



Appendix B: Test Data for CatM1 Band 2

Product Name: Gulliver

Test Model: Gulliver

Environmental Conditions

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





B.1 Conducted Output Power Data

Test Result

Band	Bandwidth	Modulation	Channel	RB Size	RB Start	NBIndex	Result(dBm)	Verdict
Band2	1.4MHz	18607	QPSK	1	0	Low	22.77	PASS
Band2	1.4MHz	18607	QPSK	1	5	Low	22.77	PASS
Band2	1.4MHz	18607	QPSK	6	0	Low	22.97	PASS
Band2	1.4MHz	18900	QPSK	1	0	Low	22.88	PASS
Band2	1.4MHz	18900	QPSK	1	5	Low	22.72	PASS
Band2	1.4MHz	18900	QPSK	6	0	Low	22.55	PASS
Band2	1.4MHz	19193	QPSK	1	0	High	22.92	PASS
Band2	1.4MHz	19193	QPSK	1	5	High	22.35	PASS
Band2	1.4MHz	19193	QPSK	6	0	High	22.90	PASS
Band2	1.4MHz	18607	16QAM	1	0	Low	22.87	PASS
Band2	1.4MHz	18607	16QAM	1	5	Low	22.89	PASS
Band2	1.4MHz	18607	16QAM	6	0	Low	22.96	PASS
Band2	1.4MHz	18900	16QAM	1	0	Low	22.99	PASS
Band2	1.4MHz	18900	16QAM	1	5	Low	22.30	PASS
Band2	1.4MHz	18900	16QAM	6	0	Low	22.29	PASS
Band2	1.4MHz	19193	16QAM	1	0	High	22.71	PASS
Band2	1.4MHz	19193	16QAM	1	5	High	22.58	PASS
Band2	1.4MHz	19193	16QAM	6	0	High	22.94	PASS
Band2	3MHz	18615	QPSK	1	0	Low	22.61	PASS
Band2	3MHz	18615	QPSK	1	5	Low	22.54	PASS
Band2	3MHz	18615	QPSK	6	0	Low	22.23	PASS
Band2	3MHz	18900	QPSK	1	0	Low	22.34	PASS
Band2	3MHz	18900	QPSK	1	5	Low	22.39	PASS
Band2	3MHz	18900	QPSK	6	0	Low	22.77	PASS
Band2	3MHz	19185	QPSK	1	0	High	22.76	PASS
Band2	3MHz	19185	QPSK	1	5	High	22.03	PASS
Band2	3MHz	19185	QPSK	6	0	High	22.17	PASS
Band2	3MHz	18615	16QAM	1	0	Low	22.53	PASS
Band2	3MHz	18615	16QAM	1	5	Low	22.17	PASS
Band2	3MHz	18615	16QAM	6	0	Low	22.04	PASS
Band2	3MHz	18900	16QAM	1	0	Low	22.50	PASS
Band2	3MHz	18900	16QAM	1	5	Low	22.66	PASS
Band2	3MHz	18900	16QAM	6	0	Low	22.70	PASS
Band2	3MHz	19185	16QAM	1	0	High	22.35	PASS
Band2	3MHz	19185	16QAM	1	5	High	22.48	PASS
Band2	3MHz	19185	16QAM	6	0	High	22.54	PASS



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Band2	5MHz	18625	QPSK	1	0	Low	22.25	PASS
Band2	5MHz	18625	QPSK	1	5	Low	22.11	PASS
Band2	5MHz	18625	QPSK	6	0	Low	22.48	PASS
Band2	5MHz	18900	QPSK	1	0	Low	22.08	PASS
Band2	5MHz	18900	QPSK	1	5	Low	22.29	PASS
Band2	5MHz	18900	QPSK	6	0	Low	21.93	PASS
Band2	5MHz	19175	QPSK	1	0	High	22.41	PASS
Band2	5MHz	19175	QPSK	1	5	High	22.64	PASS
Band2	5MHz	19175	QPSK	6	0	High	22.07	PASS
Band2	5MHz	18625	16QAM	1	0	Low	22.54	PASS
Band2	5MHz	18625	16QAM	1	5	Low	22.29	PASS
Band2	5MHz	18625	16QAM	6	0	Low	22.27	PASS
Band2	5MHz	18900	16QAM	1	0	Low	22.22	PASS
Band2	5MHz	18900	16QAM	1	5	Low	22.51	PASS
Band2	5MHz	18900	16QAM	6	0	Low	21.94	PASS
Band2	5MHz	19175	16QAM	1	0	High	22.20	PASS
Band2	5MHz	19175	16QAM	1	5	High	22.11	PASS
Band2	5MHz	19175	16QAM	6	0	High	22.01	PASS
Band2	10MHz	18650	QPSK	1	0	Low	22.63	PASS
Band2	10MHz	18650	QPSK	1	5	Low	22.48	PASS
Band2	10MHz	18650	QPSK	6	0	Low	22.44	PASS
Band2	10MHz	18900	QPSK	1	0	Low	22.08	PASS
Band2	10MHz	18900	QPSK	1	5	Low	21.96	PASS
Band2	10MHz	18900	QPSK	6	0	Low	22.24	PASS
Band2	10MHz	19150	QPSK	1	0	High	22.58	PASS
Band2	10MHz	19150	QPSK	1	5	High	22.59	PASS
Band2	10MHz	19150	QPSK	6	0	High	22.58	PASS
Band2	10MHz	18650	16QAM	1	0	Low	22.64	PASS
Band2	10MHz	18650	16QAM	1	5	Low	22.12	PASS
Band2	10MHz	18650	16QAM	6	0	Low	22.61	PASS
Band2	10MHz	18900	16QAM	1	0	Low	22.10	PASS
Band2	10MHz	18900	16QAM	1	5	Low	22.10	PASS
Band2	10MHz	18900	16QAM	6	0	Low	22.42	PASS
Band2	10MHz	19150	16QAM	1	0	High	21.94	PASS
Band2	10MHz	19150	16QAM	1	5	High	22.34	PASS
Band2	10MHz	19150	16QAM	6	0	High	22.34	PASS
Band2	15MHz	18675	QPSK	1	0	Low	22.30	PASS
Band2	15MHz	18675	QPSK	1	5	Low	22.34	PASS
Band2	15MHz	18675	QPSK	6	0	Low	22.07	PASS
Band2	15MHz	18900	QPSK	1	0	Low	22.21	PASS
Band2	15MHz	18900	QPSK	1	5	Low	21.74	PASS
Band2	15MHz	18900	QPSK	6	0	Low	21.74	PASS



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Band2	15MHz	19125	QPSK	1	0	High	21.84	PASS
Band2	15MHz	19125	QPSK	1	5	High	21.83	PASS
Band2	15MHz	19125	QPSK	6	0	High	22.28	PASS
Band2	15MHz	18675	16QAM	1	0	Low	22.39	PASS
Band2	15MHz	18675	16QAM	1	5	Low	21.97	PASS
Band2	15MHz	18675	16QAM	6	0	Low	21.84	PASS
Band2	15MHz	18900	16QAM	1	0	Low	22.03	PASS
Band2	15MHz	18900	16QAM	1	5	Low	22.34	PASS
Band2	15MHz	18900	16QAM	6	0	Low	22.15	PASS
Band2	15MHz	19125	16QAM	1	0	High	22.30	PASS
Band2	15MHz	19125	16QAM	1	5	High	21.98	PASS
Band2	15MHz	19125	16QAM	6	0	High	22.43	PASS
Band2	20MHz	18700	QPSK	1	0	Low	22.06	PASS
Band2	20MHz	18700	QPSK	1	5	Low	22.43	PASS
Band2	20MHz	18700	QPSK	6	0	Low	22.01	PASS
Band2	20MHz	18900	QPSK	1	0	Low	22.22	PASS
Band2	20MHz	18900	QPSK	1	5	Low	22.44	PASS
Band2	20MHz	18900	QPSK	6	0	Low	22.06	PASS
Band2	20MHz	19100	QPSK	1	0	High	22.28	PASS
Band2	20MHz	19100	QPSK	1	5	High	21.98	PASS
Band2	20MHz	19100	QPSK	6	0	High	22.36	PASS
Band2	20MHz	18700	16QAM	1	0	Low	22.23	PASS
Band2	20MHz	18700	16QAM	1	5	Low	22.01	PASS
Band2	20MHz	18700	16QAM	6	0	Low	22.18	PASS
Band2	20MHz	18900	16QAM	1	0	Low	22.02	PASS
Band2	20MHz	18900	16QAM	1	5	Low	22.42	PASS
Band2	20MHz	18900	16QAM	6	0	Low	22.35	PASS
Band2	20MHz	19100	16QAM	1	0	High	22.16	PASS
Band2	20MHz	19100	16QAM	1	5	High	22.31	PASS
Band2	20MHz	19100	16QAM	6	0	High	21.82	PASS





B.2 Peak-to-Average Ratio(CCDF) for M1

Test Result

Band	Bandwidth	Modulation	Channel	RB Size	RB Start	NBIndex	Result(dB)	Limit(dB)	Verdict
Band2	1.4MHz	18607	QPSK	1	0	Low	8.97	<=13	PASS
Band2	1.4MHz	18607	QPSK	6	0	Low	9.04	<=13	PASS
Band2	1.4MHz	18900	QPSK	1	0	Low	6.13	<=13	PASS
Band2	1.4MHz	18900	QPSK	6	0	Low	9.67	<=13	PASS
Band2	1.4MHz	19193	QPSK	1	0	High	8.47	<=13	PASS
Band2	1.4MHz	19193	QPSK	6	0	High	10.04	<=13	PASS
Band2	1.4MHz	18607	16QAM	1	0	Low	10.81	<=13	PASS
Band2	1.4MHz	18607	16QAM	6	0	Low	10.53	<=13	PASS
Band2	1.4MHz	18900	16QAM	1	0	Low	9.02	<=13	PASS
Band2	1.4MHz	18900	16QAM	6	0	Low	10.05	<=13	PASS
Band2	1.4MHz	19193	16QAM	1	0	High	8.81	<=13	PASS
Band2	1.4MHz	19193	16QAM	6	0	High	11.82	<=13	PASS
Band2	3MHz	18615	QPSK	1	0	Low	9.08	<=13	PASS
Band2	3MHz	18615	QPSK	6	0	Low	10.54	<=13	PASS
Band2	3MHz	18900	QPSK	1	0	Low	9.47	<=13	PASS
Band2	3MHz	18900	QPSK	6	0	Low	9.54	<=13	PASS
Band2	3MHz	19185	QPSK	1	0	High	9.67	<=13	PASS
Band2	3MHz	19185	QPSK	6	0	High	10.08	<=13	PASS
Band2	3MHz	18615	16QAM	1	0	Low	12.29	<=13	PASS
Band2	3MHz	18615	16QAM	6	0	Low	9.81	<=13	PASS
Band2	3MHz	18900	16QAM	1	0	Low	9.72	<=13	PASS
Band2	3MHz	18900	16QAM	6	0	Low	11.18	<=13	PASS
Band2	3MHz	19185	16QAM	1	0	High	10.19	<=13	PASS
Band2	3MHz	19185	16QAM	6	0	High	12.42	<=13	PASS
Band2	5MHz	18625	QPSK	1	0	Low	9.03	<=13	PASS
Band2	5MHz	18625	QPSK	6	0	Low	12.63	<=13	PASS
Band2	5MHz	18900	QPSK	1	0	Low	9.01	<=13	PASS
Band2	5MHz	18900	QPSK	6	0	Low	8.95	<=13	PASS
Band2	5MHz	19175	QPSK	1	0	High	10.13	<=13	PASS
Band2	5MHz	19175	QPSK	6	0	High	9.63	<=13	PASS
Band2	5MHz	18625	16QAM	1	0	Low	8.00	<=13	PASS
Band2	5MHz	18625	16QAM	6	0	Low	8.71	<=13	PASS
Band2	5MHz	18900	16QAM	1	0	Low	9.86	<=13	PASS
Band2	5MHz	18900	16QAM	6	0	Low	9.73	<=13	PASS



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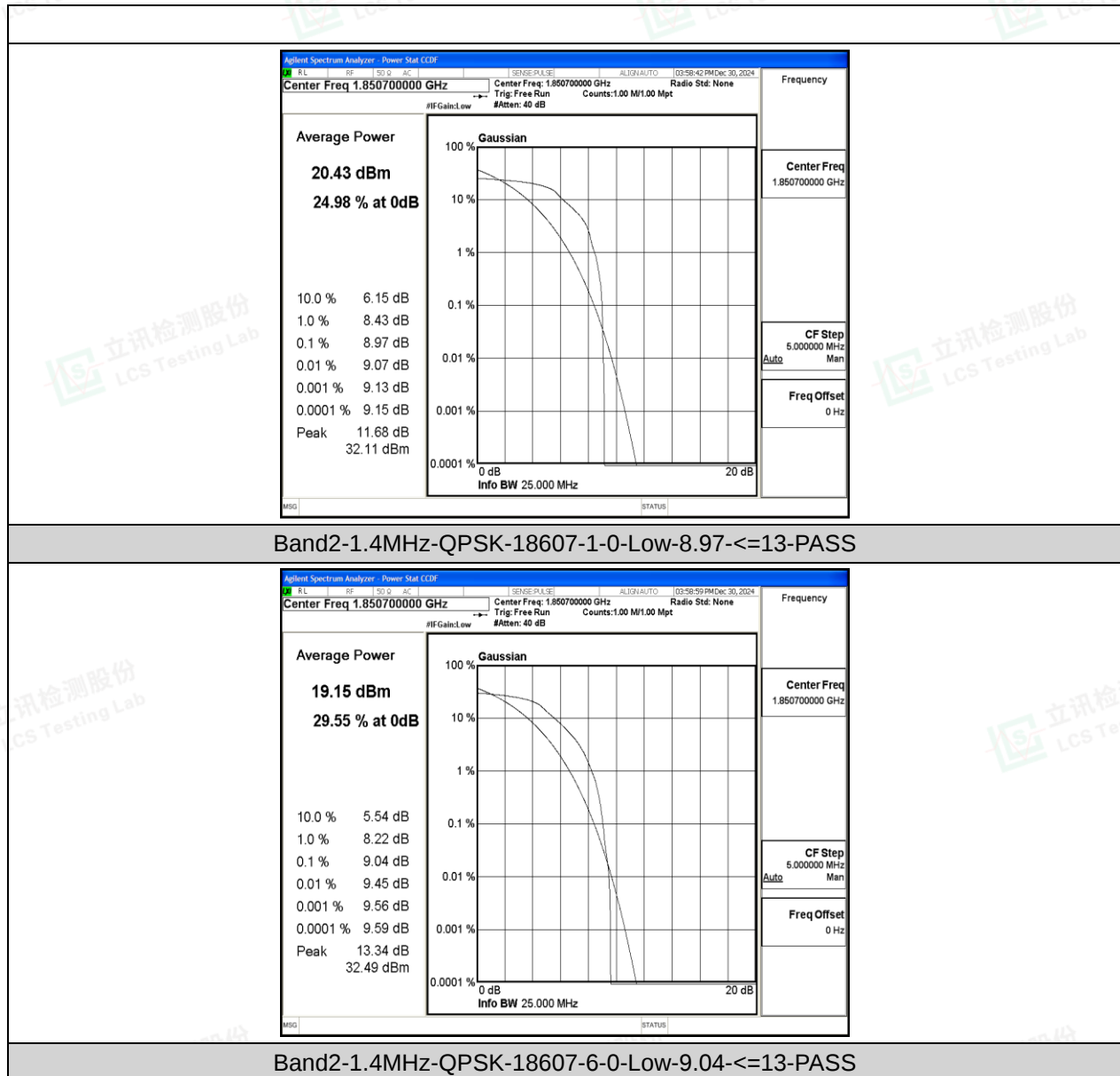


Band2	5MHz	19175	16QAM	1	0	High	9.84	<=13	PASS
Band2	5MHz	19175	16QAM	6	0	High	8.32	<=13	PASS
Band2	10MHz	18650	QPSK	1	0	Low	8.22	<=13	PASS
Band2	10MHz	18650	QPSK	6	0	Low	10.14	<=13	PASS
Band2	10MHz	18900	QPSK	1	0	Low	9.11	<=13	PASS
Band2	10MHz	18900	QPSK	6	0	Low	9.16	<=13	PASS
Band2	10MHz	19150	QPSK	1	0	High	9.85	<=13	PASS
Band2	10MHz	19150	QPSK	6	0	High	12.58	<=13	PASS
Band2	10MHz	18650	16QAM	1	0	Low	8.78	<=13	PASS
Band2	10MHz	18650	16QAM	6	0	Low	8.81	<=13	PASS
Band2	10MHz	18900	16QAM	1	0	Low	9.79	<=13	PASS
Band2	10MHz	18900	16QAM	6	0	Low	8.16	<=13	PASS
Band2	10MHz	19150	16QAM	1	0	High	9.35	<=13	PASS
Band2	10MHz	19150	16QAM	6	0	High	9.50	<=13	PASS
Band2	15MHz	18675	QPSK	1	0	Low	8.53	<=13	PASS
Band2	15MHz	18675	QPSK	6	0	Low	8.83	<=13	PASS
Band2	15MHz	18900	QPSK	1	0	Low	9.42	<=13	PASS
Band2	15MHz	18900	QPSK	6	0	Low	8.65	<=13	PASS
Band2	15MHz	19125	QPSK	1	0	High	8.60	<=13	PASS
Band2	15MHz	19125	QPSK	6	0	High	9.11	<=13	PASS
Band2	15MHz	18675	16QAM	1	0	Low	10.20	<=13	PASS
Band2	15MHz	18675	16QAM	6	0	Low	10.63	<=13	PASS
Band2	15MHz	18900	16QAM	1	0	Low	7.58	<=13	PASS
Band2	15MHz	18900	16QAM	6	0	Low	8.39	<=13	PASS
Band2	15MHz	19125	16QAM	1	0	High	8.23	<=13	PASS
Band2	15MHz	19125	16QAM	6	0	High	7.82	<=13	PASS
Band2	20MHz	18700	QPSK	1	0	Low	9.30	<=13	PASS
Band2	20MHz	18700	QPSK	6	0	Low	8.95	<=13	PASS
Band2	20MHz	18900	QPSK	1	0	Low	9.38	<=13	PASS
Band2	20MHz	18900	QPSK	6	0	Low	9.37	<=13	PASS
Band2	20MHz	19100	QPSK	1	0	High	8.15	<=13	PASS
Band2	20MHz	19100	QPSK	6	0	High	11.78	<=13	PASS
Band2	20MHz	18700	16QAM	1	0	Low	8.96	<=13	PASS
Band2	20MHz	18700	16QAM	6	0	Low	9.28	<=13	PASS
Band2	20MHz	18900	16QAM	1	0	Low	8.66	<=13	PASS
Band2	20MHz	18900	16QAM	6	0	Low	9.31	<=13	PASS
Band2	20MHz	19100	16QAM	1	0	High	8.83	<=13	PASS
Band2	20MHz	19100	16QAM	6	0	High	7.50	<=13	PASS





Test Graphs

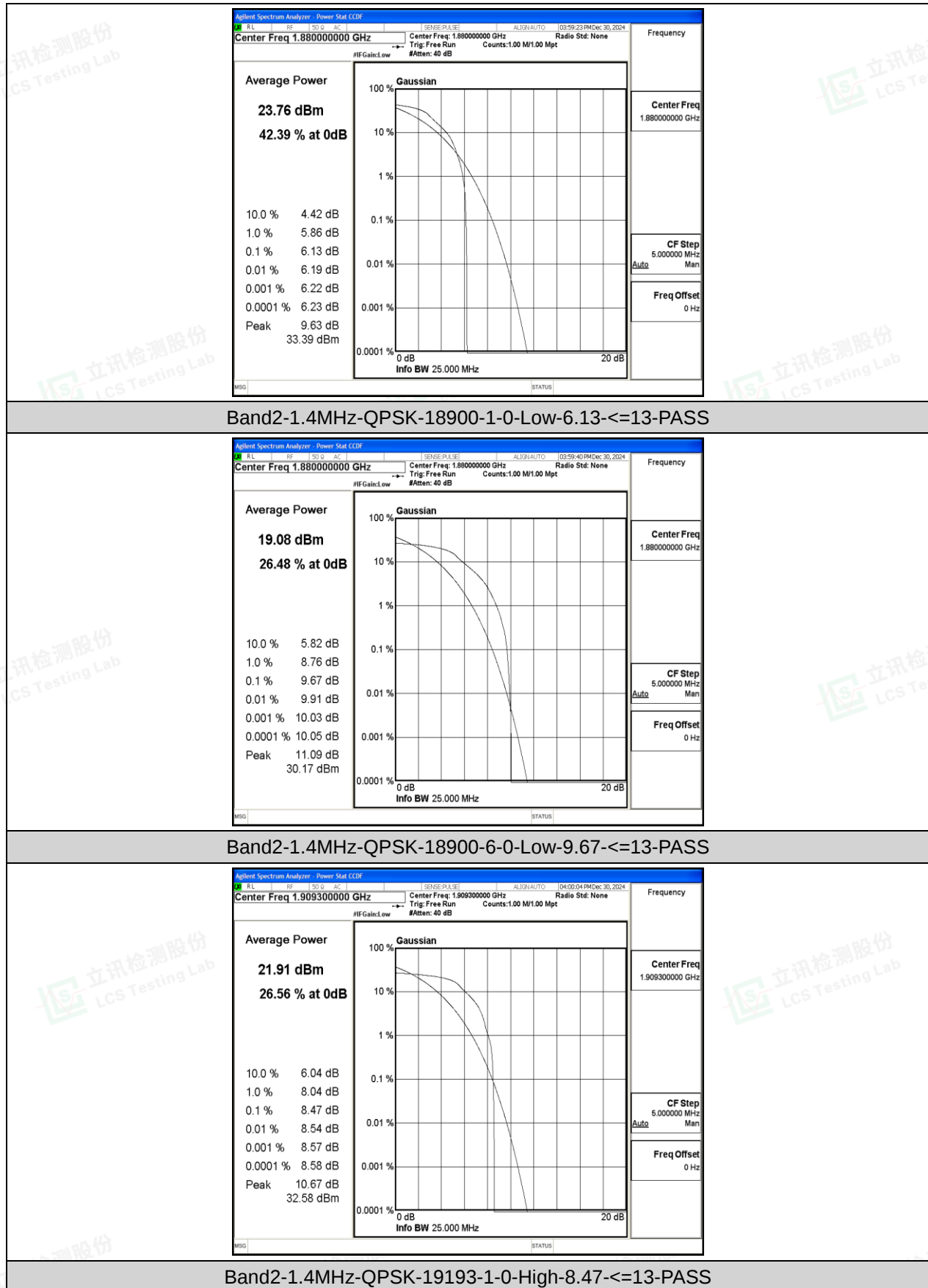


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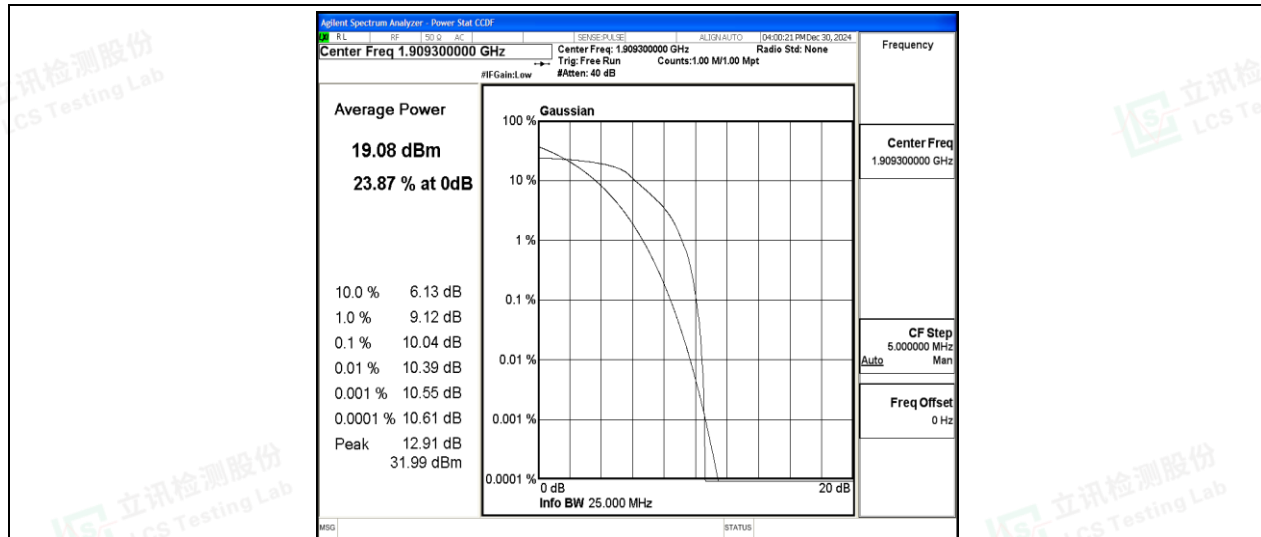


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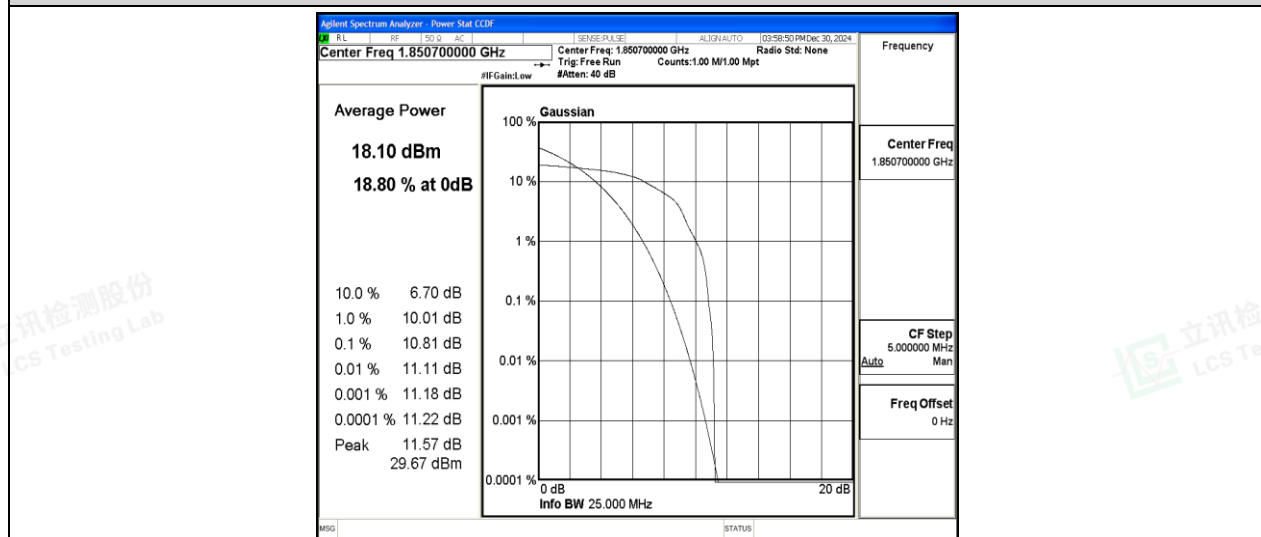
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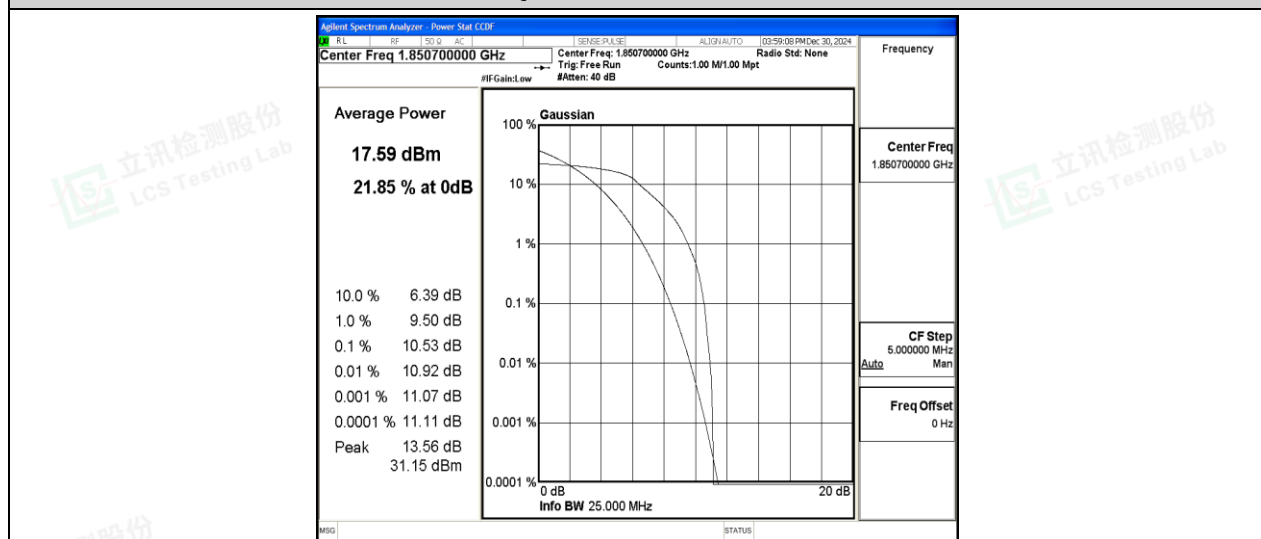
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Band2-1.4MHz-QPSK-19193-6-0-High-10.04-<=13-PASS



Band2-1.4MHz-16QAM-18607-1-0-Low-10.81-<=13-PASS



Band2-1.4MHz-16QAM-18607-6-0-Low-10.53-<=13-PASS

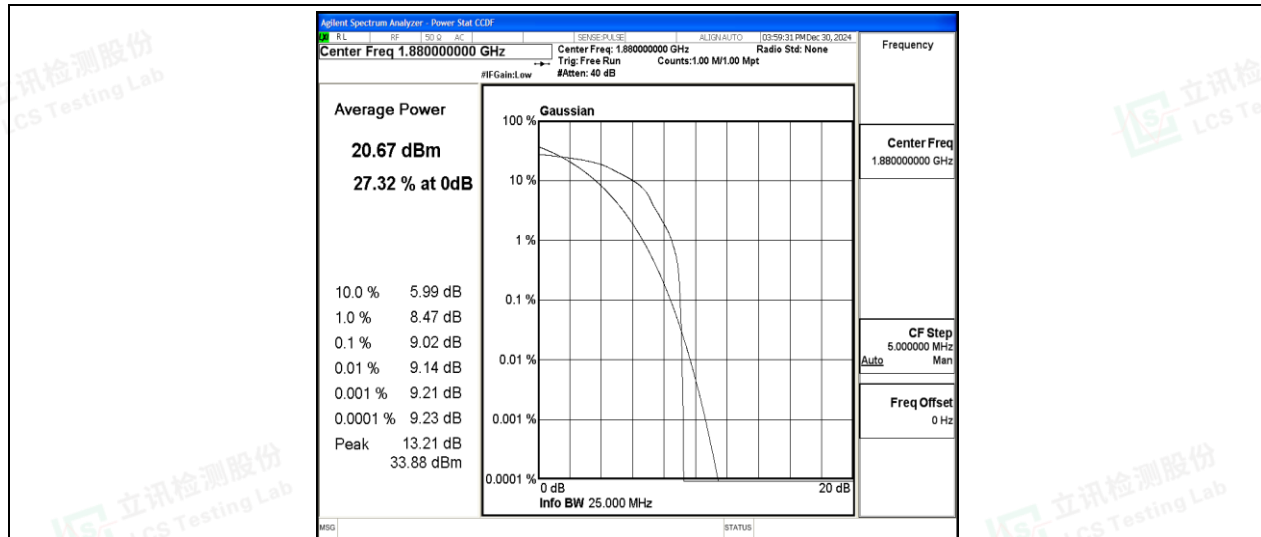


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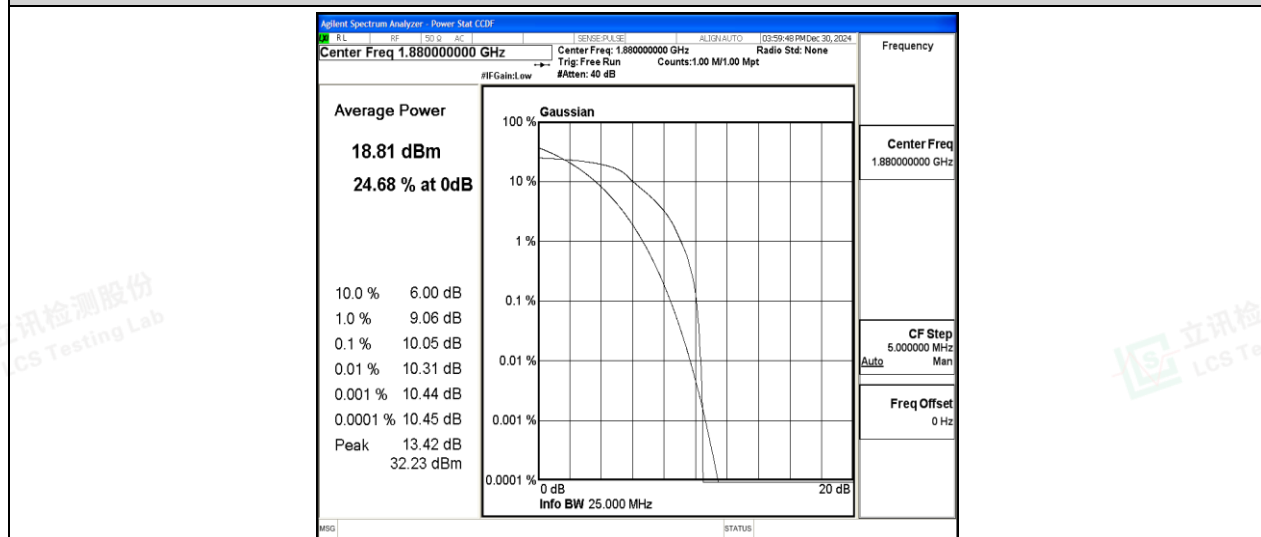
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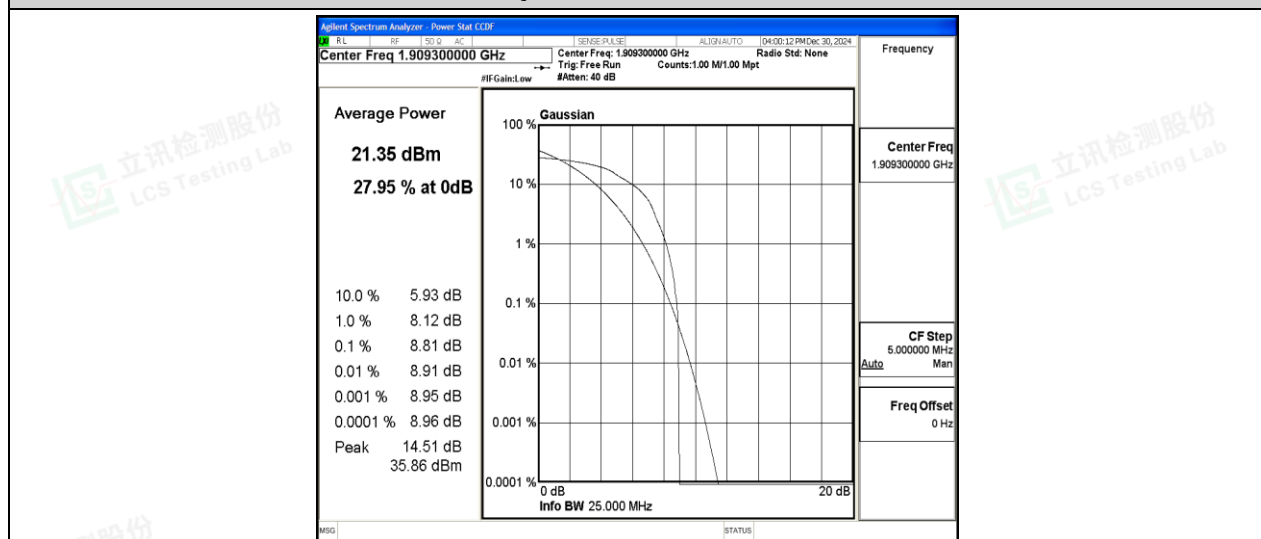
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Band2-1.4MHz-16QAM-18900-6-0-Low-10.05-<=13-PASS



Band2-1.4MHz-16QAM-19193-1-0-High-8.81-<=13-PASS

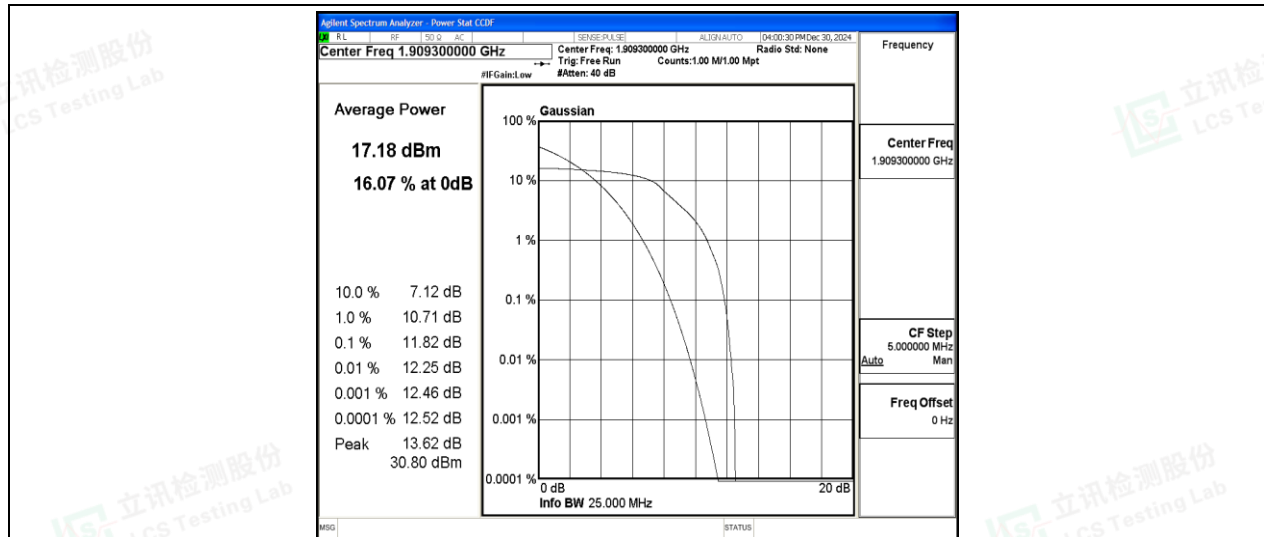


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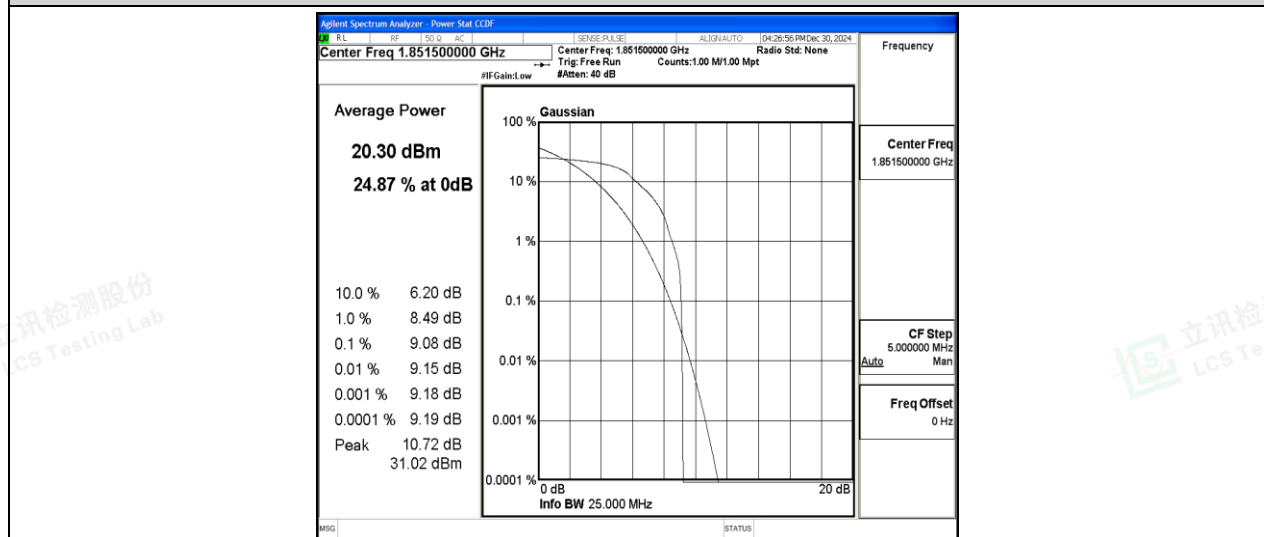
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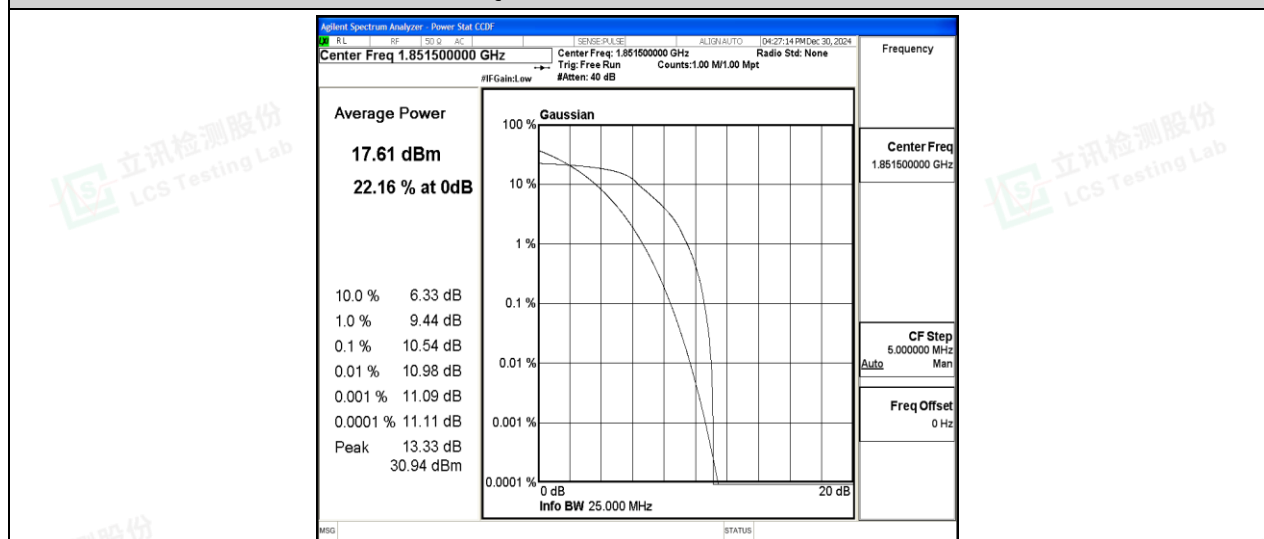
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Band2-1.4MHz-16QAM-19193-6-0-High-11.82-<=13-PASS



Band2-3MHz-QPSK-18615-1-0-Low-9.08-<=13-PASS



Band2-3MHz-QPSK-18615-6-0-Low-10.54-<=13-PASS



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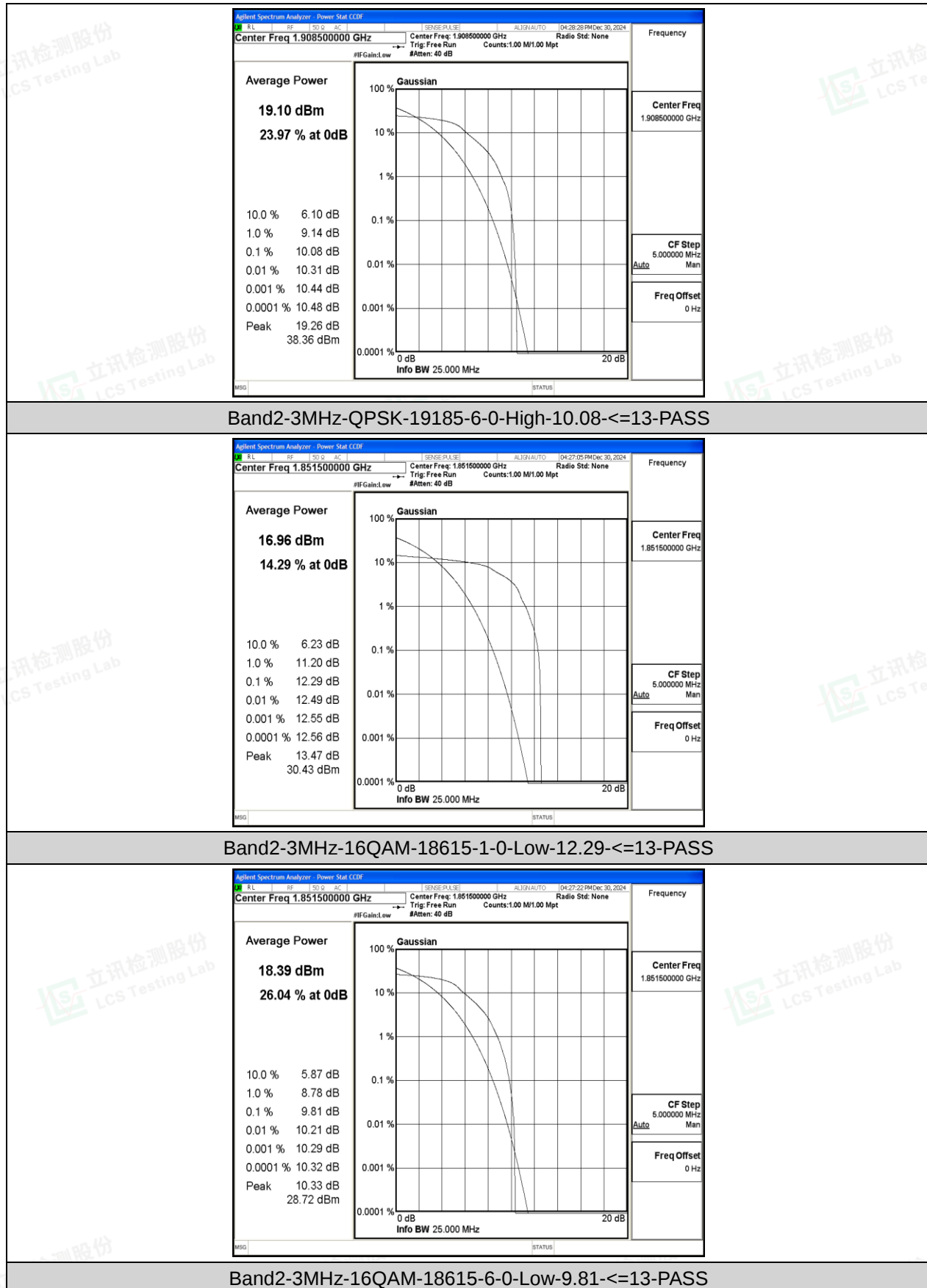


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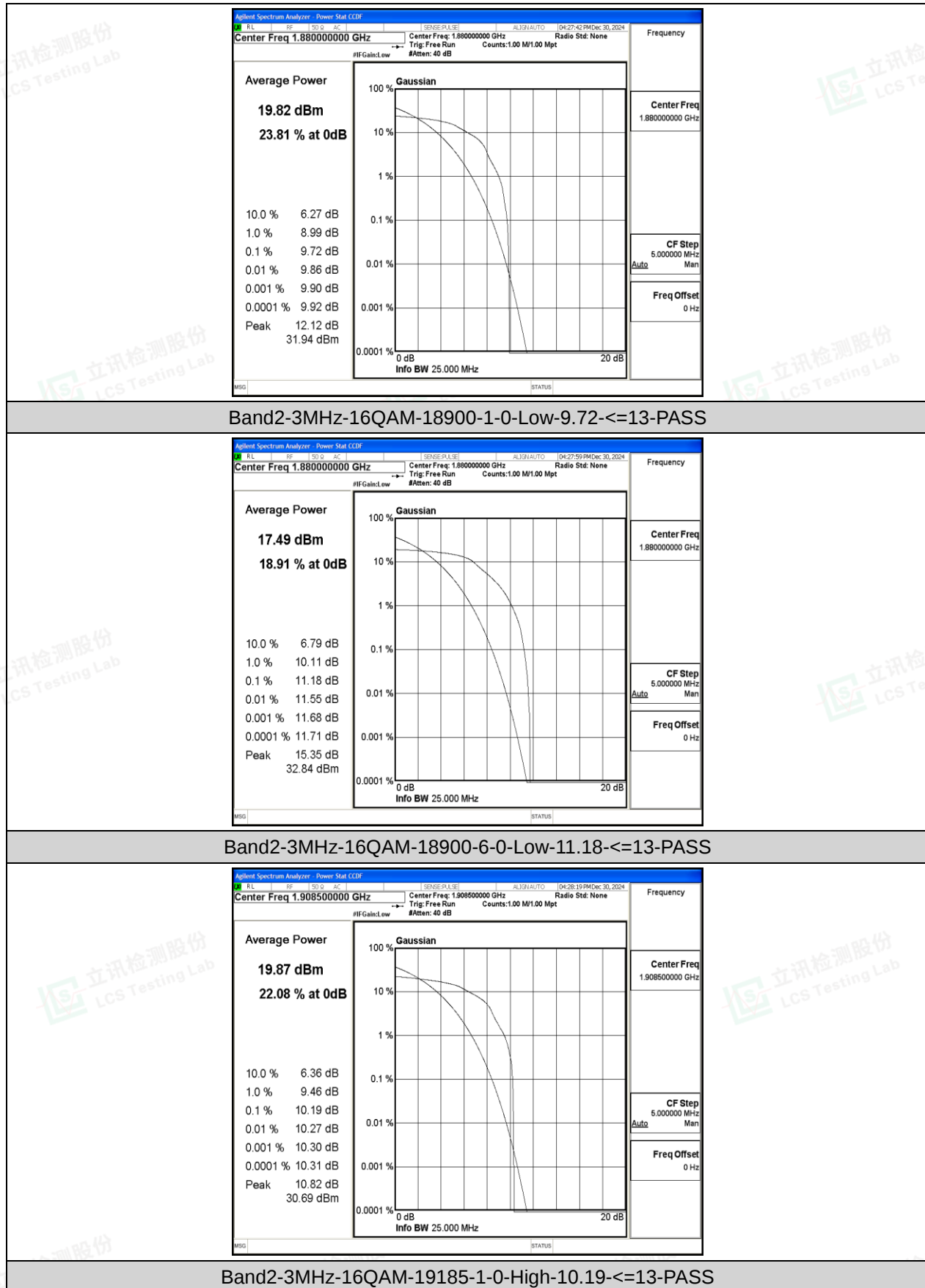


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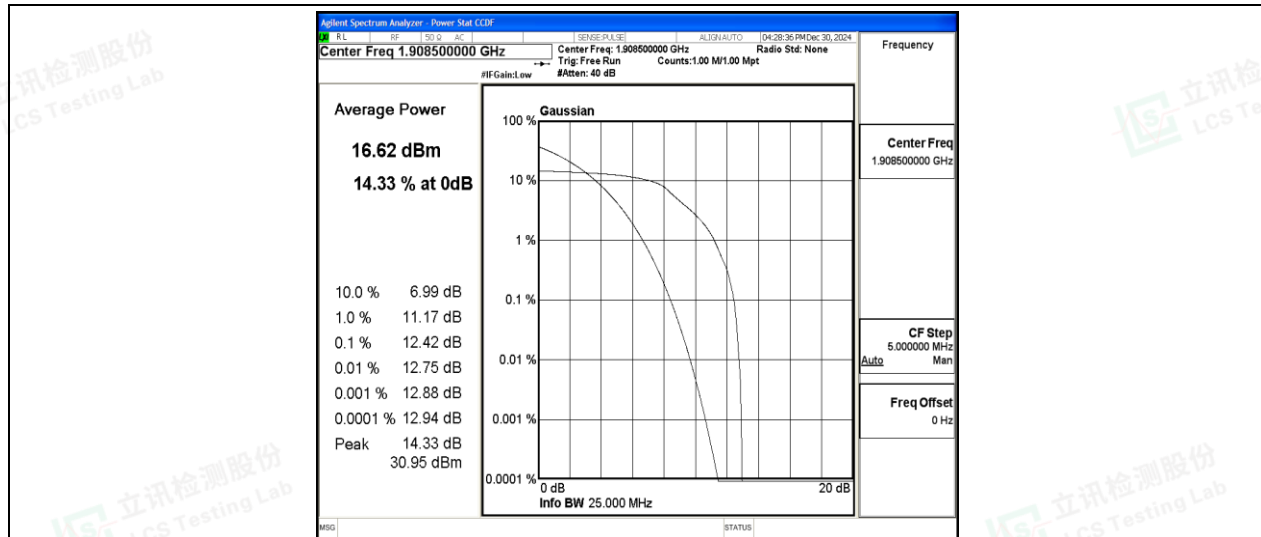


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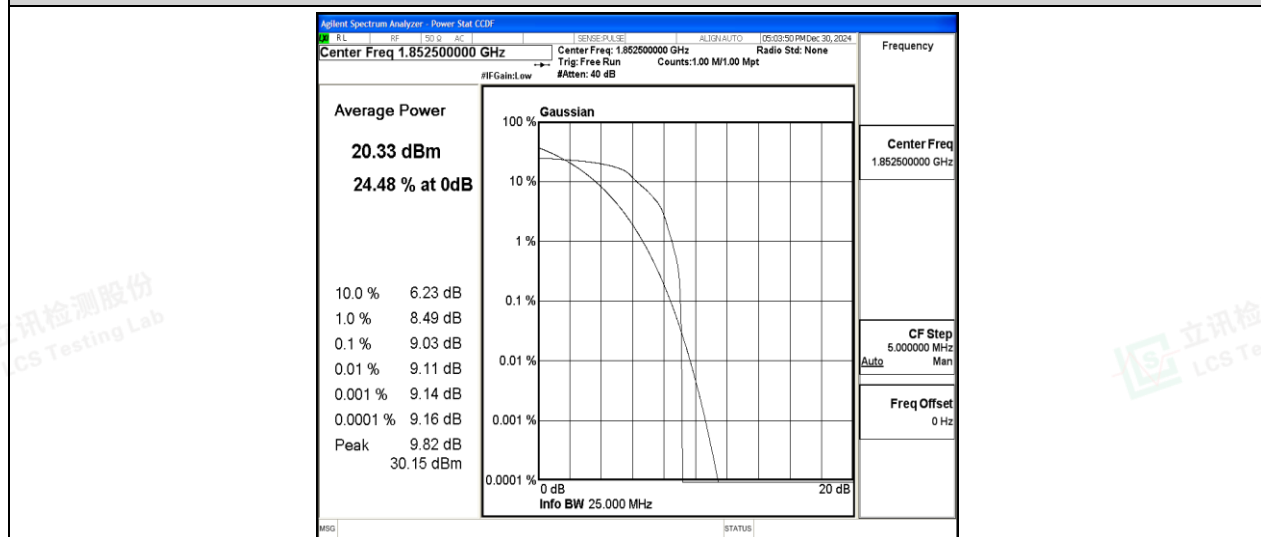
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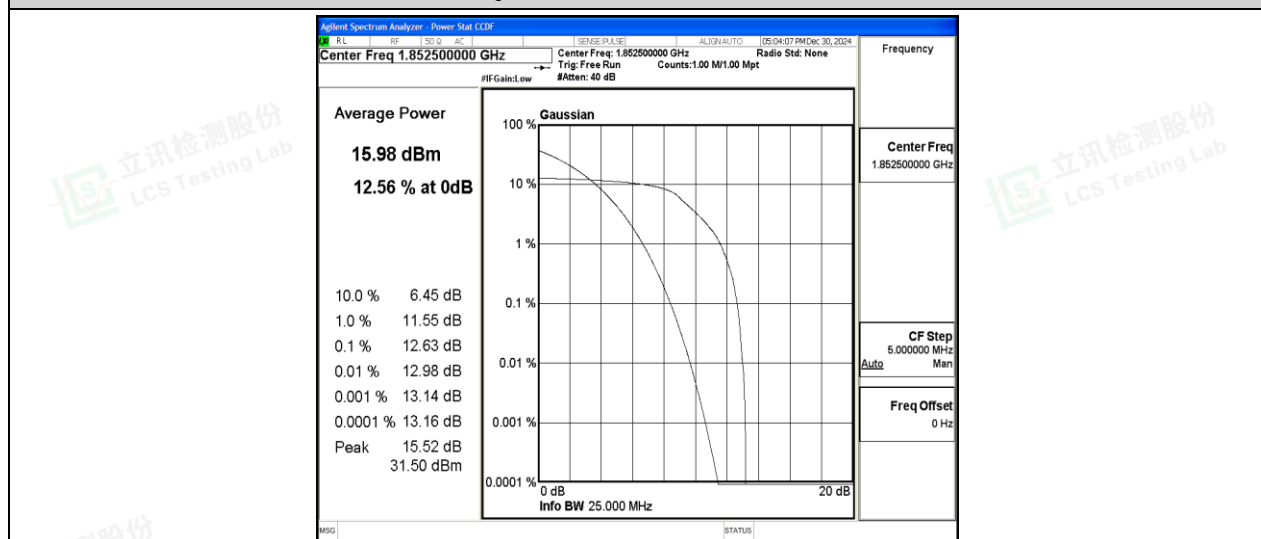
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Band2-3MHz-16QAM-19185-6-0-High-12.42-<=13-PASS



Band2-5MHz-QPSK-18625-1-0-Low-9.03-<=13-PASS



Band2-5MHz-QPSK-18625-6-0-Low-12.63-<=13-PASS

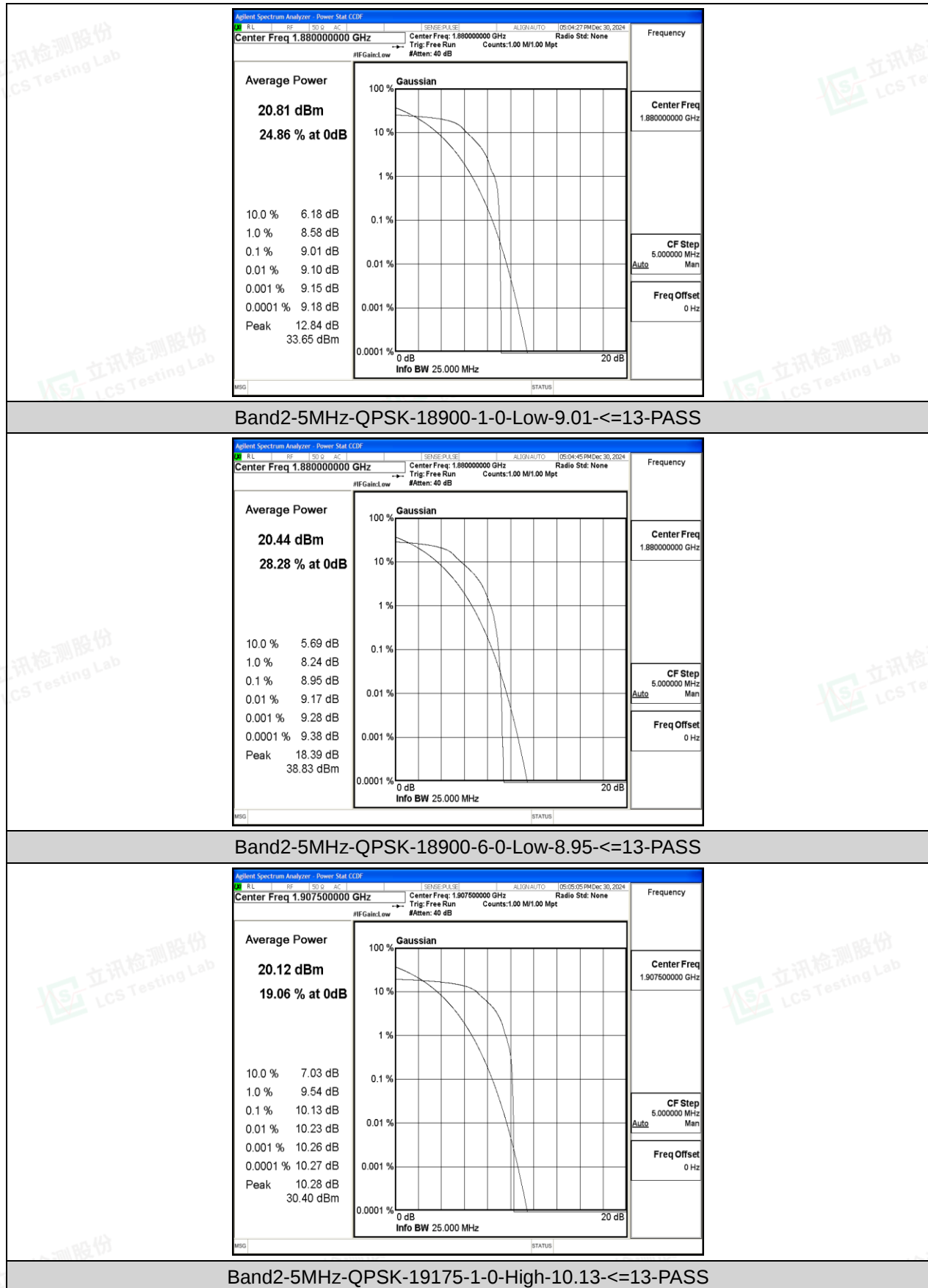


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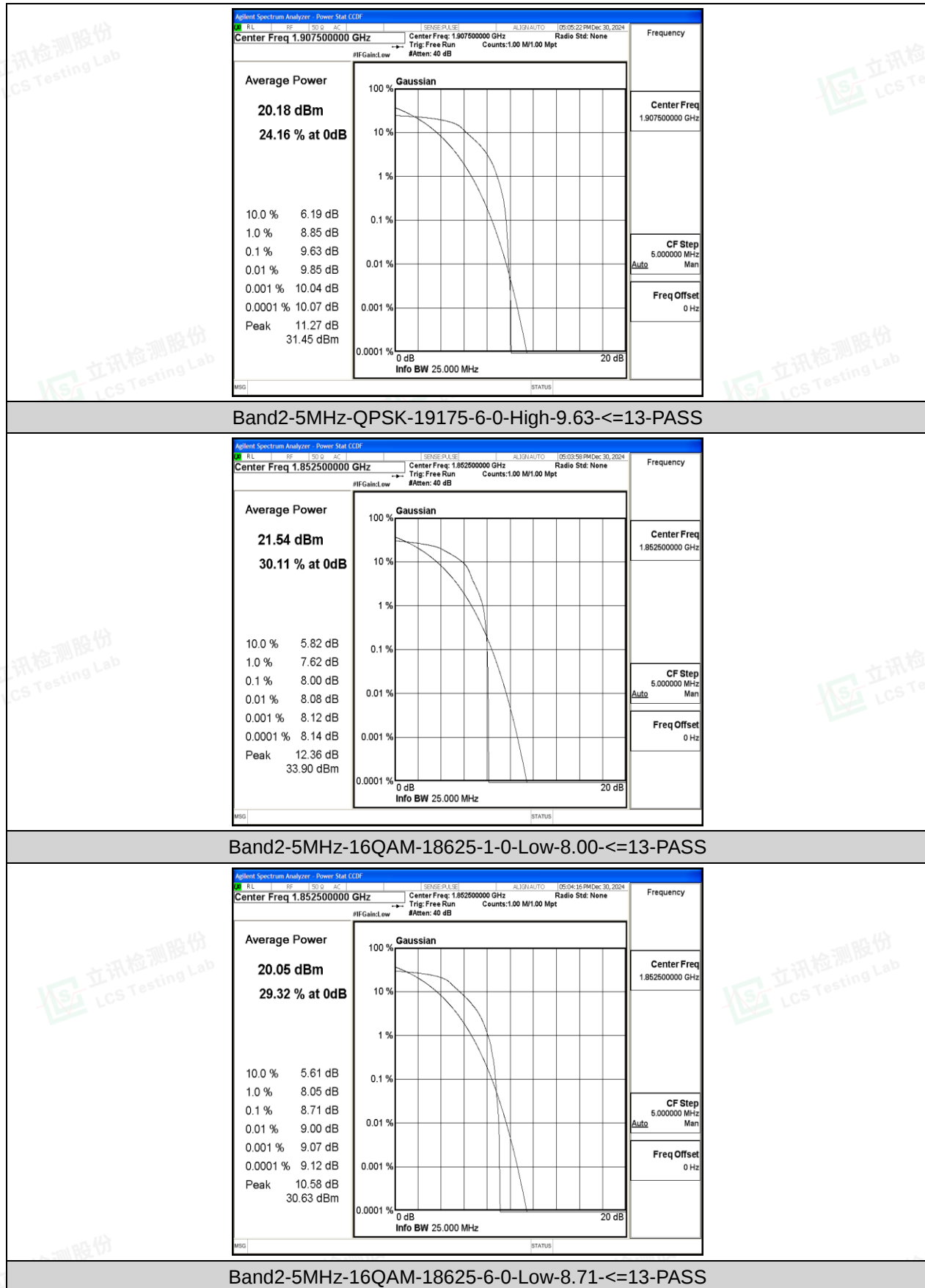


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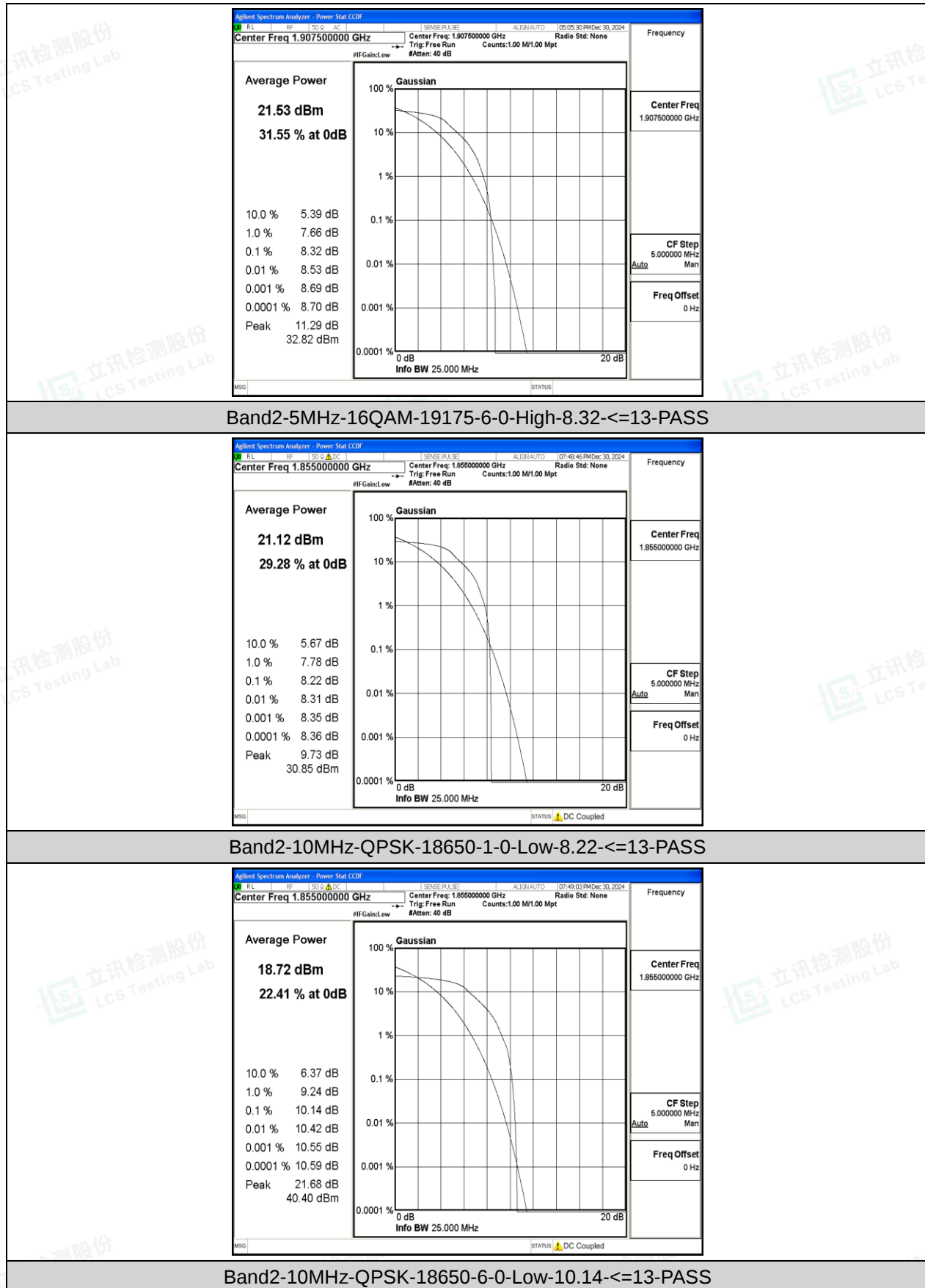


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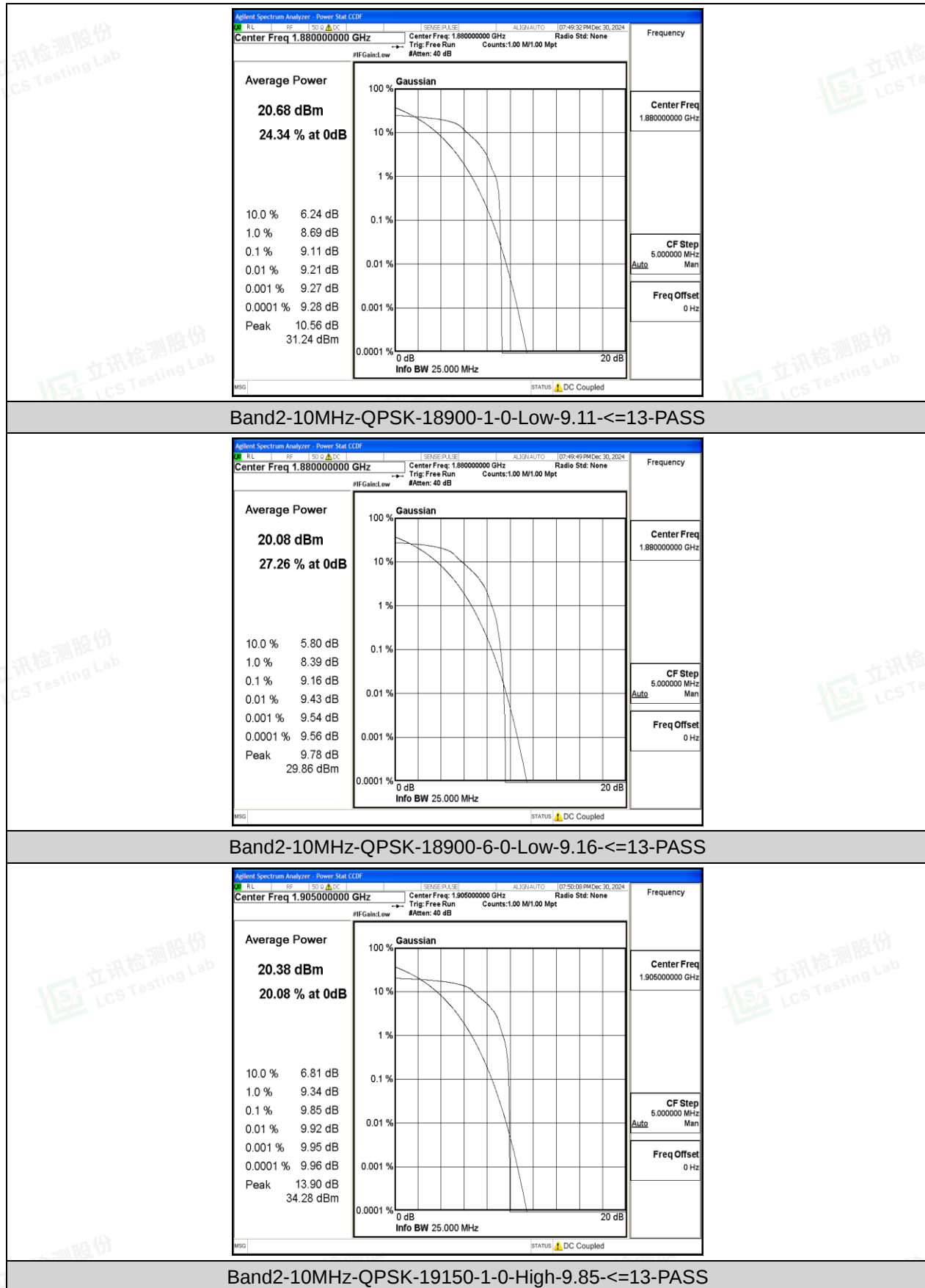


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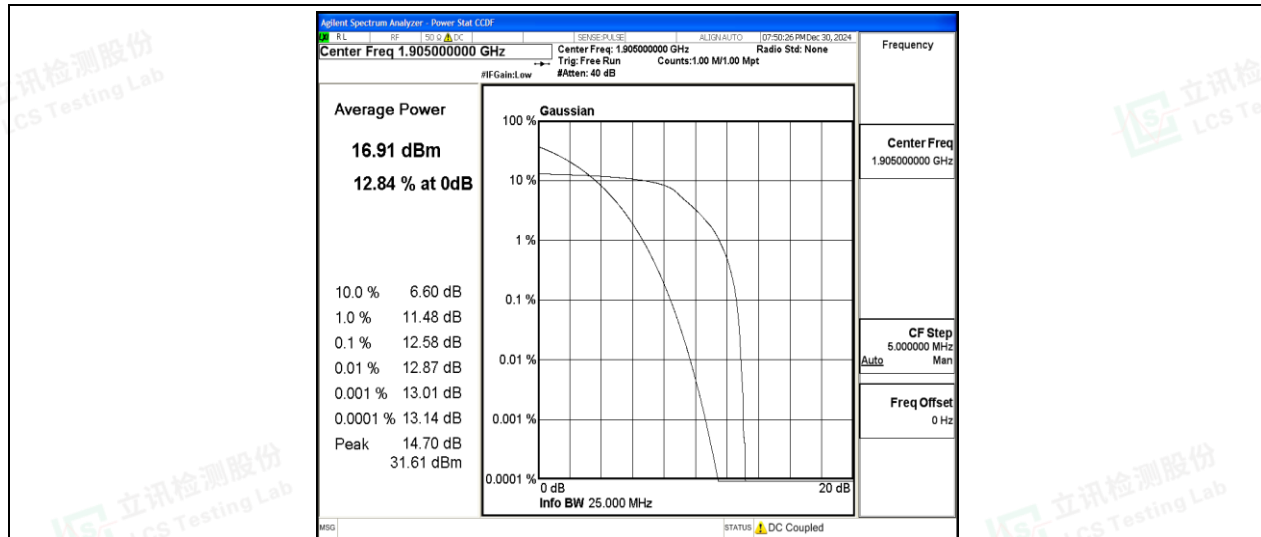


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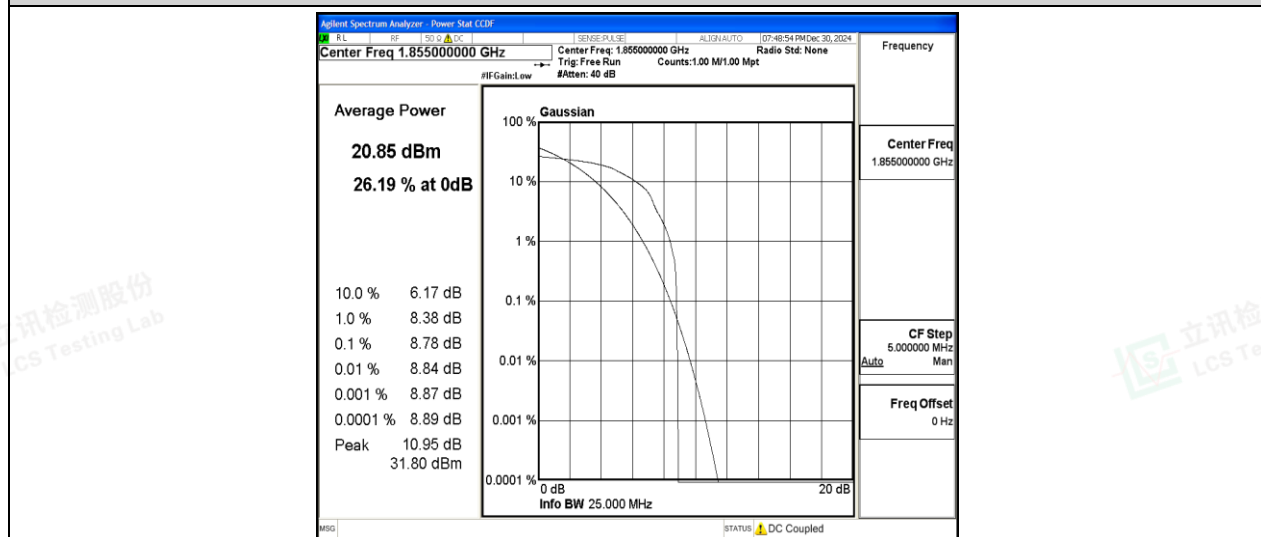
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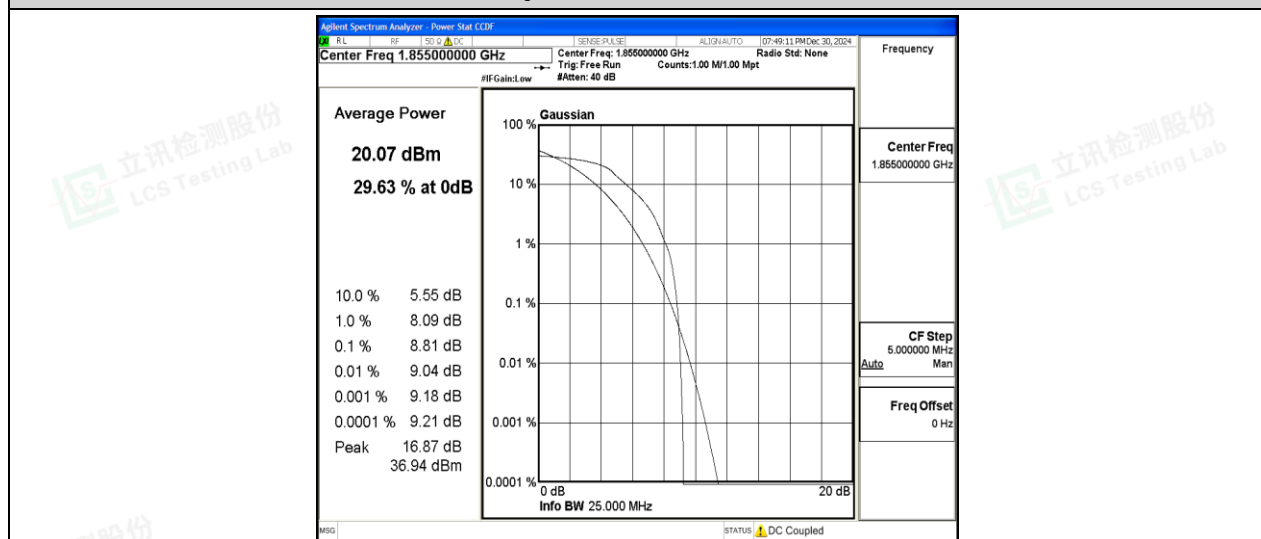
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Band2-10MHz-QPSK-19150-6-0-High-12.58-13-PASS



Band2-10MHz-16QAM-18650-1-0-Low-8.78-13-PASS



Band2-10MHz-16QAM-18650-6-0-Low-8.81-13-PASS

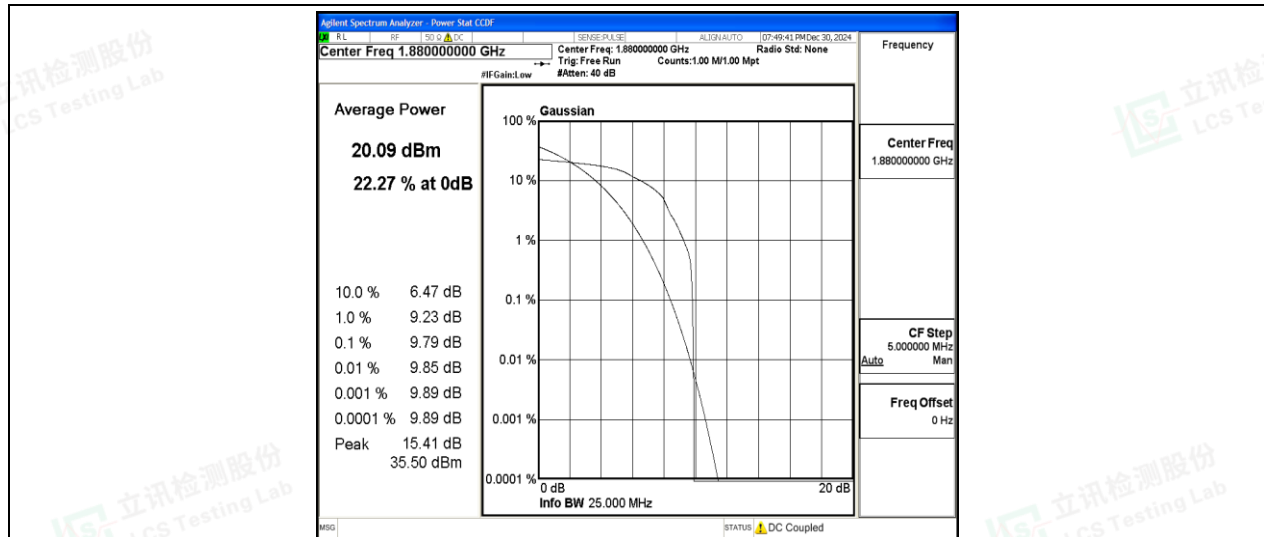


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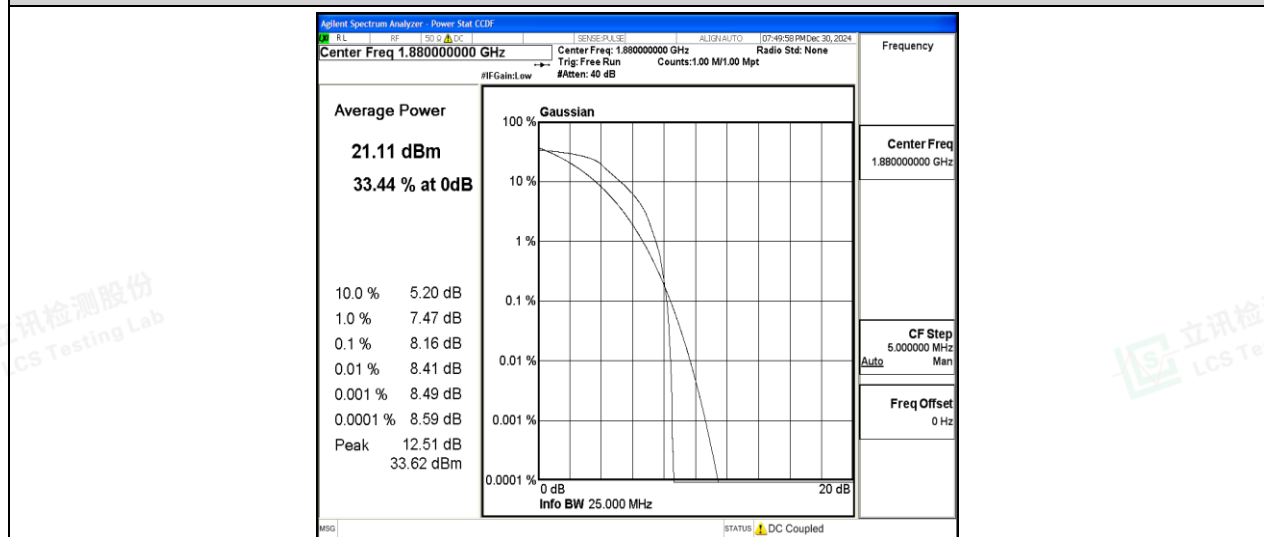
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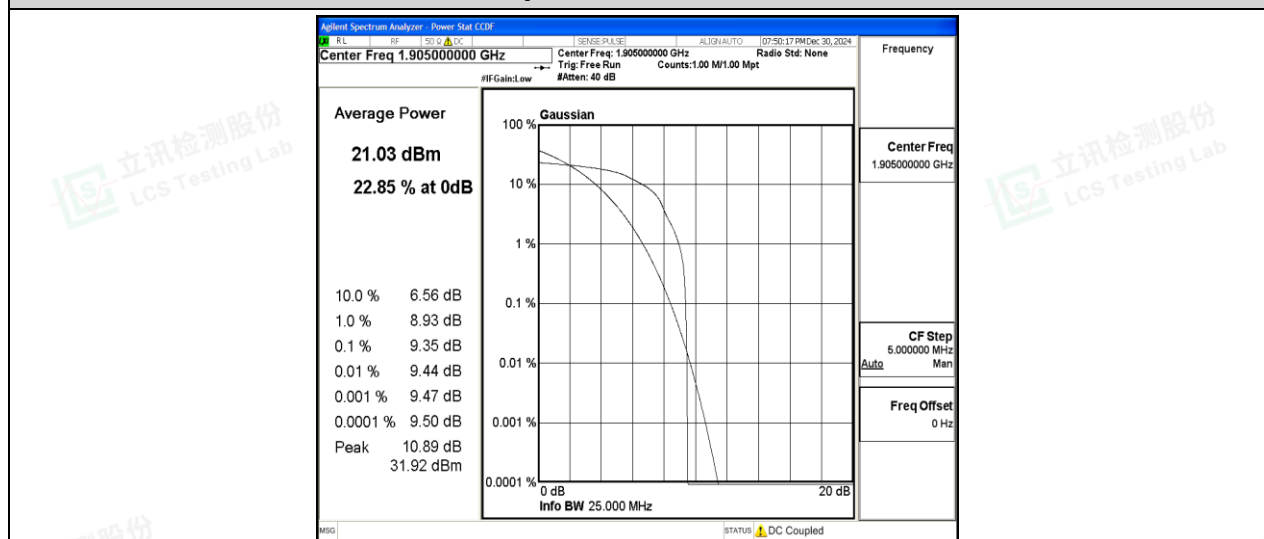
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Band2-10MHz-16QAM-18900-1-0-Low-9.79-<=13-PASS



Band2-10MHz-16QAM-18900-6-0-Low-8.16-<=13-PASS



Band2-10MHz-16QAM-19150-1-0-High-9.35-<=13-PASS

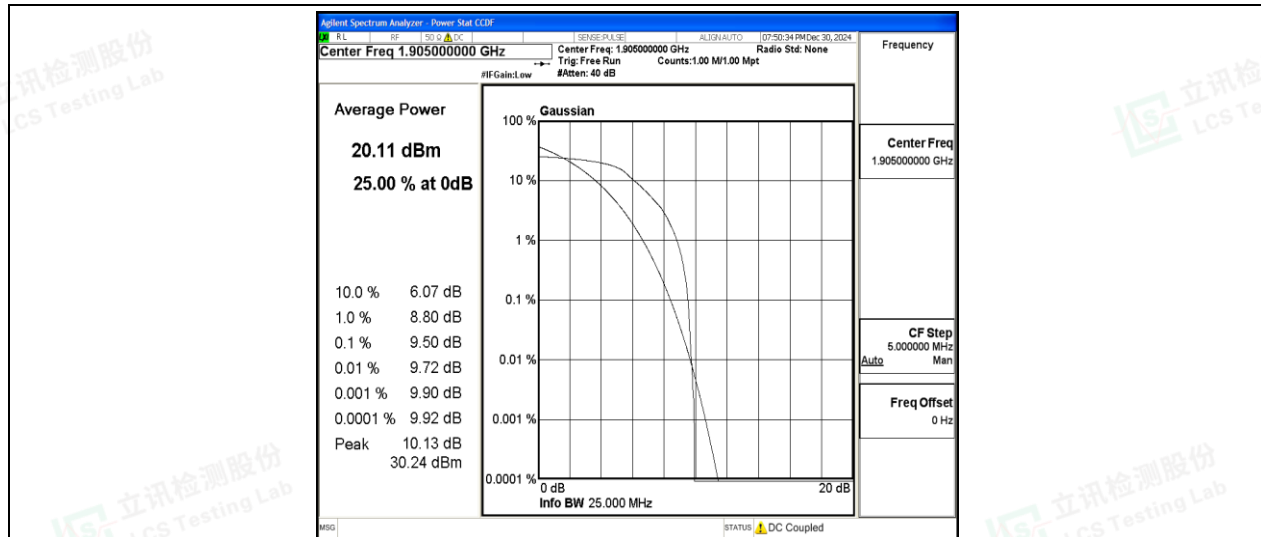


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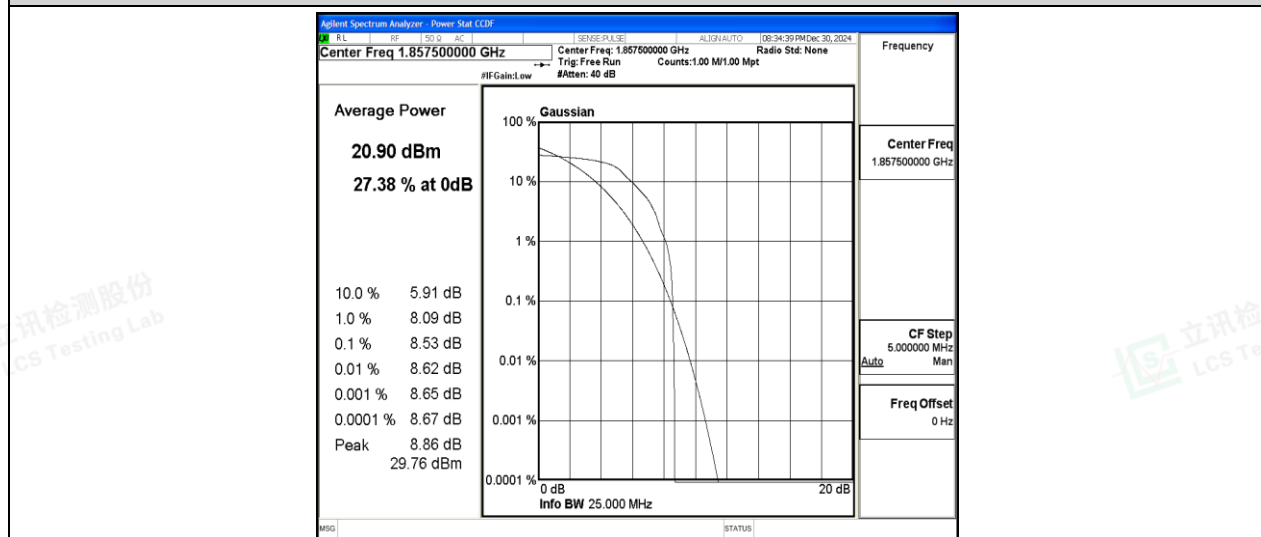
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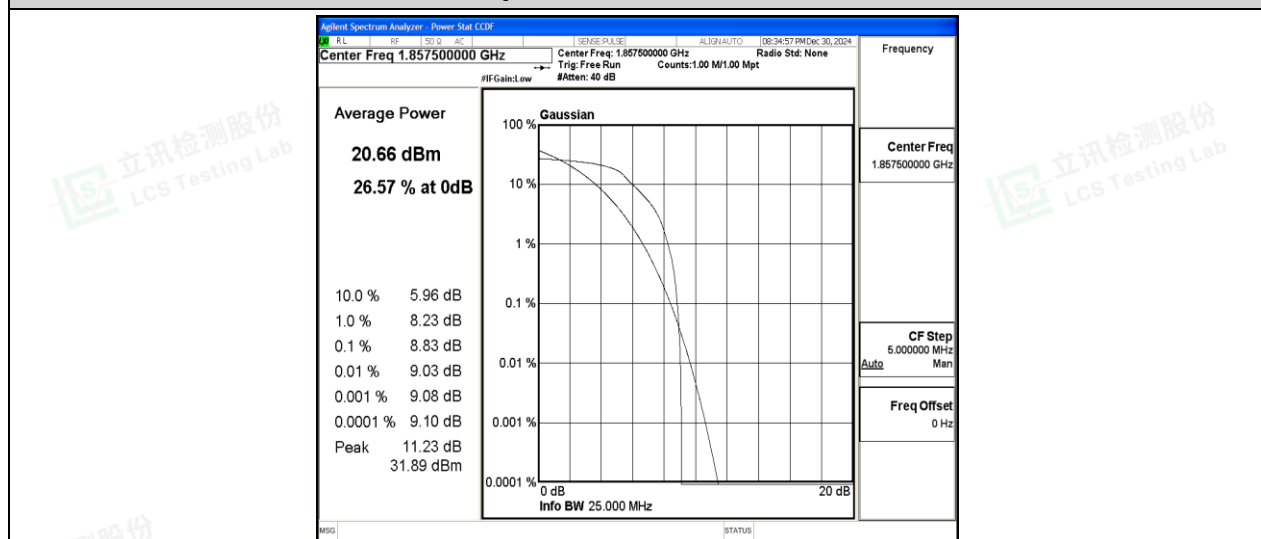
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Band2-10MHz-16QAM-19150-6-0-High-9.50-<=13-PASS



Band2-15MHz-QPSK-18675-1-0-Low-8.53-<=13-PASS



Band2-15MHz-QPSK-18675-6-0-Low-8.83-<=13-PASS

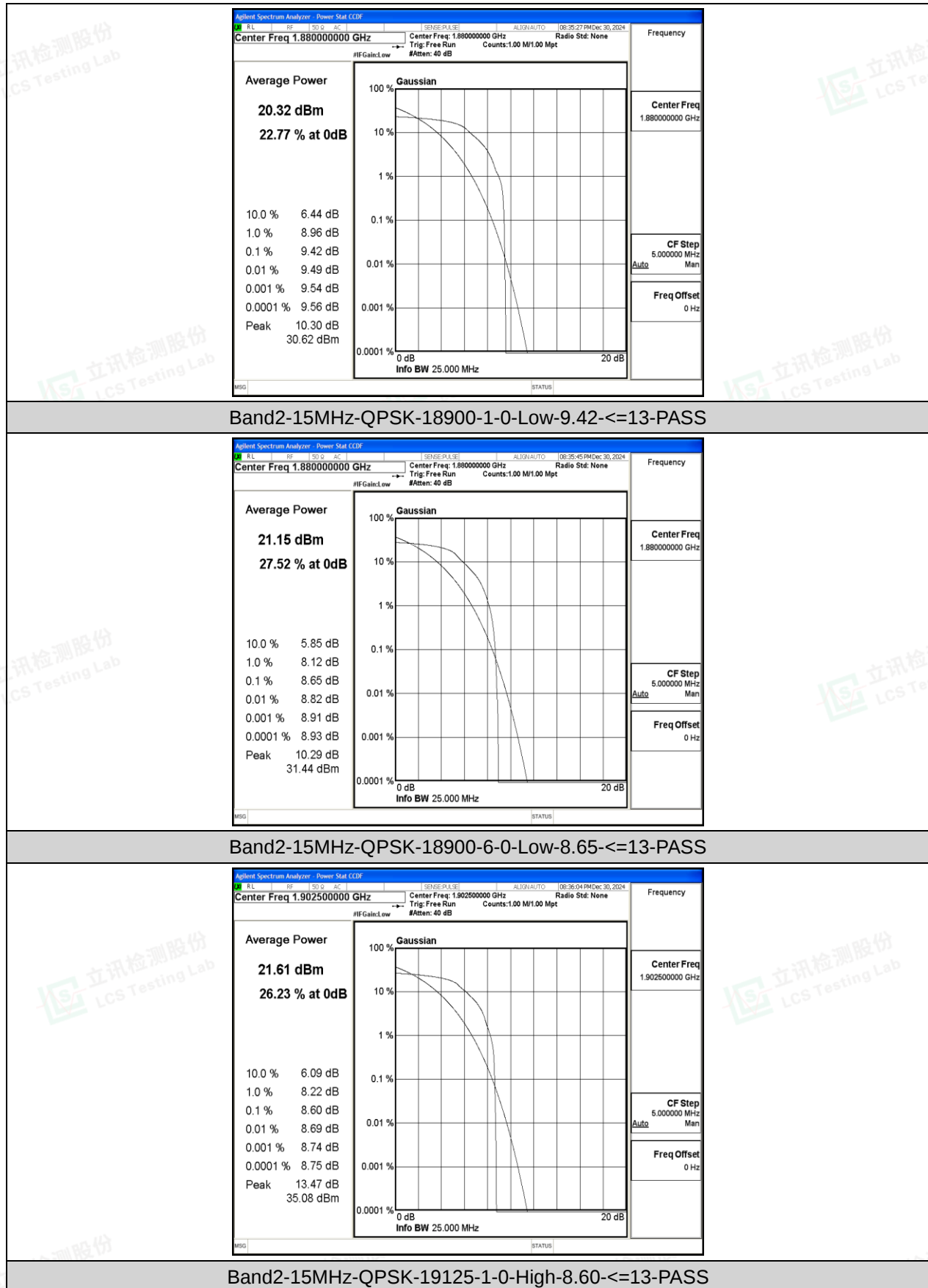


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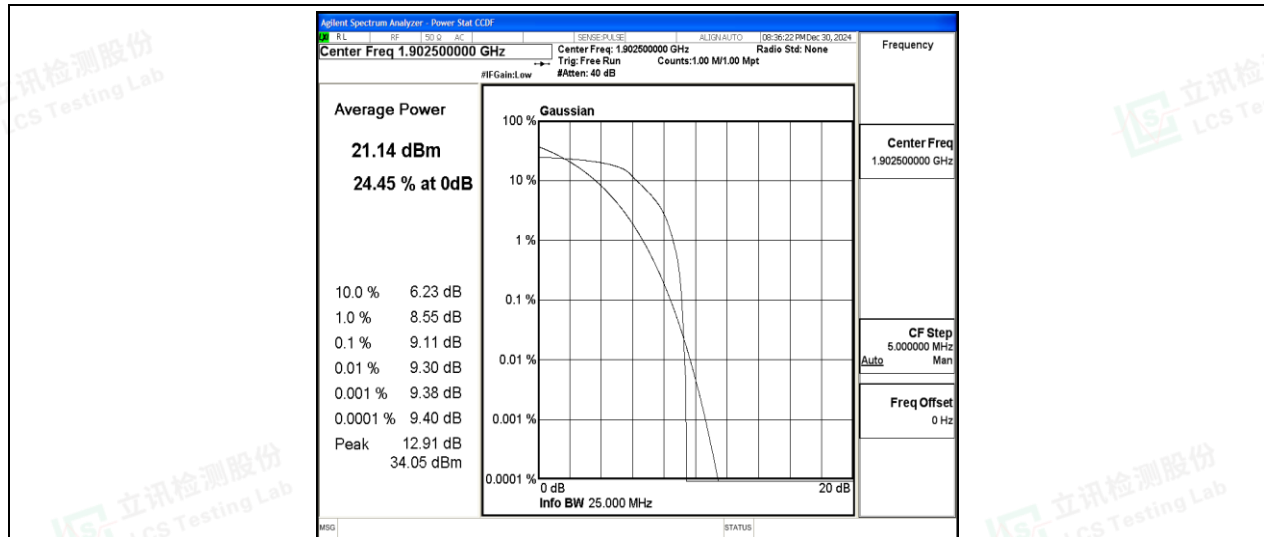


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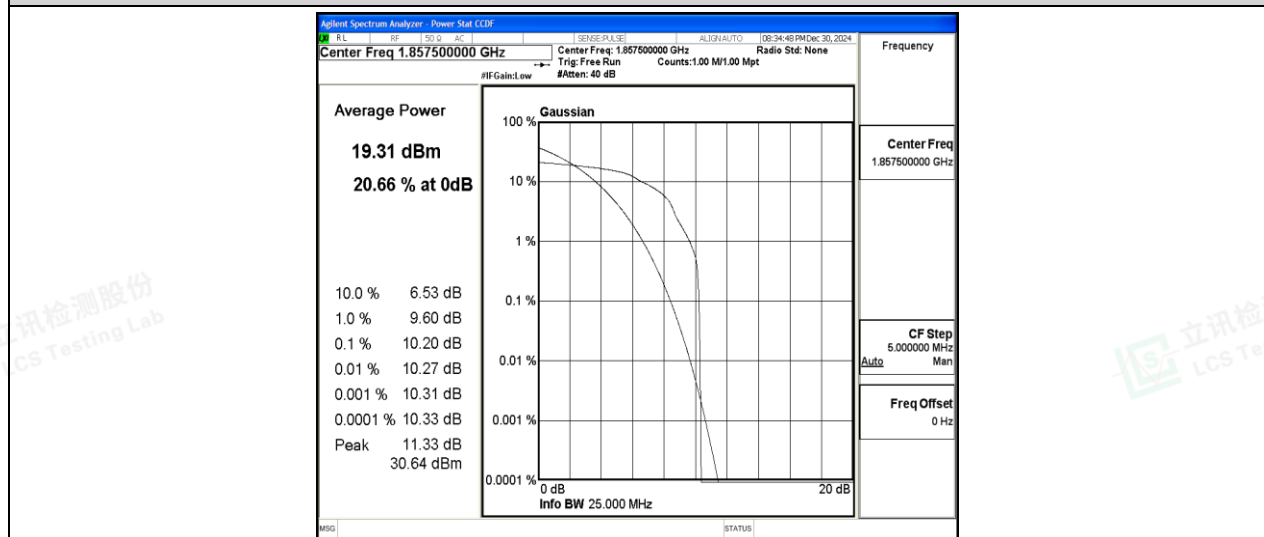
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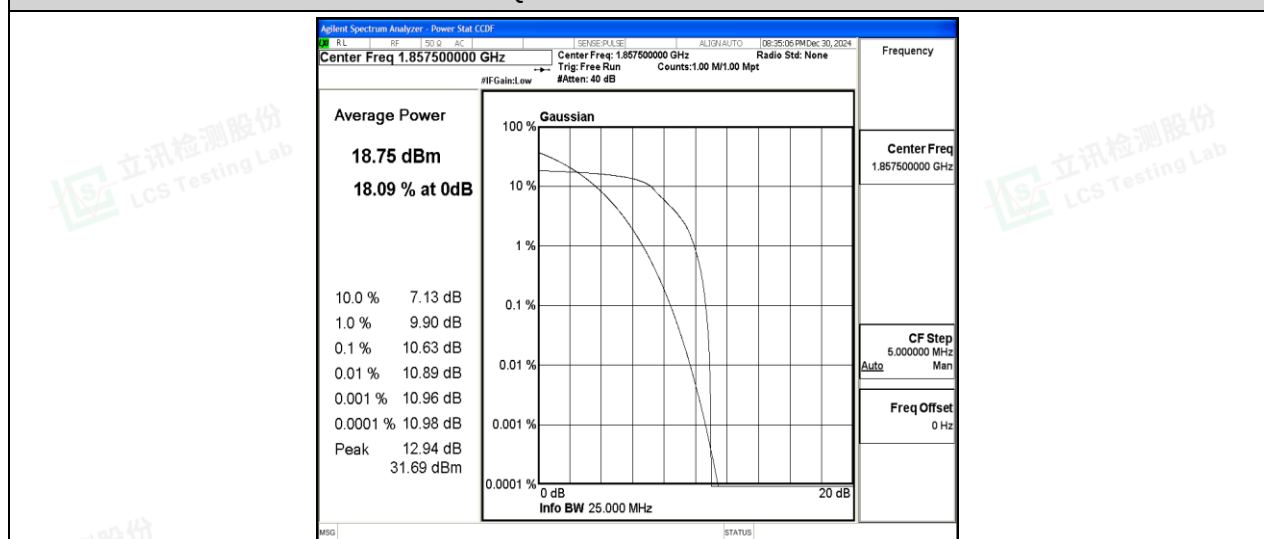
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Band2-15MHz-QPSK-19125-6-0-High-9.11-<=13-PASS



Band2-15MHz-16QAM-18675-1-0-Low-10.20-<=13-PASS



Band2-15MHz-16QAM-18675-6-0-Low-10.63-<=13-PASS

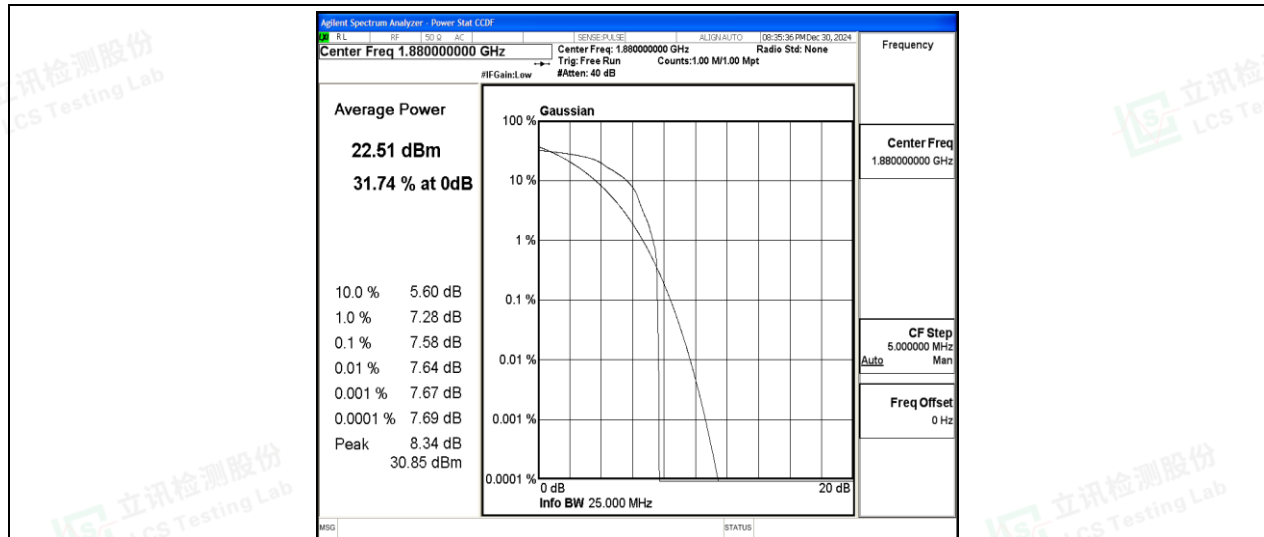


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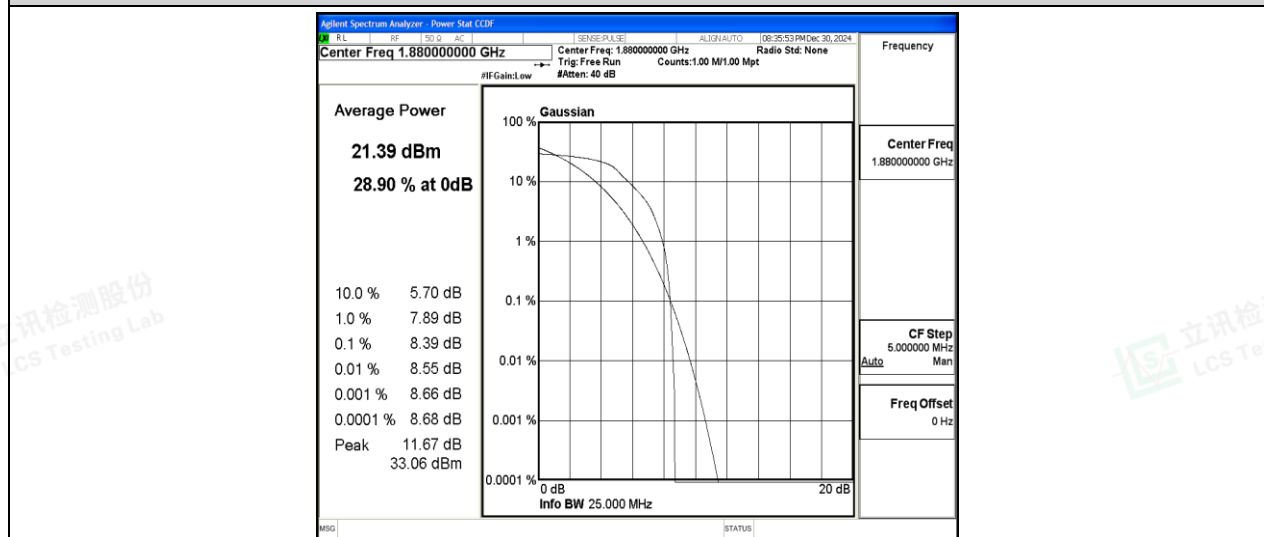
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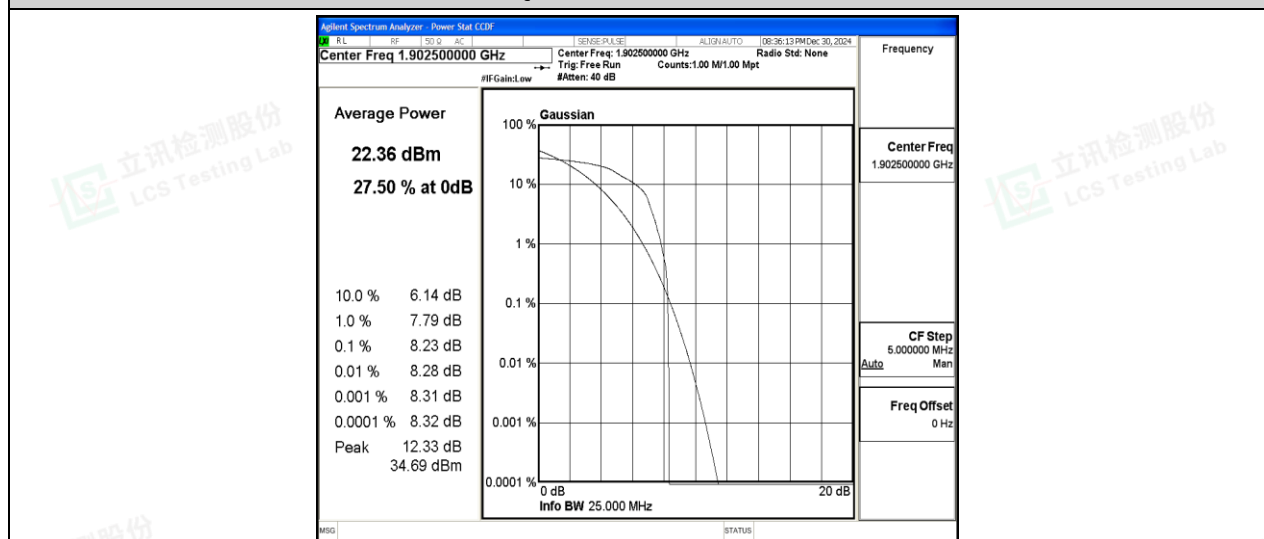
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Band2-15MHz-16QAM-18900-1-0-Low-7.58-<=13-PASS



Band2-15MHz-16QAM-18900-6-0-Low-8.39-<=13-PASS



Band2-15MHz-16QAM-19125-1-0-High-8.23-<=13-PASS

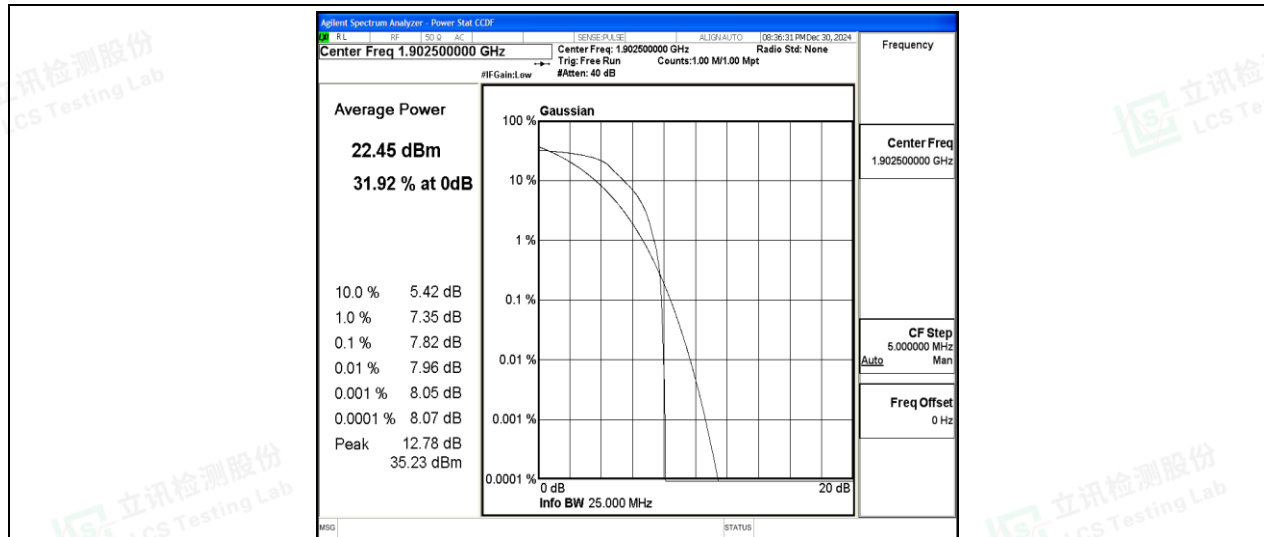


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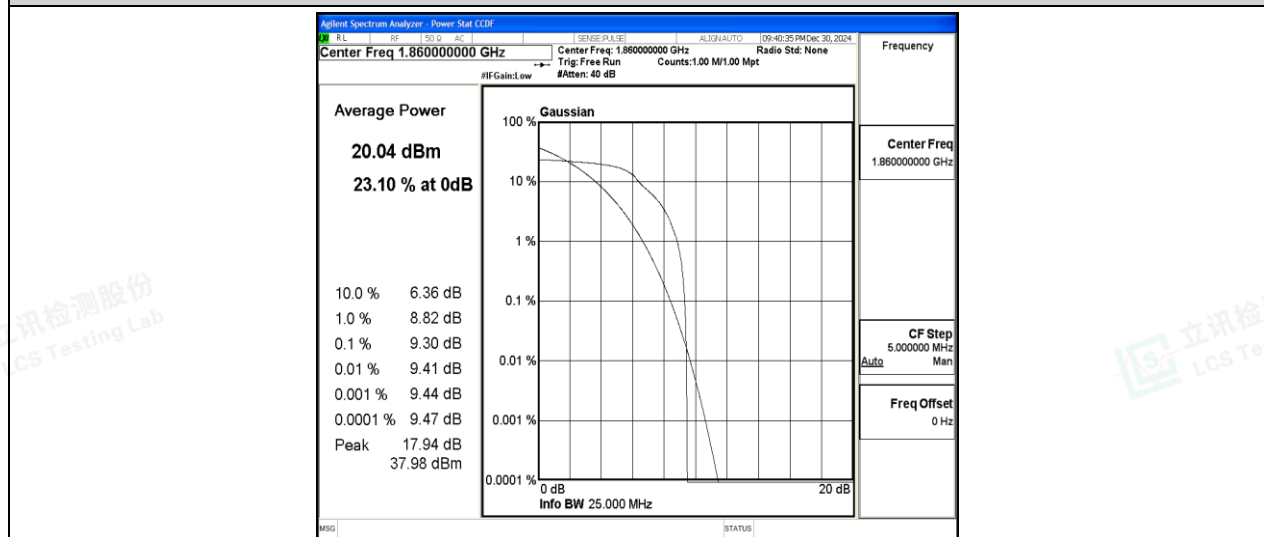
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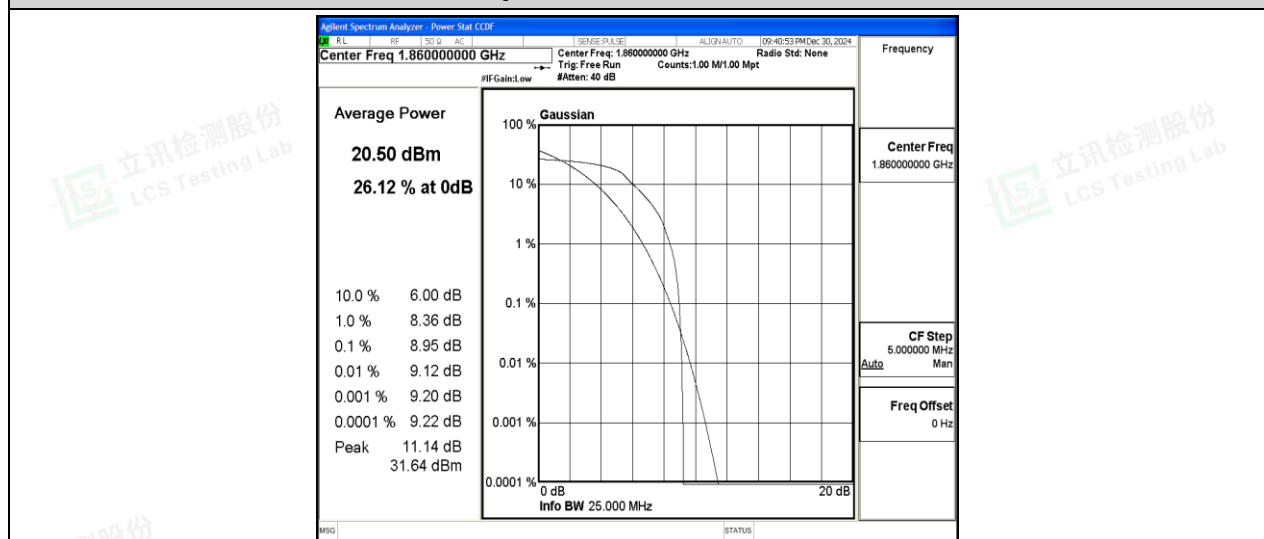
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Band2-15MHz-16QAM-19125-6-0-High-7.82-<=13-PASS



Band2-20MHz-QPSK-18700-1-0-Low-9.30-<=13-PASS



Band2-20MHz-QPSK-18700-6-0-Low-8.95-<=13-PASS

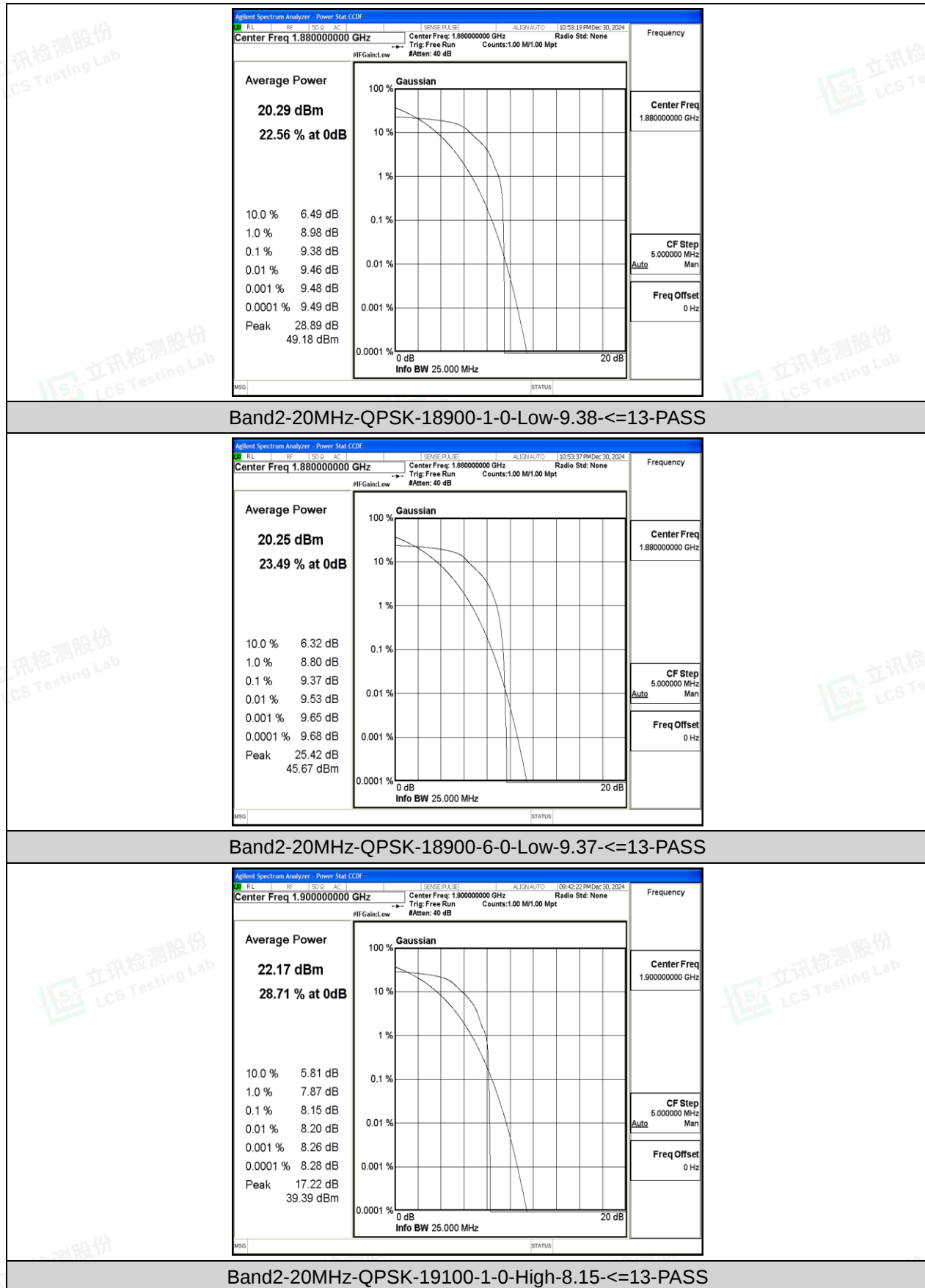


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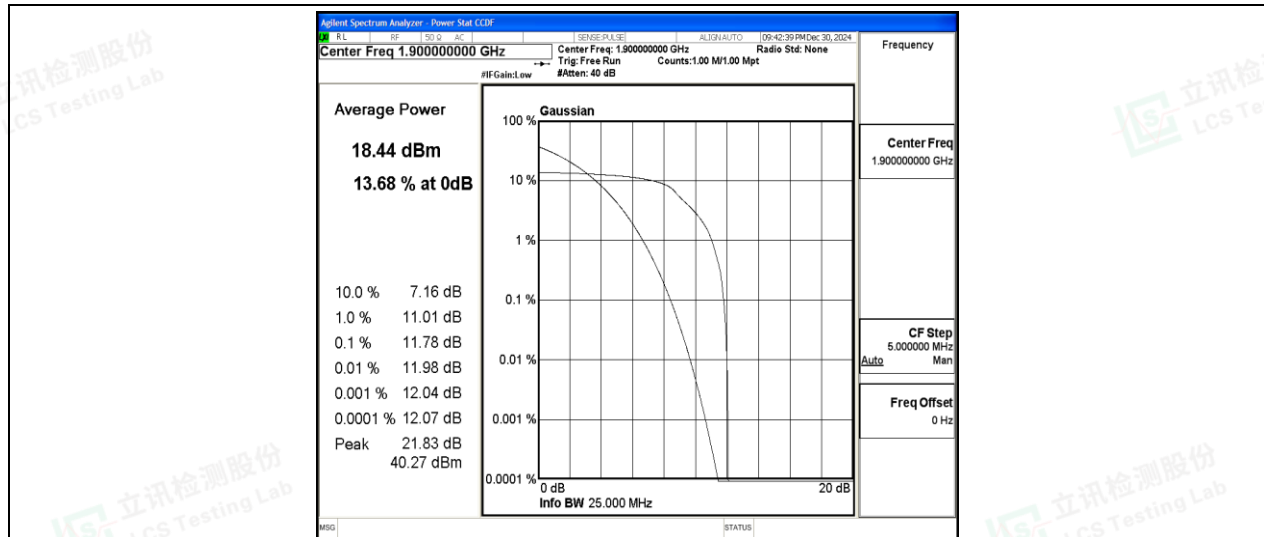


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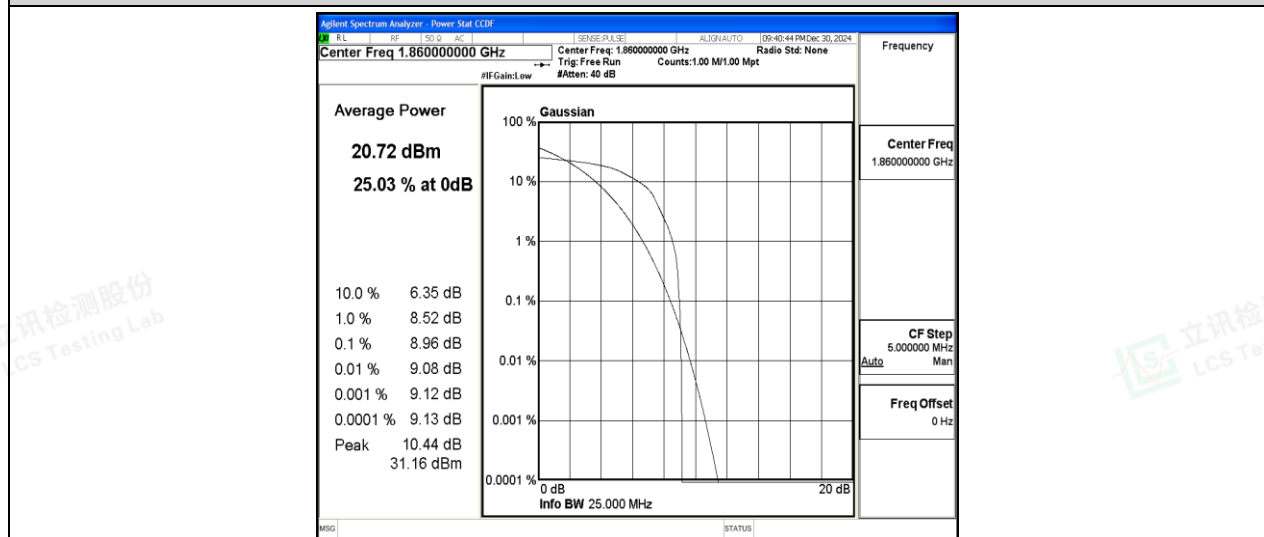
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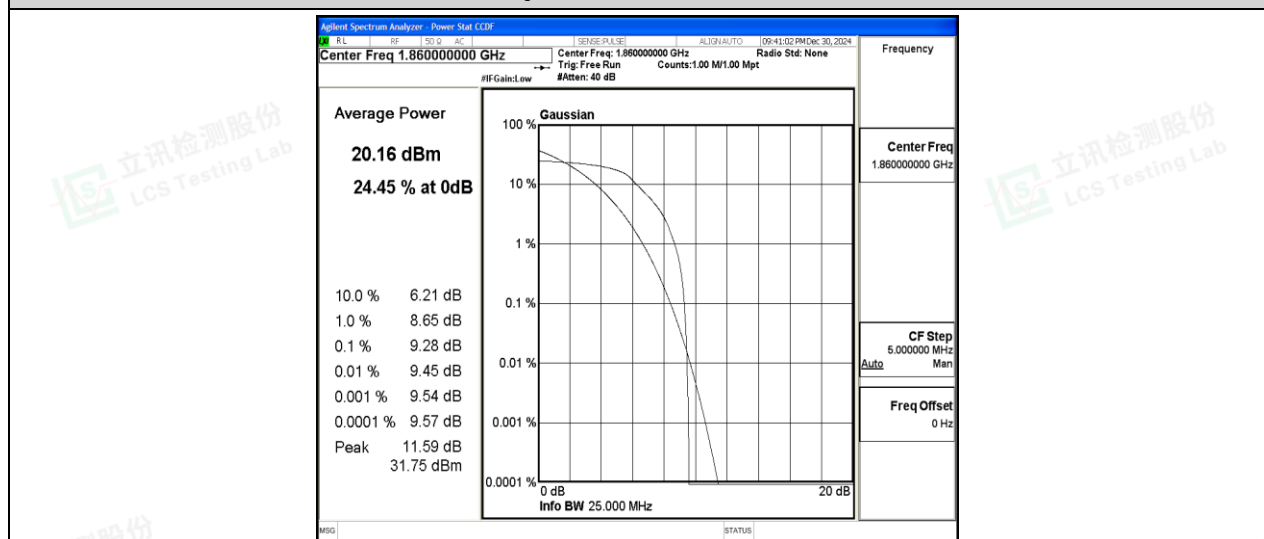
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Band2-20MHz-QPSK-19100-6-0-High-11.78-<=13-PASS



Band2-20MHz-16QAM-18700-1-0-Low-8.96-<=13-PASS



Band2-20MHz-16QAM-18700-6-0-Low-9.28-<=13-PASS

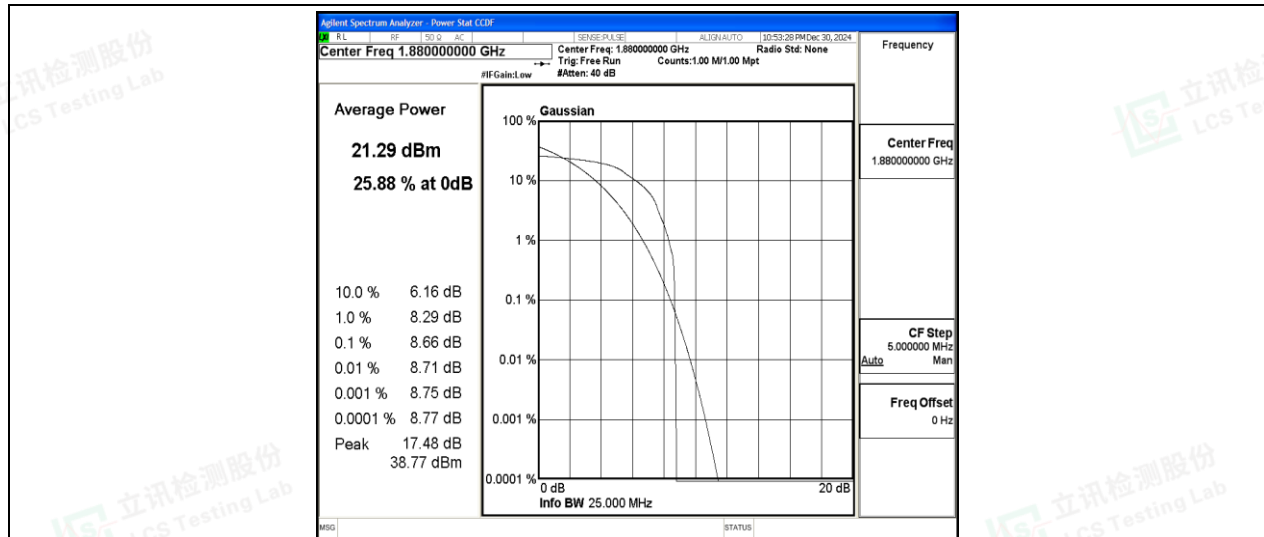


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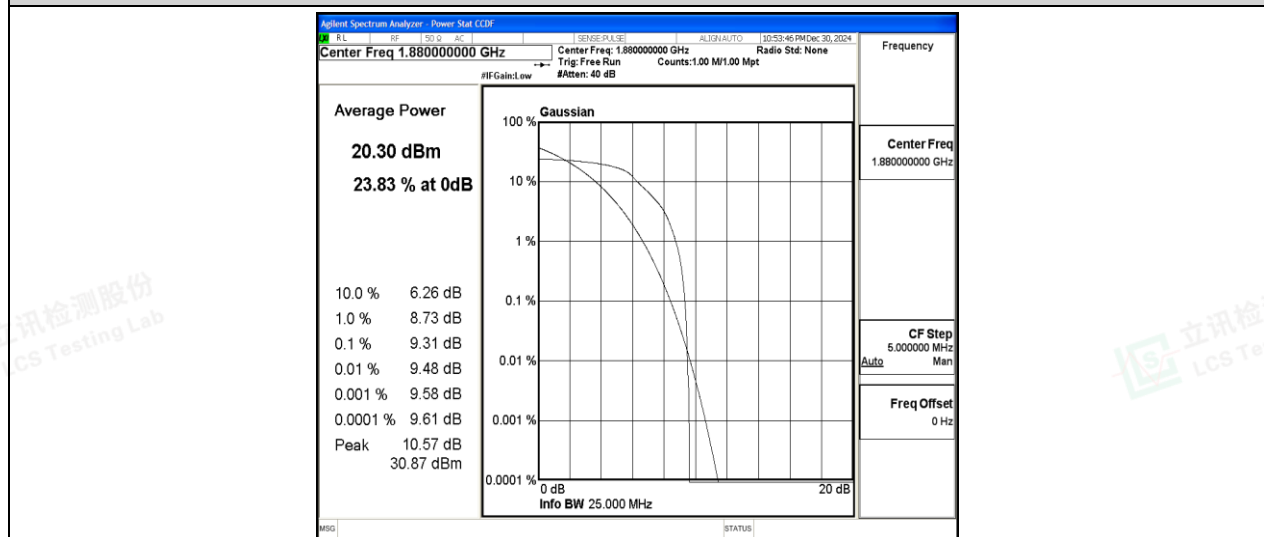
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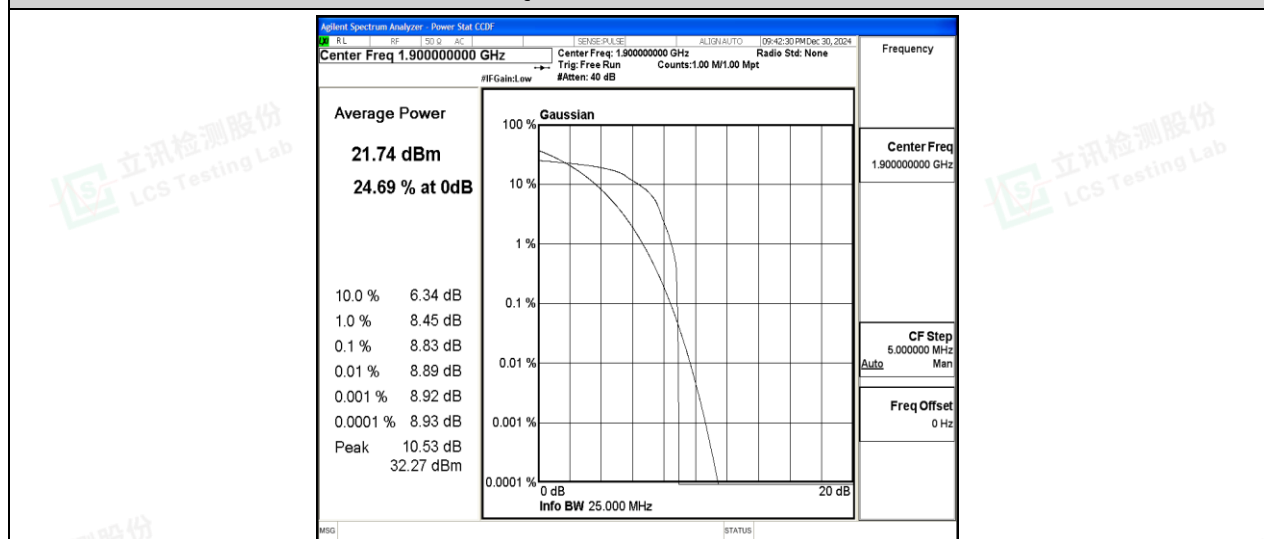
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Band2-20MHz-16QAM-18900-1-0-Low-8.66-<=13-PASS



Band2-20MHz-16QAM-18900-6-0-Low-9.31-<=13-PASS



Band2-20MHz-16QAM-19100-1-0-High-8.83-<=13-PASS

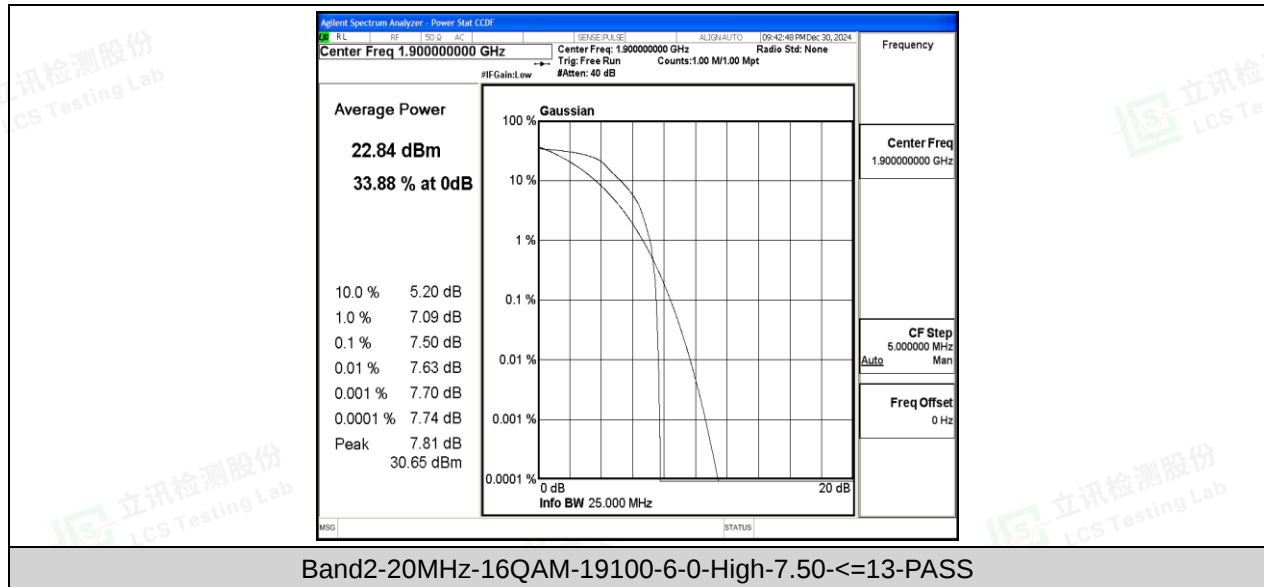


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B.3 26dB Bandwidth and Occupied Bandwidth for M1

Test Result

Band	Bandwidth	Modulation	Channel	RB Size	RB Start	NB Index	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band2	1.4MHz	18607	QPSK	6	0	Low	1.0876	1.265	PASS
Band2	1.4MHz	18900	QPSK	6	0	Low	1.1002	1.283	PASS
Band2	1.4MHz	19193	QPSK	6	0	High	1.0923	1.293	PASS
Band2	1.4MHz	18607	16QAM	6	0	Low	1.0940	1.267	PASS
Band2	1.4MHz	18900	16QAM	6	0	Low	1.0948	1.307	PASS
Band2	1.4MHz	19193	16QAM	6	0	High	1.0940	1.289	PASS
Band2	3MHz	18615	QPSK	6	0	Low	1.1090	1.321	PASS
Band2	3MHz	18900	QPSK	6	0	Low	1.1135	1.316	PASS
Band2	3MHz	19185	QPSK	6	0	High	1.1094	1.380	PASS
Band2	3MHz	18615	16QAM	6	0	Low	1.1147	1.320	PASS
Band2	3MHz	18900	16QAM	6	0	Low	1.1135	1.323	PASS
Band2	3MHz	19185	16QAM	6	0	High	1.1020	1.393	PASS
Band2	5MHz	18625	QPSK	6	0	Low	1.1734	1.399	PASS
Band2	5MHz	18900	QPSK	6	0	Low	1.1763	1.510	PASS
Band2	5MHz	19175	QPSK	6	0	High	1.1896	1.653	PASS
Band2	5MHz	18625	16QAM	6	0	Low	1.1826	1.420	PASS
Band2	5MHz	18900	16QAM	6	0	Low	1.1695	1.499	PASS
Band2	5MHz	19175	16QAM	6	0	High	1.1759	1.631	PASS
Band2	10MHz	18650	QPSK	6	0	Low	1.3665	2.633	PASS
Band2	10MHz	18900	QPSK	6	0	Low	1.3407	2.267	PASS
Band2	10MHz	19150	QPSK	6	0	High	1.3318	1.822	PASS
Band2	10MHz	18650	16QAM	6	0	Low	1.3576	2.705	PASS
Band2	10MHz	18900	16QAM	6	0	Low	1.3454	2.306	PASS
Band2	10MHz	19150	16QAM	6	0	High	1.3309	1.782	PASS
Band2	15MHz	18675	QPSK	6	0	Low	1.5328	2.633	PASS
Band2	15MHz	18900	QPSK	6	0	Low	1.5739	3.661	PASS
Band2	15MHz	19125	QPSK	6	0	High	1.5660	3.326	PASS
Band2	15MHz	18675	16QAM	6	0	Low	1.5475	2.352	PASS
Band2	15MHz	18900	16QAM	6	0	Low	1.5579	3.516	PASS
Band2	15MHz	19125	16QAM	6	0	High	1.5979	3.411	PASS
Band2	20MHz	18700	QPSK	6	0	Low	2.0140	4.296	PASS
Band2	20MHz	18900	QPSK	6	0	Low	2.2633	4.905	PASS
Band2	20MHz	19100	QPSK	6	0	High	2.0810	4.265	PASS



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Band2	20MHz	18700	16QAM	6	0	Low	2.1237	4.374	PASS
Band2	20MHz	18900	16QAM	6	0	Low	2.4649	4.724	PASS
Band2	20MHz	19100	16QAM	6	0	High	2.0830	4.734	PASS





Test Graphs

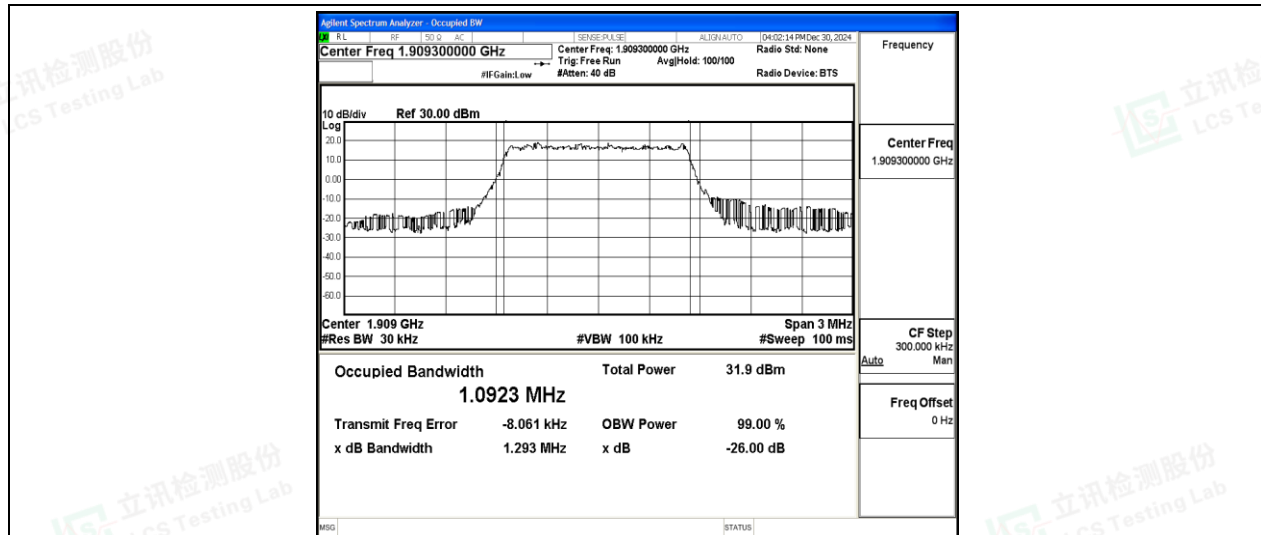


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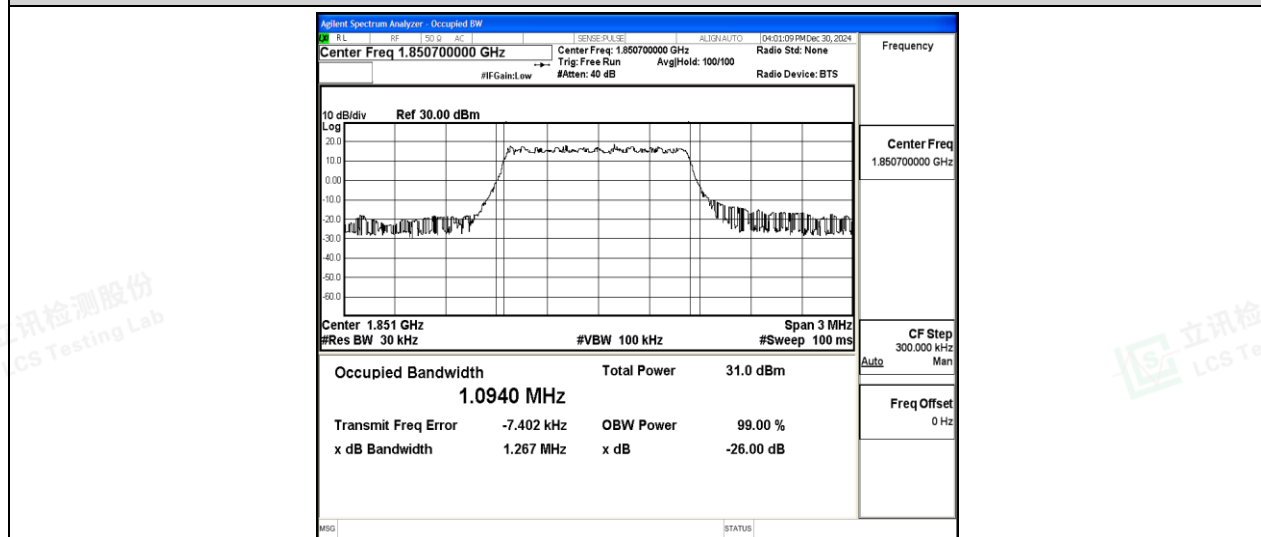
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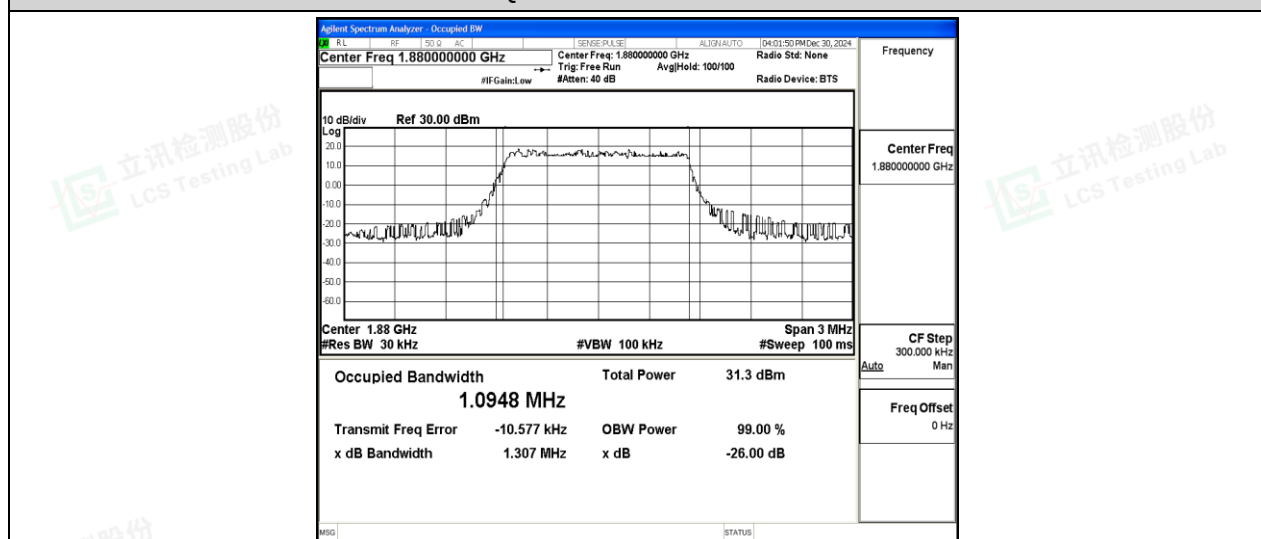
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Band2-1.4MHz-QPSK-19193-6-0-High-1.0923-1.293-PASS

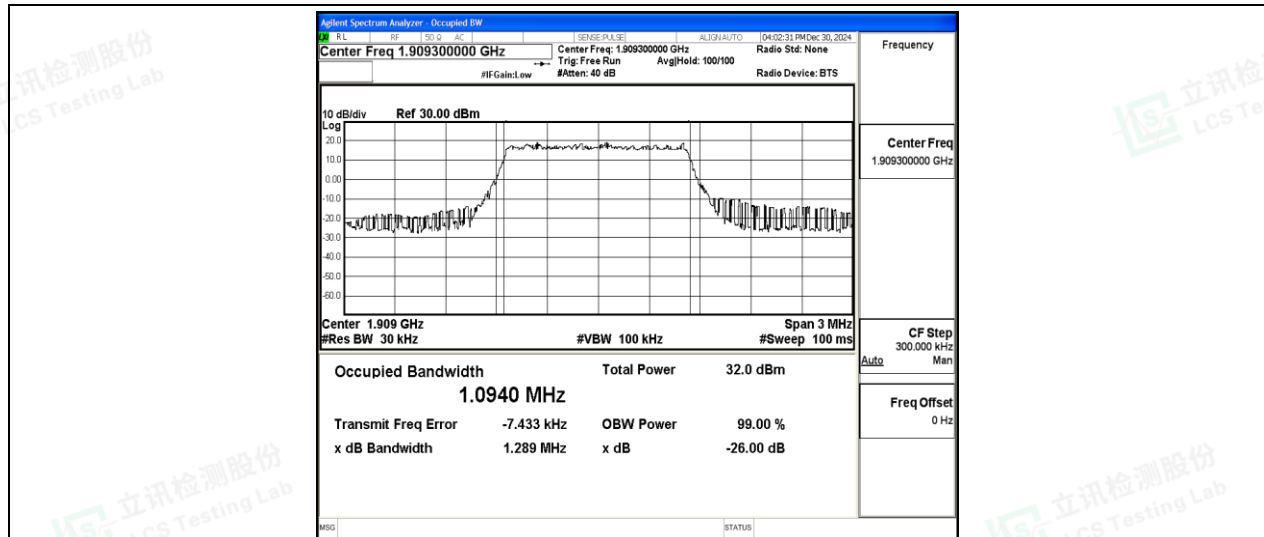


Band2-1.4MHz-16QAM-18607-6-0-Low-1.0940-1.267-PASS

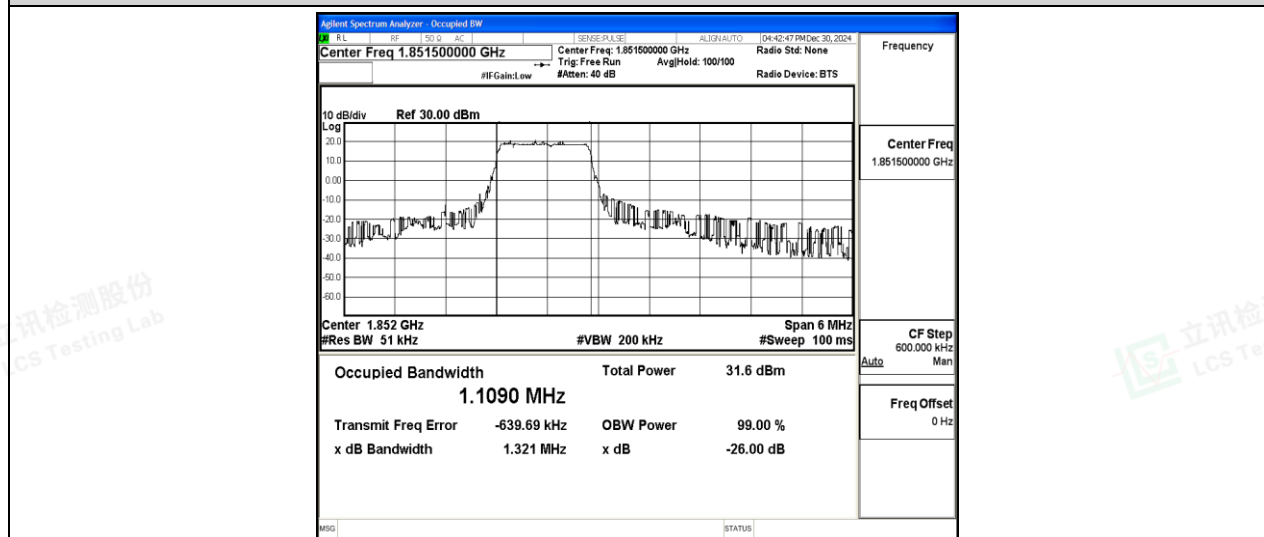


Band2-1.4MHz-16QAM-18900-6-0-Low-1.0948-1.307-PASS

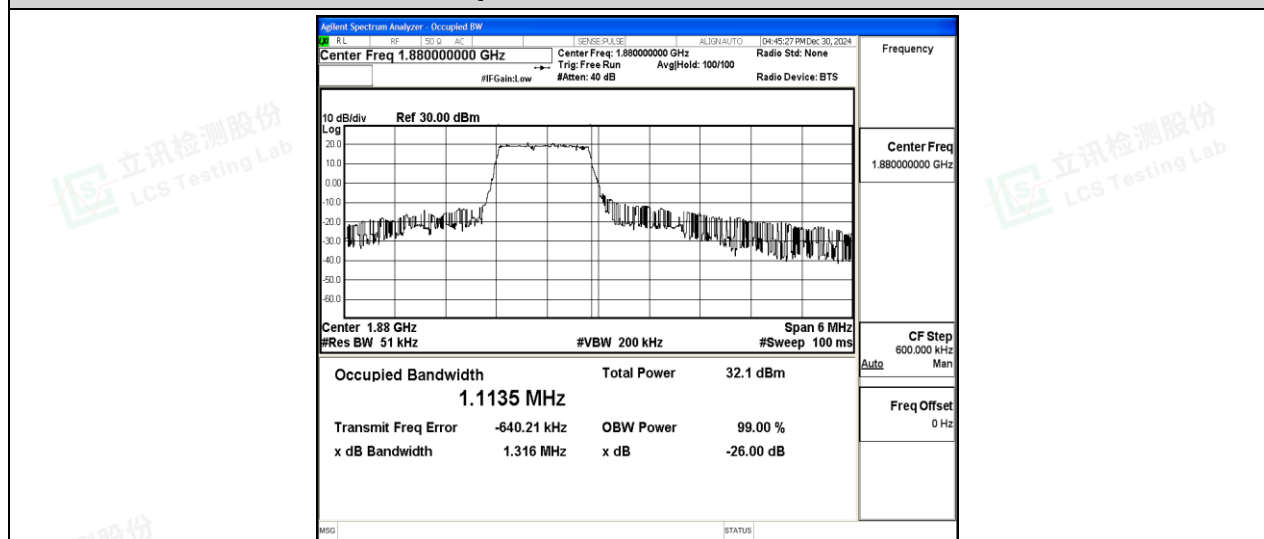




Band2-1.4MHz-16QAM-19193-6-0-High-1.0940-1.289-PASS



Band2-3MHz-QPSK-18615-6-0-Low-1.1090-1.321-PASS



Band2-3MHz-QPSK-18900-6-0-Low-1.1135-1.316-PASS

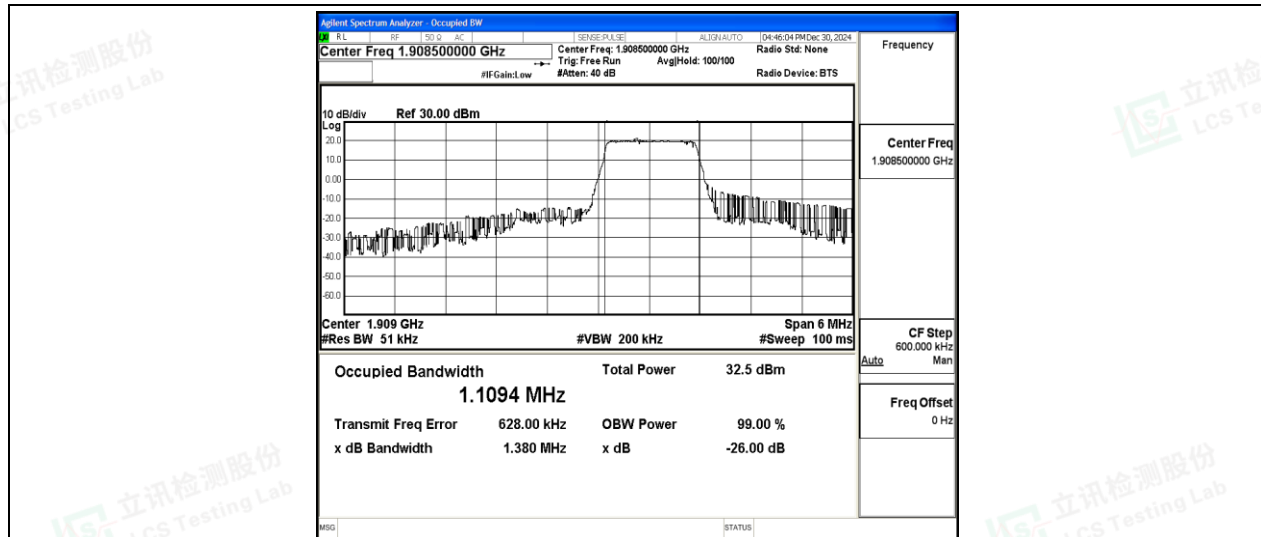


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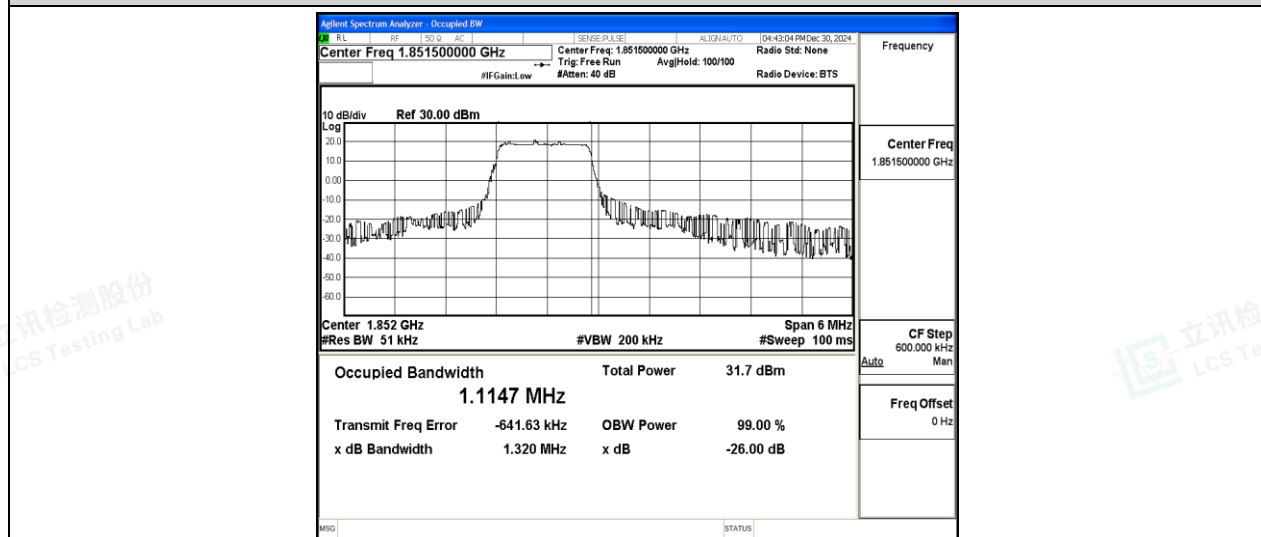
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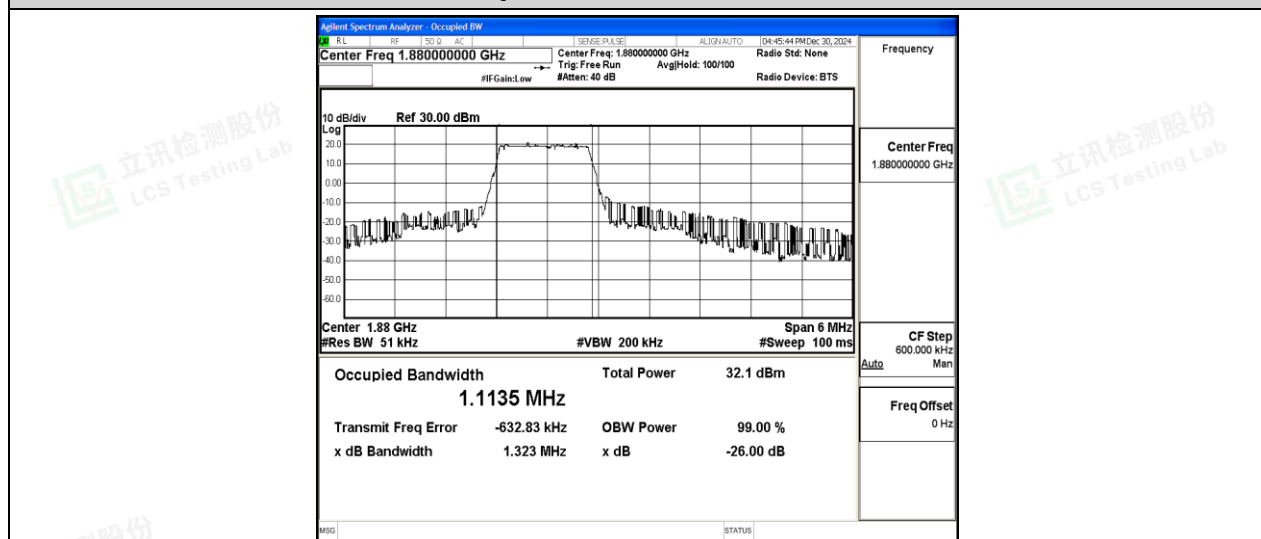
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Band2-3MHz-QPSK-19185-6-0-High-1.1094-1.380-PASS



Band2-3MHz-16QAM-18615-6-0-Low-1.1147-1.320-PASS



Band2-3MHz-16QAM-18900-6-0-Low-1.1135-1.323-PASS



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