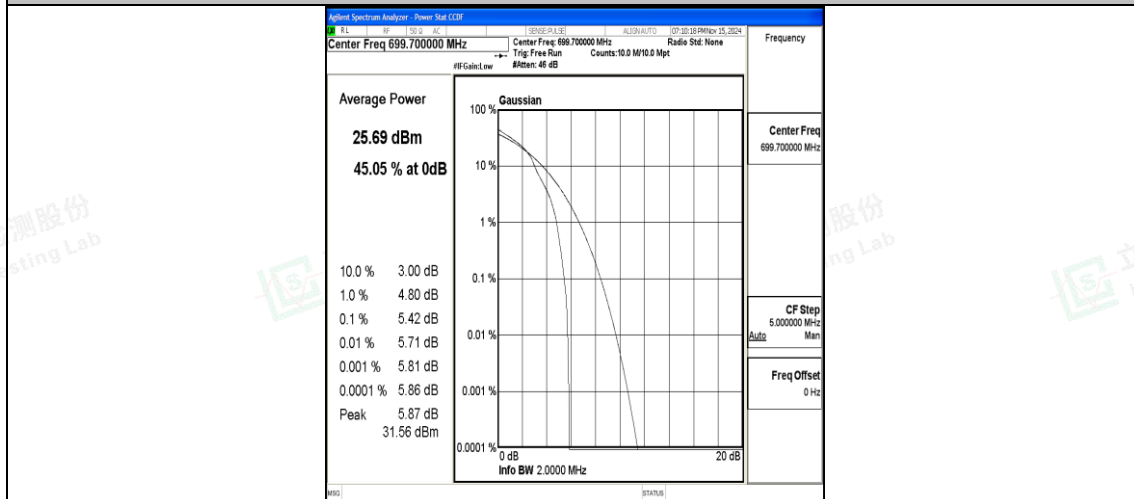




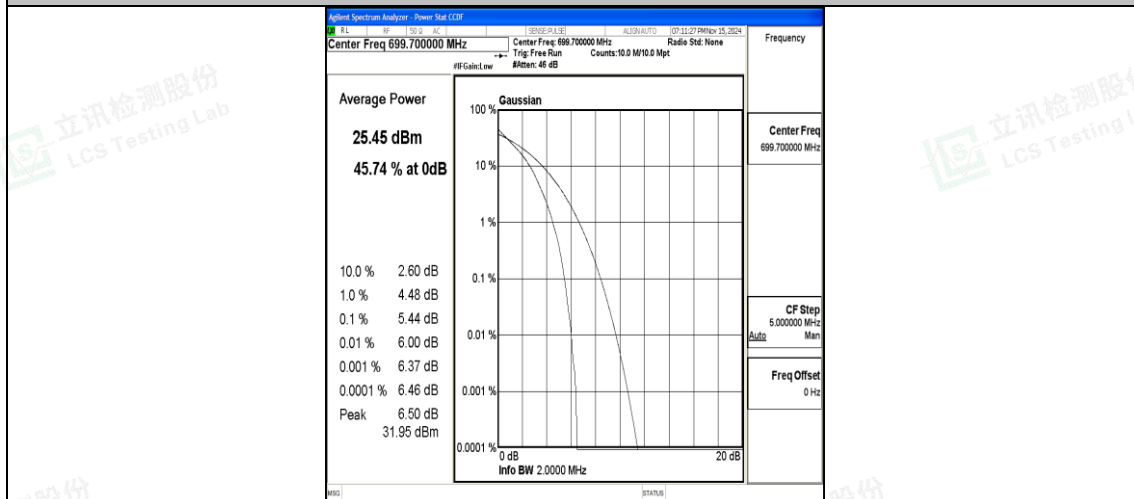
Test Graphs



Band12-1.4MHz-QPSK-23017-1RB#0-PASS



Band12-1.4MHz-16QAM-23017-1RB#0-PASS



Band12-1.4MHz-QPSK-23017-6RB#0-PASS



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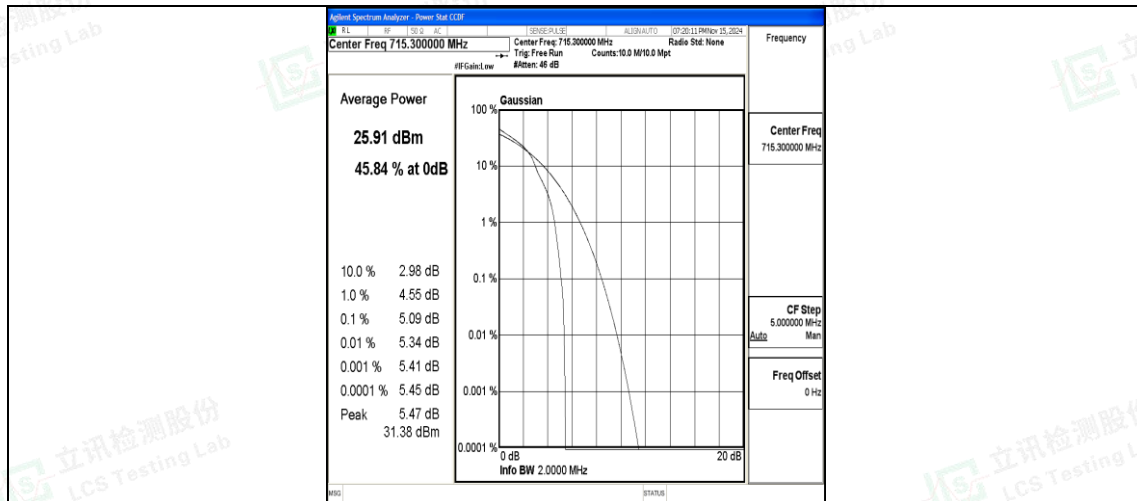


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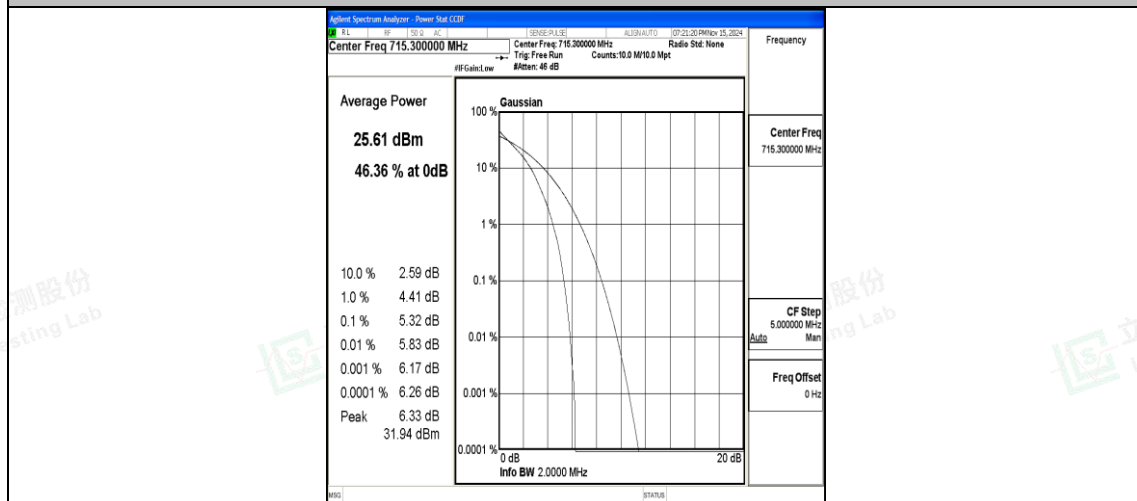
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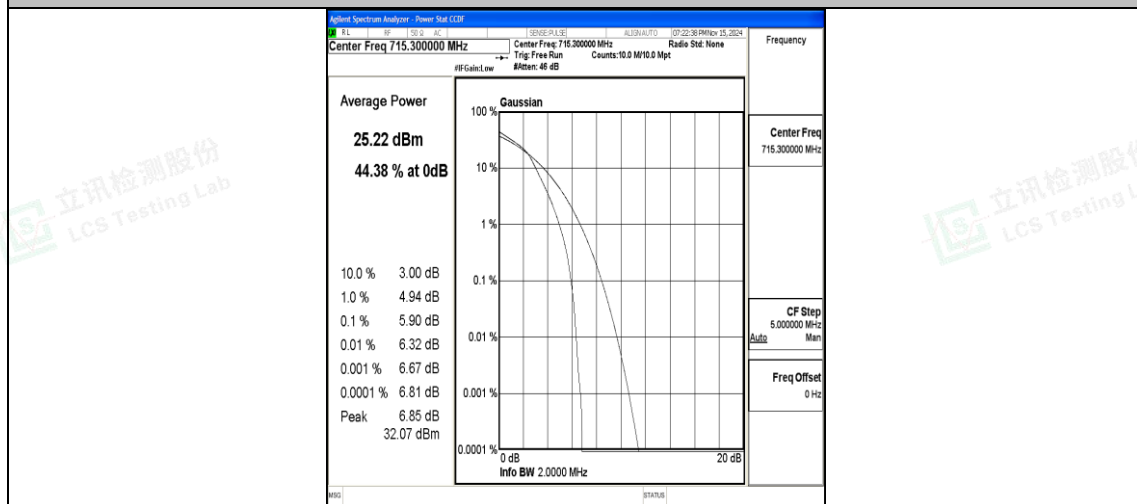
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Band12-1.4MHz-16QAM-23173-1RB#0-PASS



Band12-1.4MHz-QPSK-23173-6RB#0-PASS



Band12-1.4MHz-16QAM-23173-6RB#0-PASS



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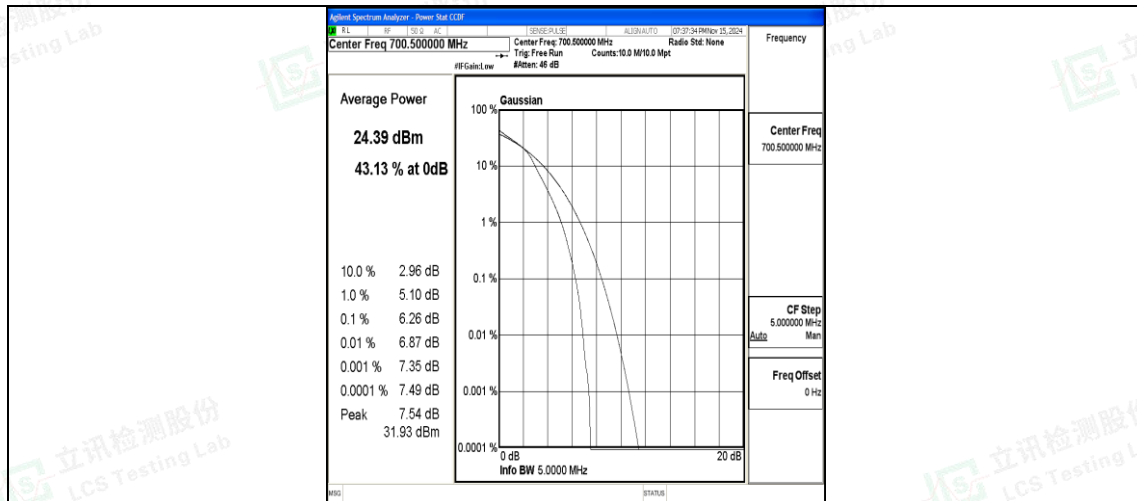


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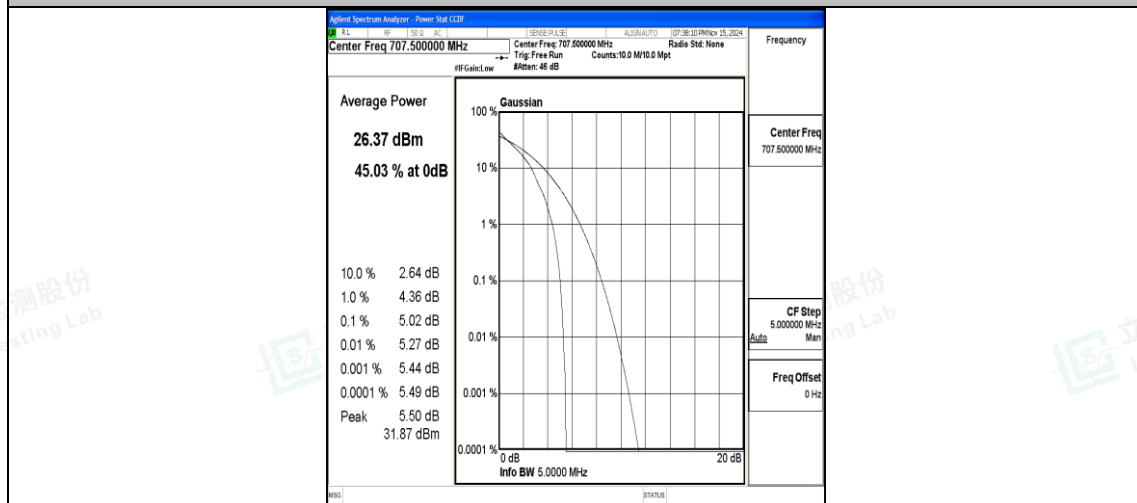
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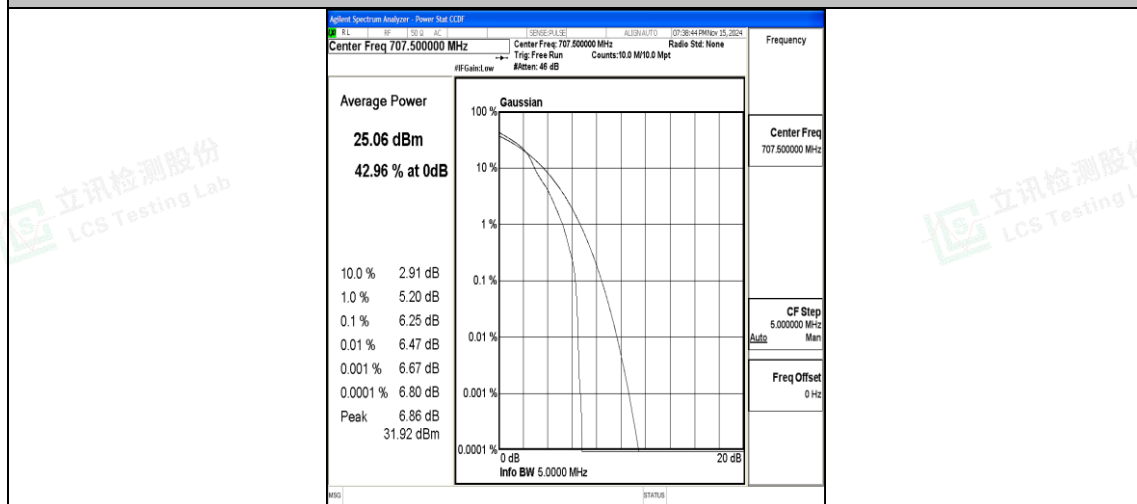
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Band12-3MHz-16QAM-23025-15RB#0-PASS

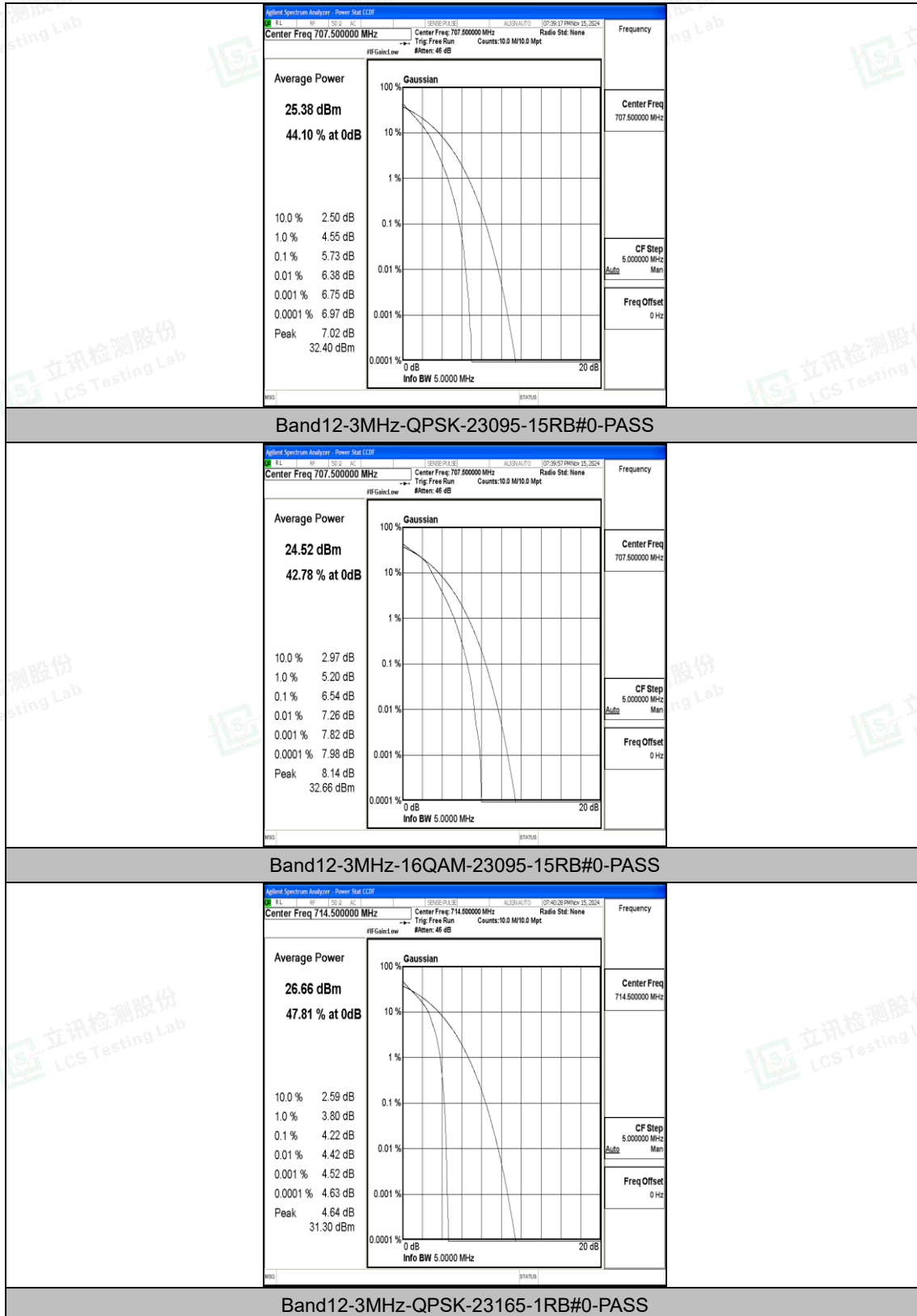


Band12-3MHz-QPSK-23095-1RB#0-PASS



Band12-3MHz-16QAM-23095-1RB#0-PASS





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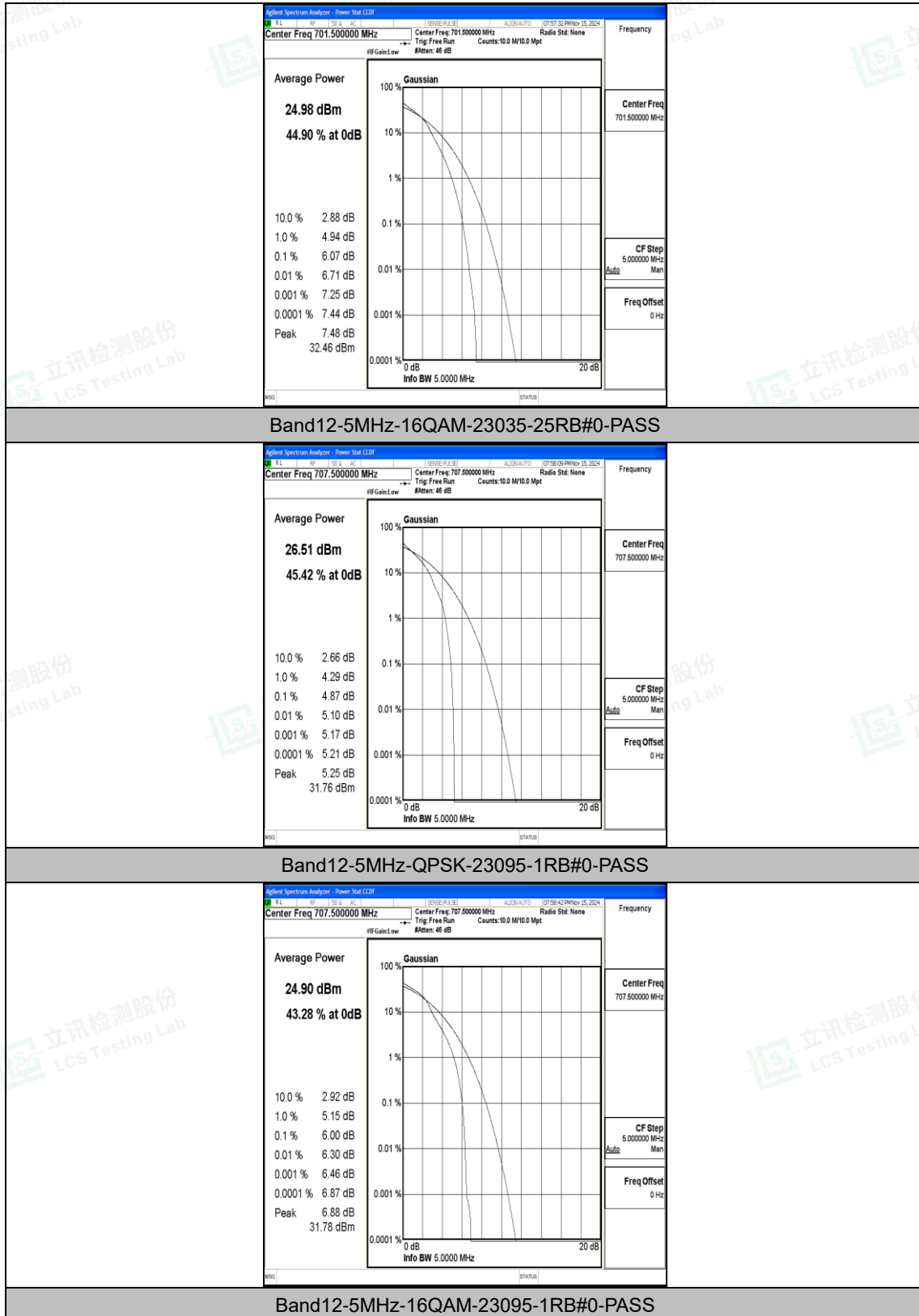
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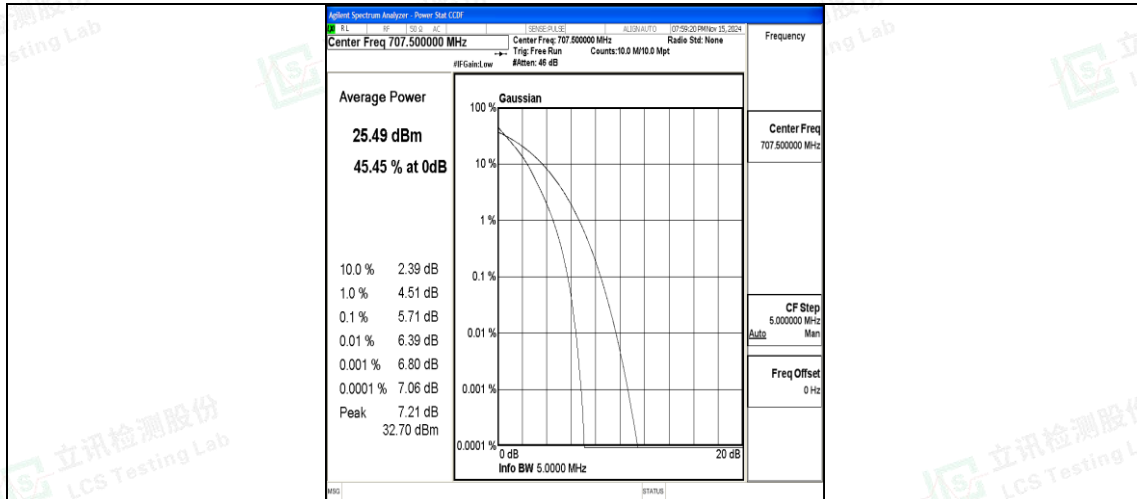
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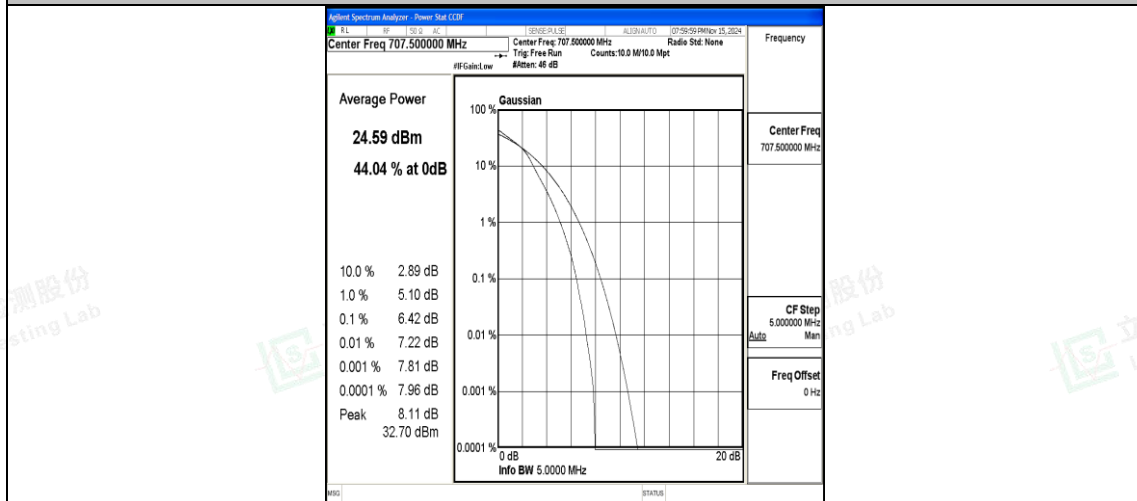




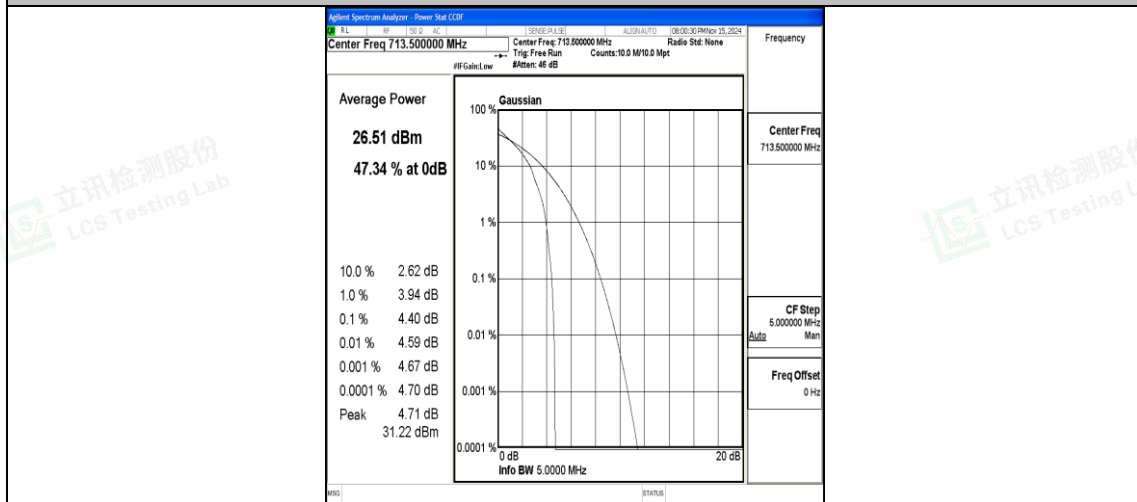




Band12-5MHz-QPSK-23095-25RB#0-PASS



Band12-5MHz-16QAM-23095-25RB#0-PASS



Band12-5MHz-QPSK-23155-1RB#0-PASS



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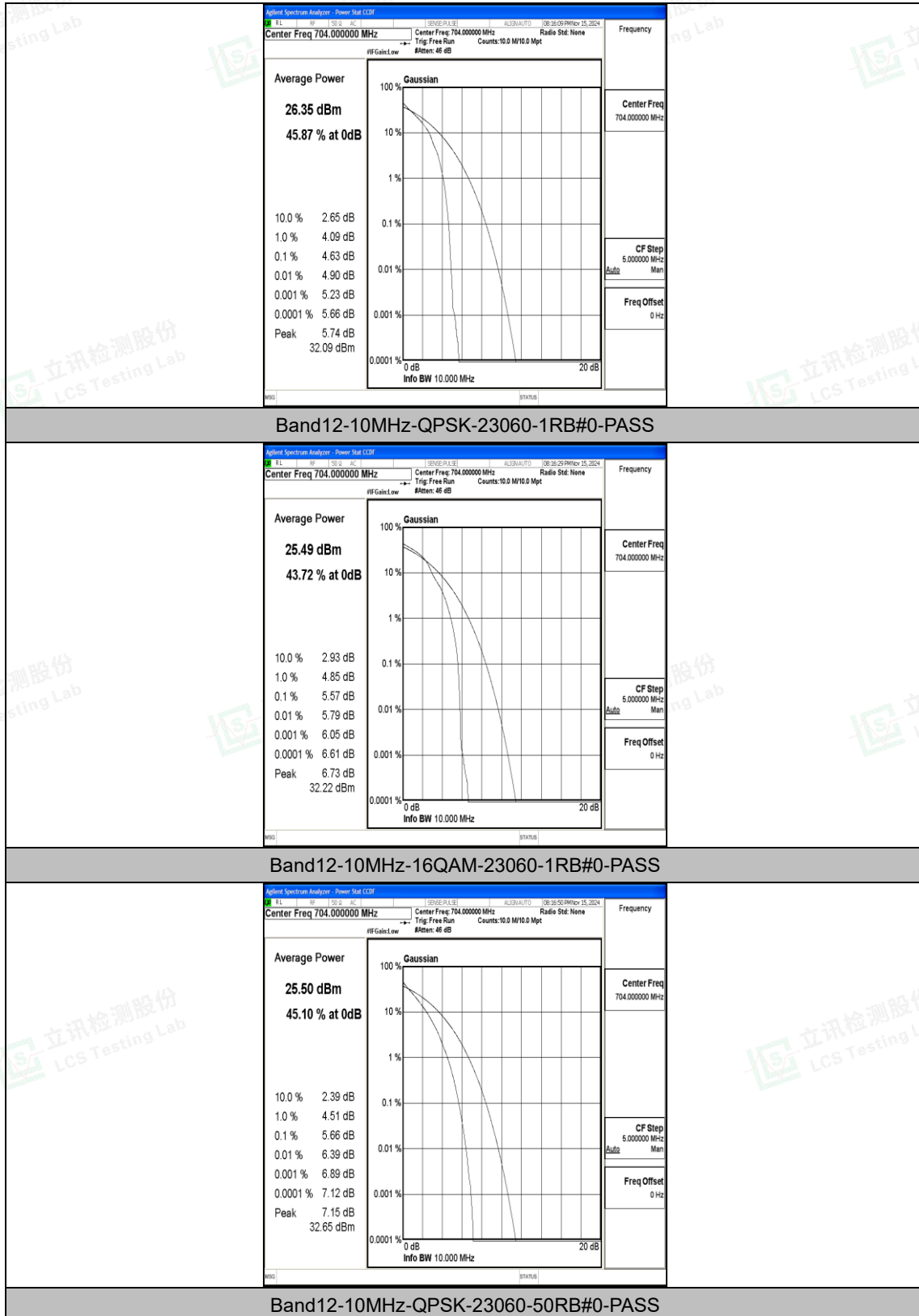


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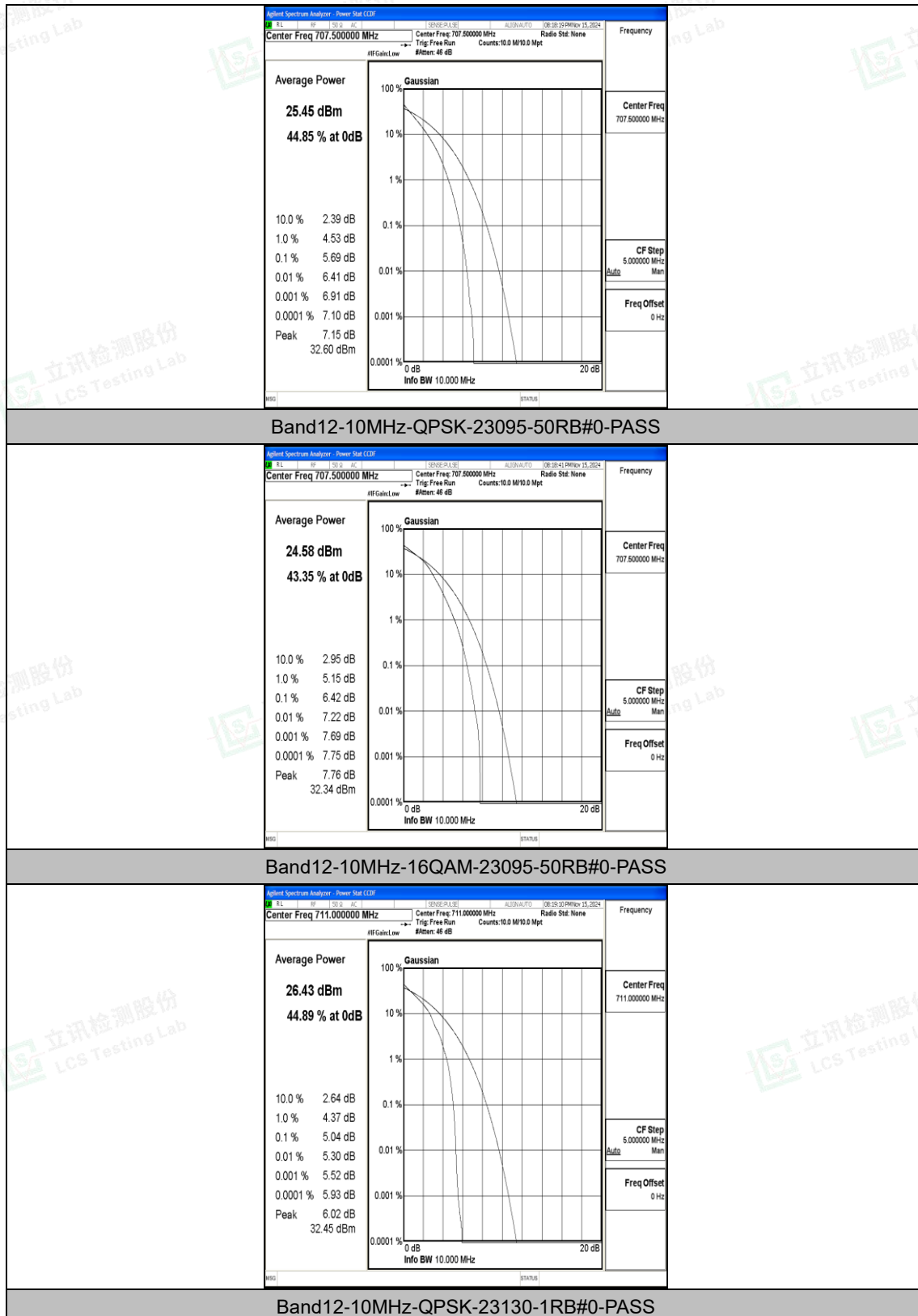


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F.3 26dB Bandwidth and Occupied Bandwidth

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band12	1.4MHz	QPSK	23017	6RB#0	1.0969	1.246	PASS
Band12	1.4MHz	16QAM	23017	6RB#0	1.0923	1.239	PASS
Band12	1.4MHz	QPSK	23095	6RB#0	1.0981	1.248	PASS
Band12	1.4MHz	16QAM	23095	6RB#0	1.0911	1.241	PASS
Band12	1.4MHz	QPSK	23173	6RB#0	1.0915	1.238	PASS
Band12	1.4MHz	16QAM	23173	6RB#0	1.1061	1.244	PASS
Band12	3MHz	QPSK	23025	15RB#0	2.7194	3.021	PASS
Band12	3MHz	16QAM	23025	15RB#0	2.6999	3.023	PASS
Band12	3MHz	QPSK	23095	15RB#0	2.7106	3.013	PASS
Band12	3MHz	16QAM	23095	15RB#0	2.7074	3.005	PASS
Band12	3MHz	QPSK	23165	15RB#0	2.7048	3.030	PASS
Band12	3MHz	16QAM	23165	15RB#0	2.6959	3.025	PASS
Band12	5MHz	QPSK	23035	25RB#0	4.4942	4.969	PASS
Band12	5MHz	16QAM	23035	25RB#0	4.5027	4.956	PASS
Band12	5MHz	QPSK	23095	25RB#0	4.5167	4.979	PASS
Band12	5MHz	16QAM	23095	25RB#0	4.5049	4.949	PASS
Band12	5MHz	QPSK	23155	25RB#0	4.5056	4.967	PASS
Band12	5MHz	16QAM	23155	25RB#0	4.5018	4.950	PASS
Band12	10MHz	QPSK	23060	50RB#0	8.9901	9.908	PASS
Band12	10MHz	16QAM	23060	50RB#0	8.9842	9.915	PASS
Band12	10MHz	QPSK	23095	50RB#0	9.0005	9.863	PASS
Band12	10MHz	16QAM	23095	50RB#0	9.0157	9.924	PASS
Band12	10MHz	QPSK	23130	50RB#0	8.9737	9.843	PASS
Band12	10MHz	16QAM	23130	50RB#0	8.9620	9.905	PASS



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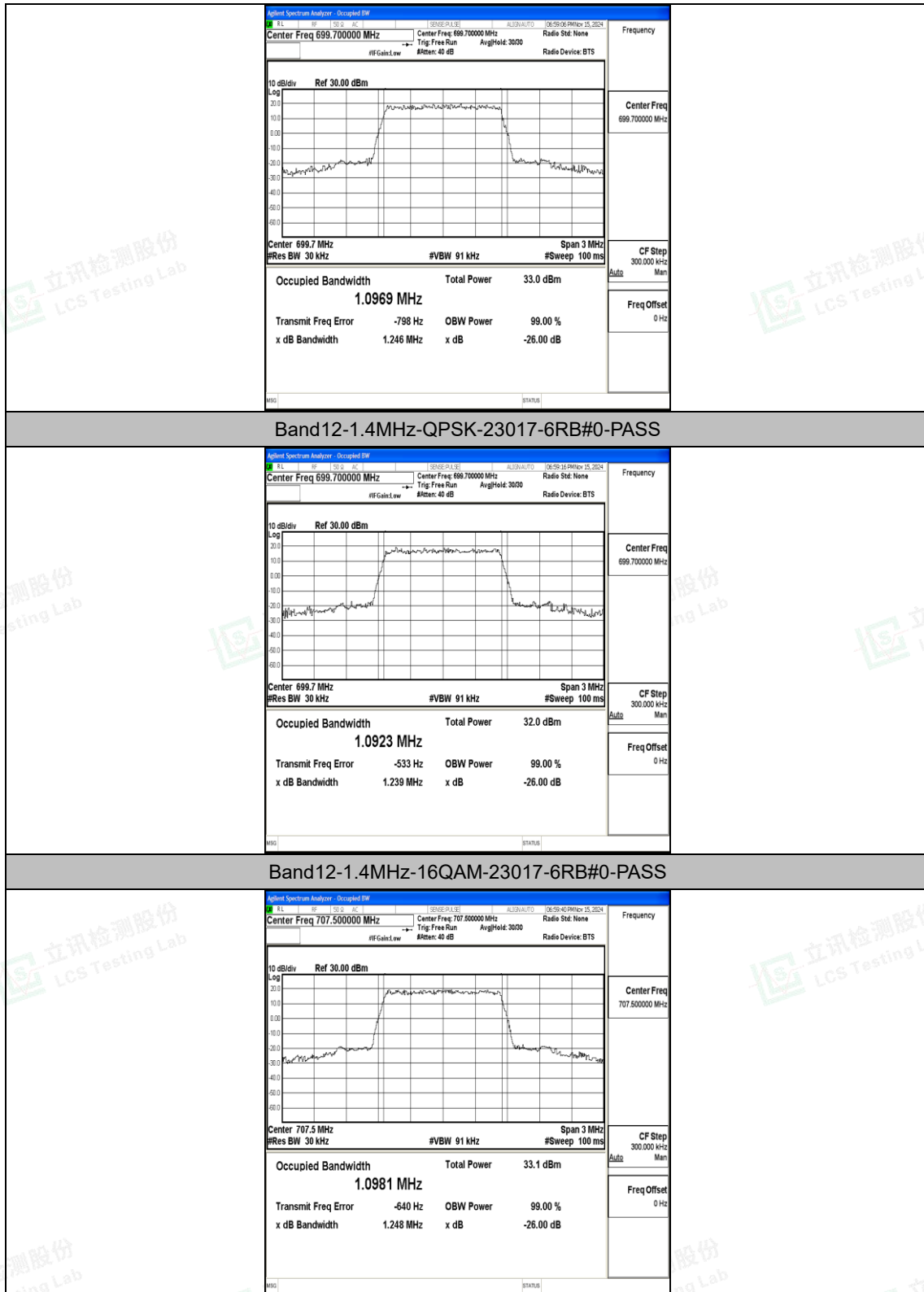
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Test Graphs



Shenzhen LCS Compliance Testing Laboratory Ltd.

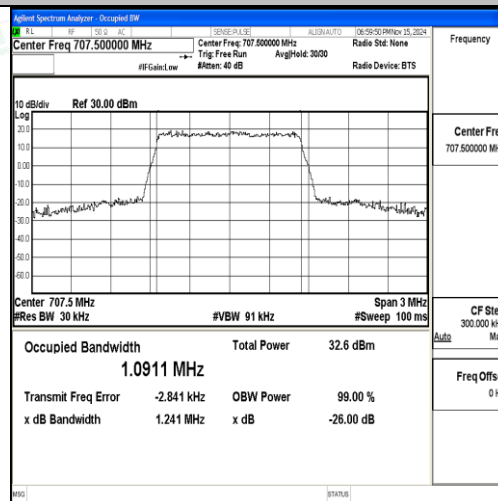
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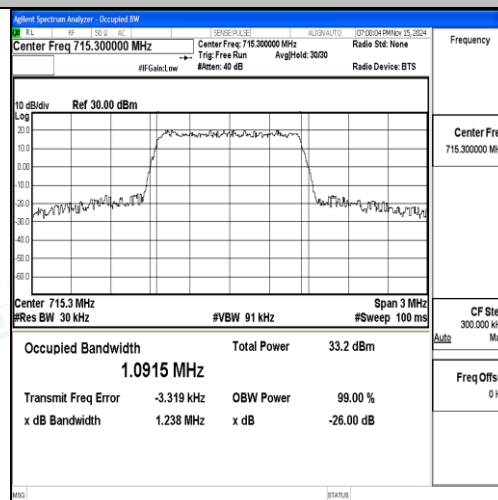
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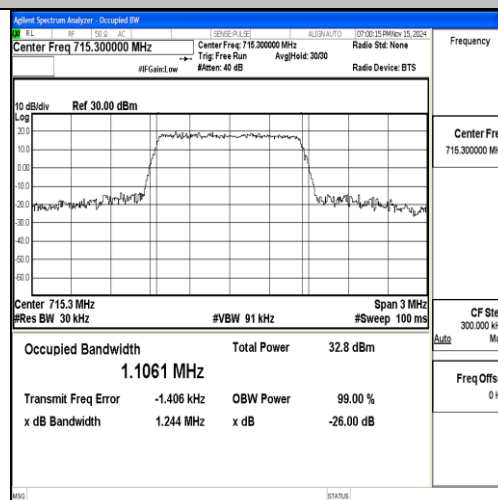
Band12-1.4MHz-QPSK-23095-6RB#0-PASS



Band12-1.4MHz-16QAM-23095-6RB#0-PASS



Band12-1.4MHz-QPSK-23173-6RB#0-PASS



Band12-1.4MHz-16QAM-23173-6RB#0-PASS

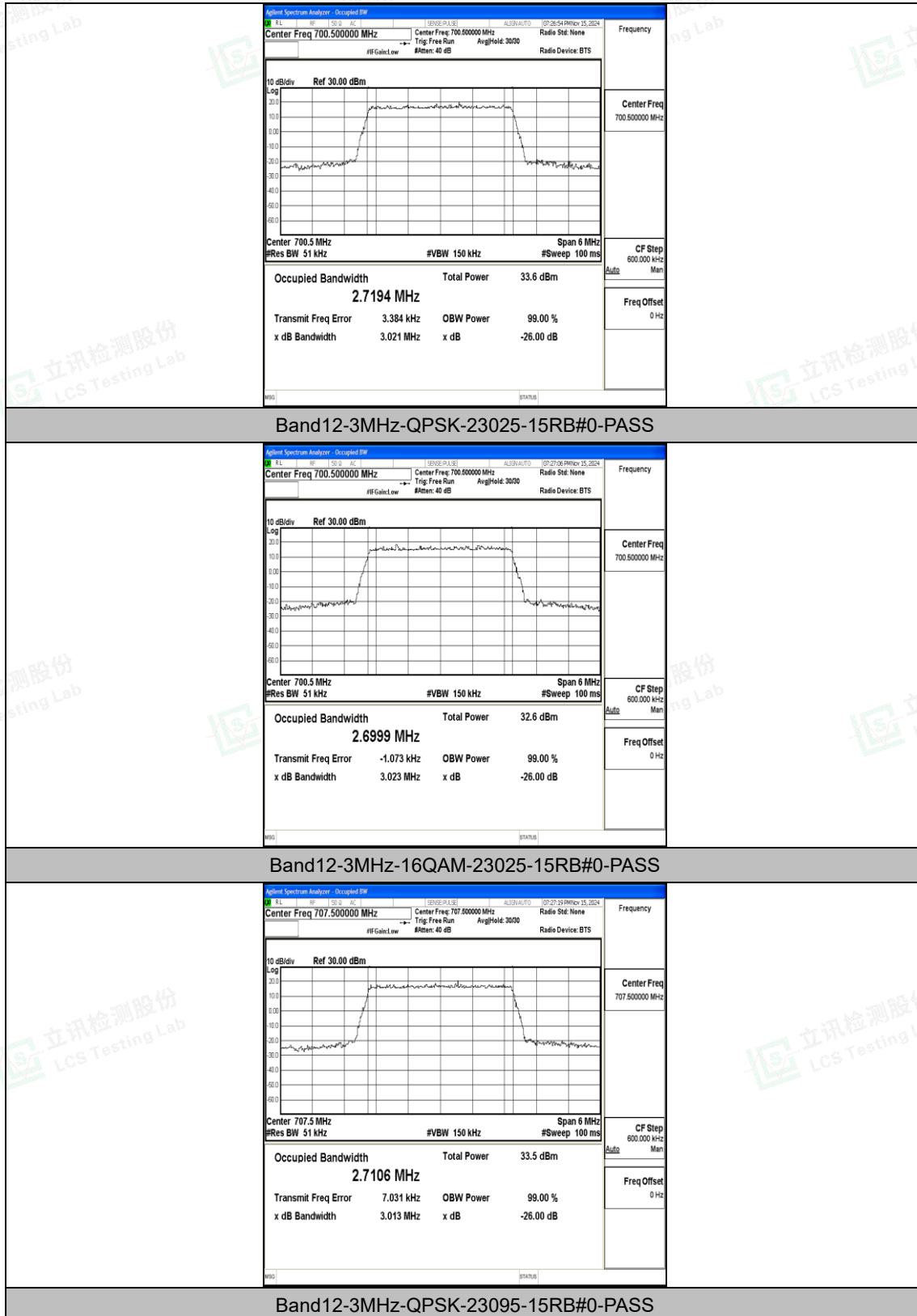


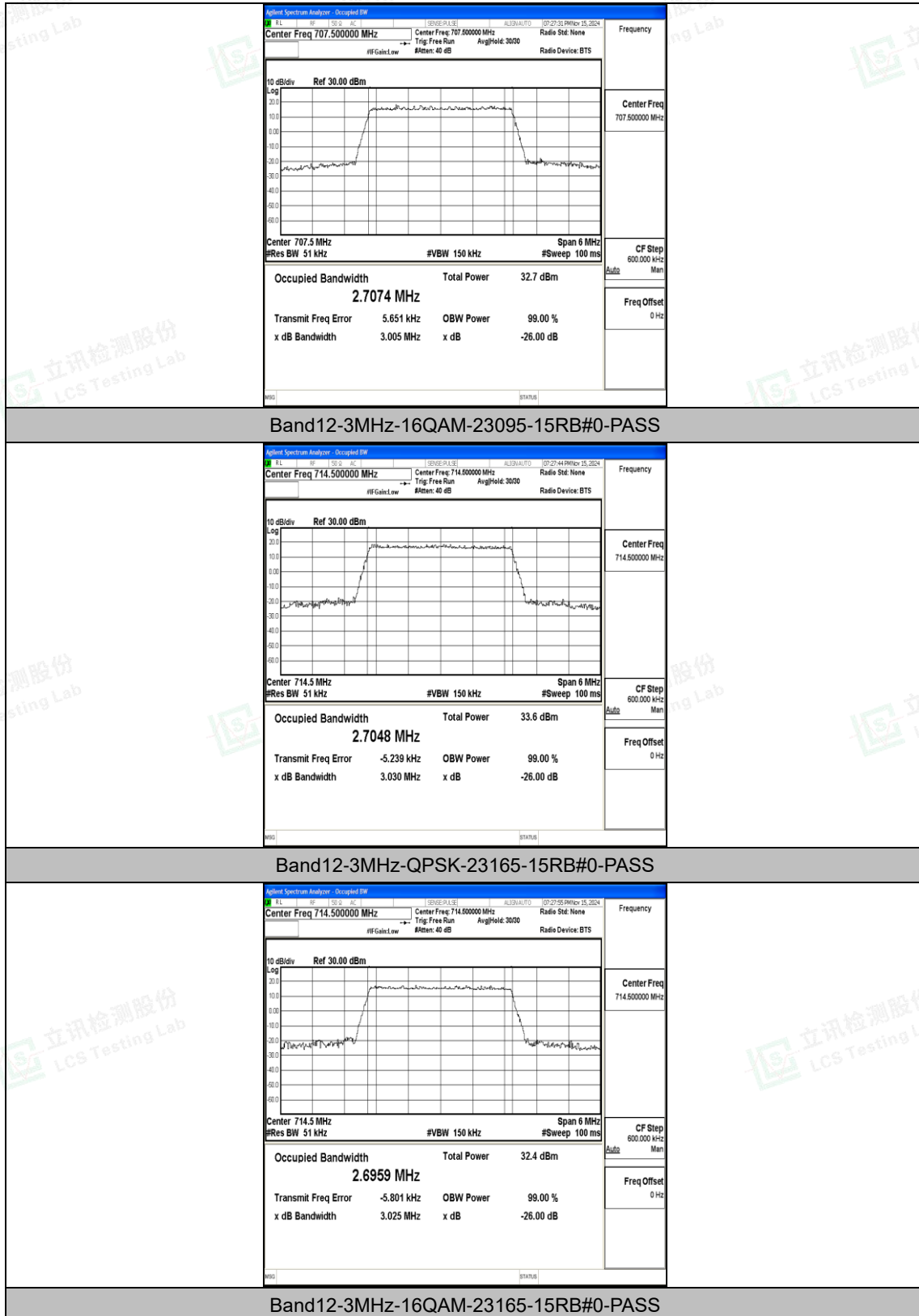
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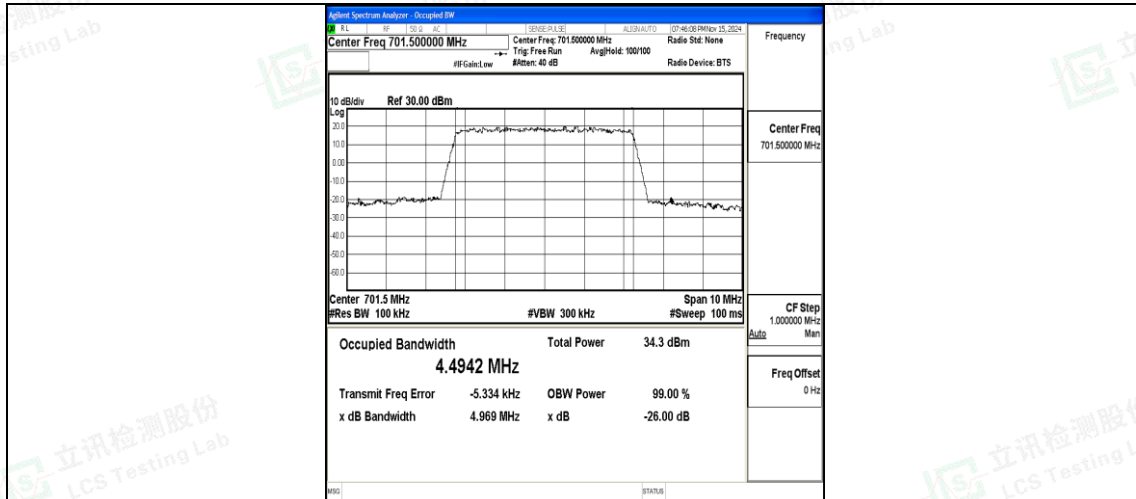
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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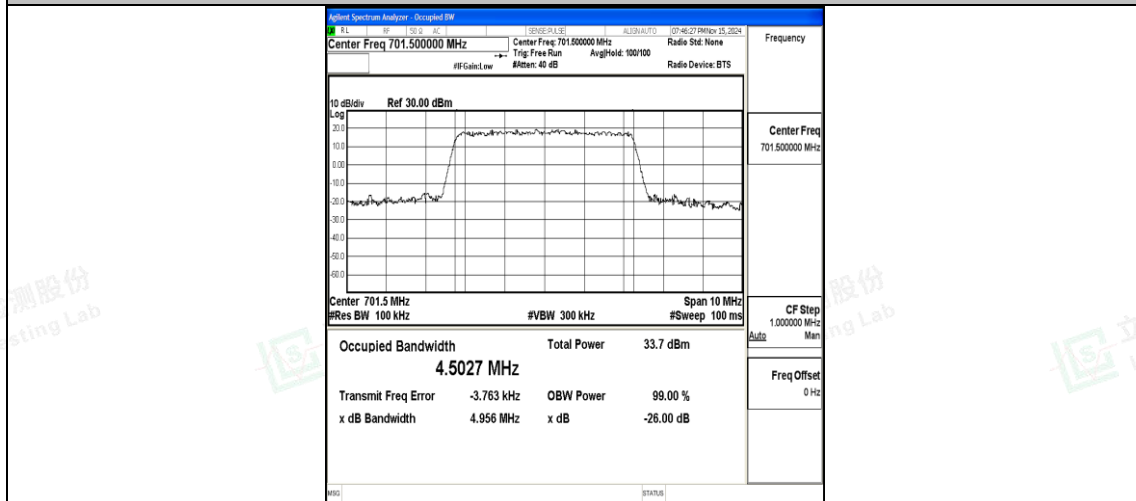
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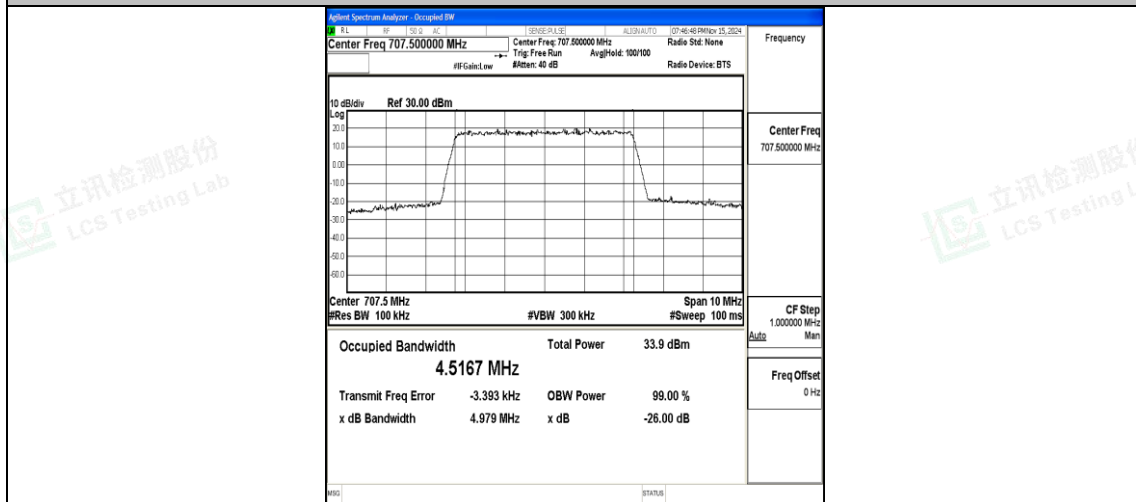




Band12-5MHz-QPSK-23035-25RB#0-PASS

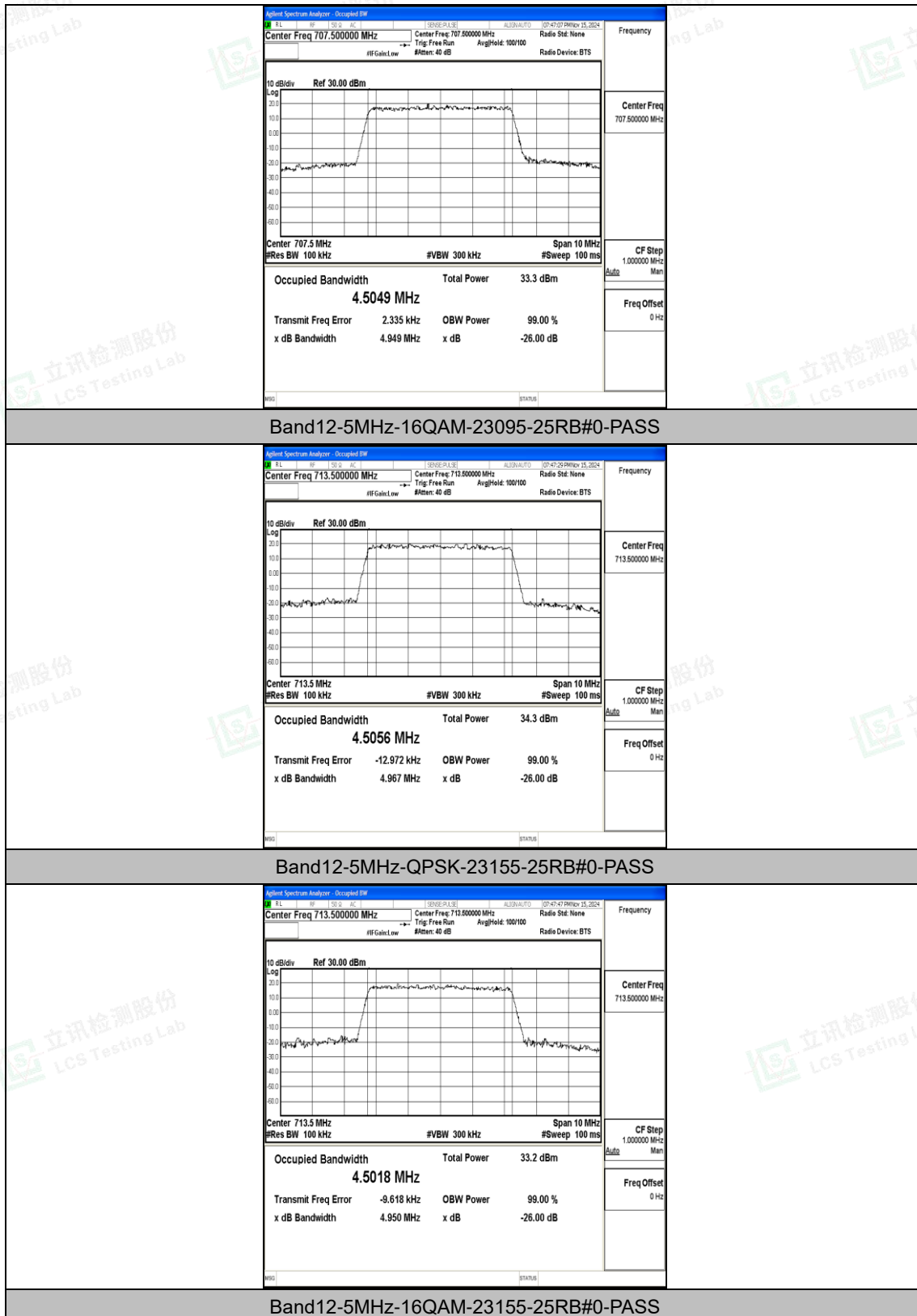


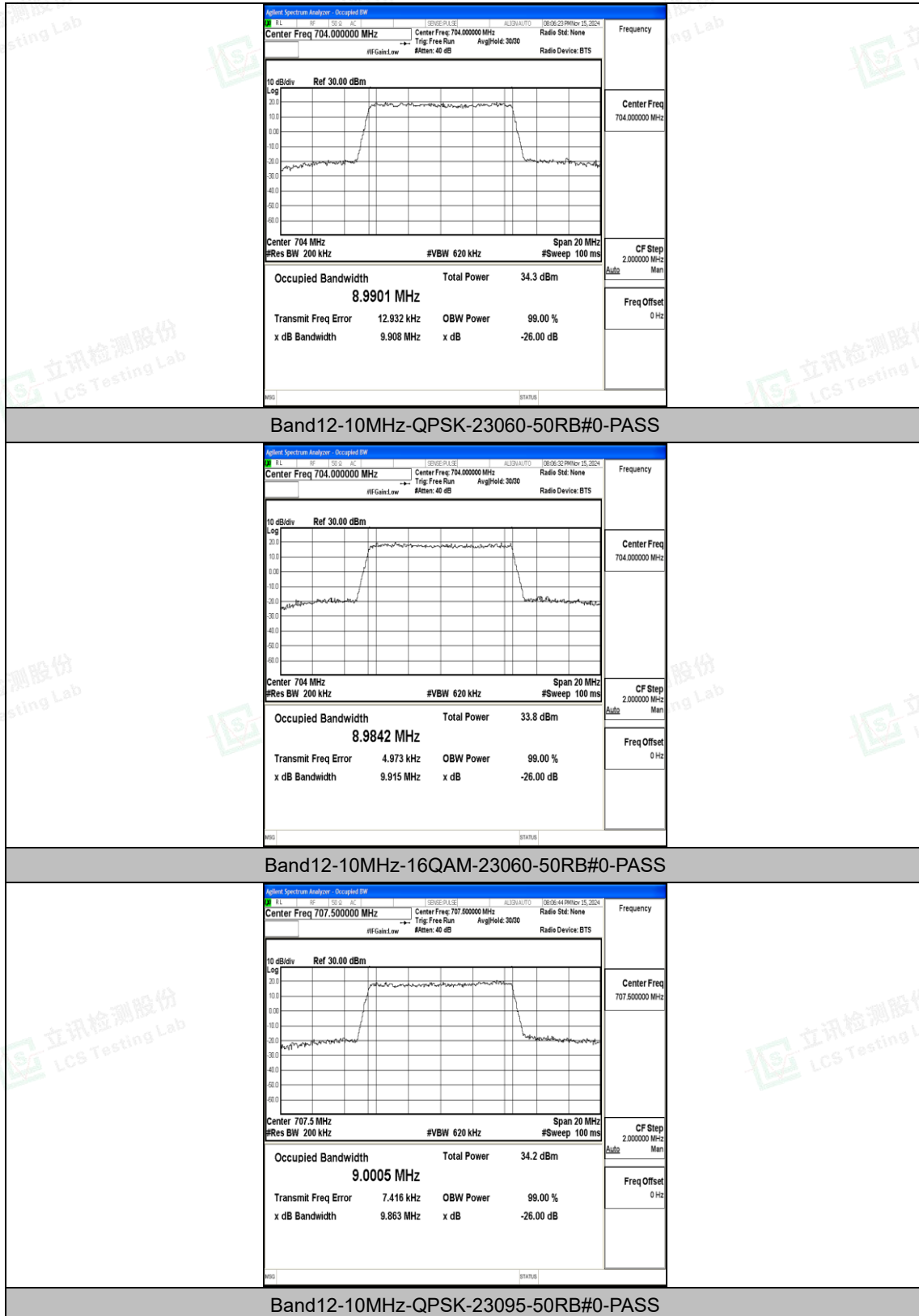
Band12-5MHz-16QAM-23035-25RB#0-PASS

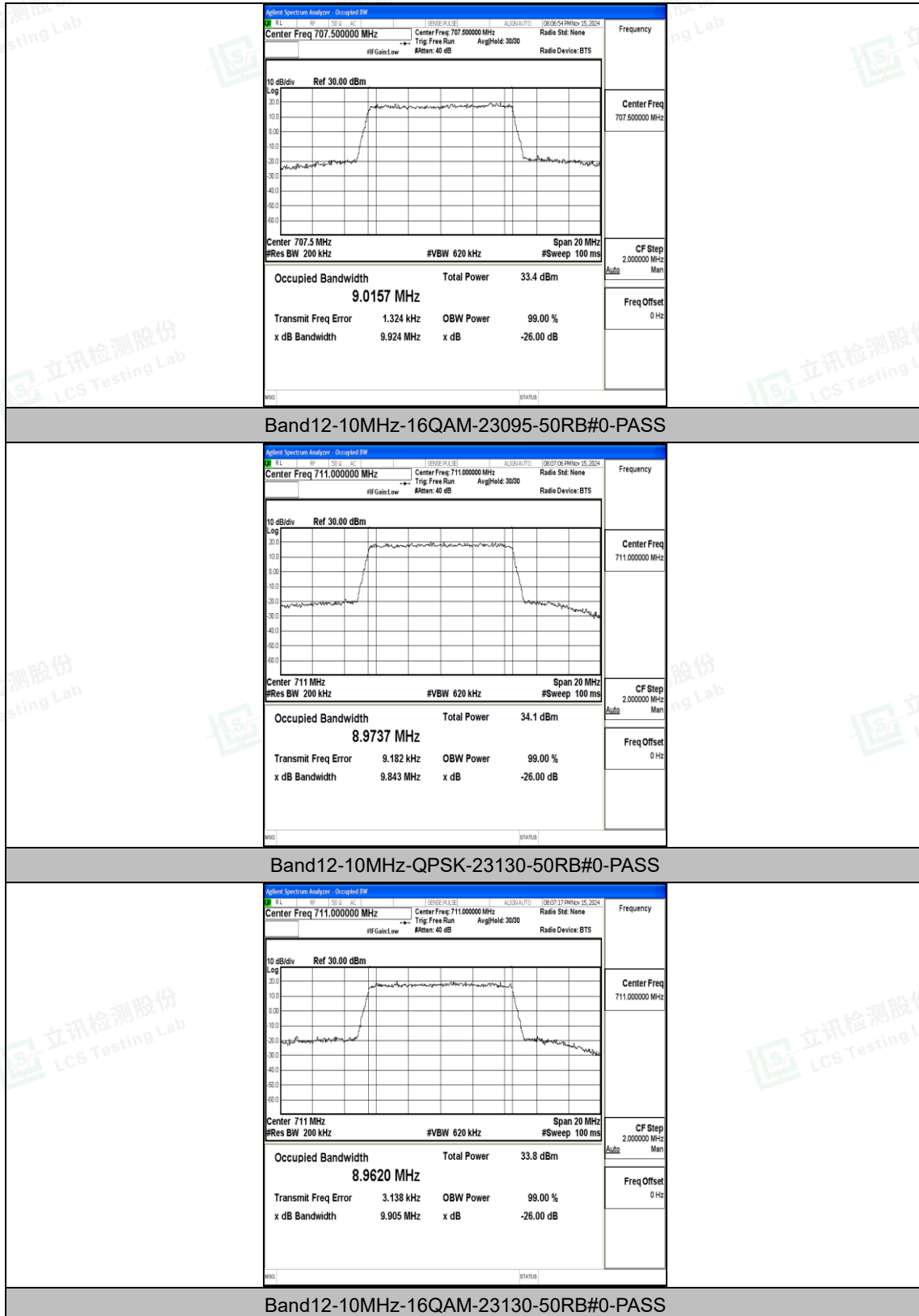


Band12-5MHz-QPSK-23095-25RB#0-PASS











F.4 Band Edge

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Peak Frequency	Result(dBm)	Verdict
Band12	1.4MHz	QPSK	23017	6RB#0	698.77	-27.10	PASS
Band12	1.4MHz	16QAM	23017	6RB#0	698.77	-27.67	PASS
Band12	1.4MHz	QPSK	23173	6RB#0	716.12	-27.95	PASS
Band12	1.4MHz	16QAM	23173	6RB#0	716.12	-26.47	PASS
Band12	3MHz	QPSK	23025	15RB#0	699.00	-21.78	PASS
Band12	3MHz	16QAM	23025	15RB#0	699.00	-23.48	PASS
Band12	3MHz	QPSK	23165	15RB#0	716.01	-21.59	PASS
Band12	3MHz	16QAM	23165	15RB#0	716.01	-23.25	PASS
Band12	5MHz	QPSK	23035	25RB#0	698.86	-32.77	PASS
Band12	5MHz	16QAM	23035	25RB#0	698.89	-32.82	PASS
Band12	5MHz	QPSK	23155	25RB#0	716.13	-34.23	PASS
Band12	5MHz	16QAM	23155	25RB#0	716.29	-34.28	PASS
Band12	10MHz	QPSK	23060	50RB#0	698.69	-36.65	PASS
Band12	10MHz	16QAM	23060	50RB#0	698.80	-35.33	PASS
Band12	10MHz	QPSK	23130	50RB#0	716.14	-36.09	PASS
Band12	10MHz	16QAM	23130	50RB#0	716.26	-35.67	PASS

Test Graphs

