



Appendix J: Test Data for CatM1 Band 26

Product Name: IoTgo Track-Solar iot

Test Model: iot

Environmental Conditions

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





J.1 Conducted Output Power Data for M1

Test Result

Band	Bandwidth	Modulation	Channel	RB Size	RB Start	NBIndex	Result(dBm)	Verdict
Band26	1.4MHz	26797	QPSK	1	0	Low	21.59	PASS
Band26	1.4MHz	26797	QPSK	1	5	Low	21.48	PASS
Band26	1.4MHz	26797	QPSK	6	0	Low	19.49	PASS
Band26	1.4MHz	26915	QPSK	1	0	Low	21.62	PASS
Band26	1.4MHz	26915	QPSK	1	5	Low	21.33	PASS
Band26	1.4MHz	26915	QPSK	6	0	Low	19.36	PASS
Band26	1.4MHz	27033	QPSK	1	0	High	21.62	PASS
Band26	1.4MHz	27033	QPSK	1	5	High	21.26	PASS
Band26	1.4MHz	27033	QPSK	6	0	High	19.32	PASS
Band26	1.4MHz	26797	16QAM	1	0	Low	20.53	PASS
Band26	1.4MHz	26797	16QAM	1	5	Low	20.43	PASS
Band26	1.4MHz	26797	16QAM	6	0	Low	19.49	PASS
Band26	1.4MHz	26915	16QAM	1	0	Low	20.35	PASS
Band26	1.4MHz	26915	16QAM	1	5	Low	20.29	PASS
Band26	1.4MHz	26915	16QAM	6	0	Low	19.35	PASS
Band26	1.4MHz	27033	16QAM	1	0	High	20.43	PASS
Band26	1.4MHz	27033	16QAM	1	5	High	20.36	PASS
Band26	1.4MHz	27033	16QAM	6	0	High	19.31	PASS
Band26	3MHz	26805	QPSK	1	0	Low	21.66	PASS
Band26	3MHz	26805	QPSK	1	5	Low	21.49	PASS
Band26	3MHz	26805	QPSK	6	0	Low	19.38	PASS
Band26	3MHz	26915	QPSK	1	0	Low	21.68	PASS
Band26	3MHz	26915	QPSK	1	5	Low	21.40	PASS
Band26	3MHz	26915	QPSK	6	0	Low	19.43	PASS
Band26	3MHz	27025	QPSK	1	0	High	21.53	PASS
Band26	3MHz	27025	QPSK	1	5	High	21.31	PASS
Band26	3MHz	27025	QPSK	6	0	High	19.38	PASS
Band26	3MHz	26805	16QAM	1	0	Low	20.56	PASS
Band26	3MHz	26805	16QAM	1	5	Low	20.50	PASS
Band26	3MHz	26805	16QAM	6	0	Low	19.44	PASS
Band26	3MHz	26915	16QAM	1	0	Low	20.41	PASS
Band26	3MHz	26915	16QAM	1	5	Low	20.27	PASS
Band26	3MHz	26915	16QAM	6	0	Low	19.43	PASS
Band26	3MHz	27025	16QAM	1	0	High	20.49	PASS
Band26	3MHz	27025	16QAM	1	5	High	20.31	PASS





Band26	3MHz	27025	16QAM	6	0	High	19.38	PASS
Band26	5MHz	26815	QPSK	1	0	Low	21.88	PASS
Band26	5MHz	26815	QPSK	1	5	Low	21.78	PASS
Band26	5MHz	26815	QPSK	6	0	Low	20.68	PASS
Band26	5MHz	26915	QPSK	1	0	Low	21.60	PASS
Band26	5MHz	26915	QPSK	1	5	Low	21.26	PASS
Band26	5MHz	26915	QPSK	6	0	Low	20.52	PASS
Band26	5MHz	27015	QPSK	1	0	High	21.40	PASS
Band26	5MHz	27015	QPSK	1	5	High	21.18	PASS
Band26	5MHz	27015	QPSK	6	0	High	20.45	PASS
Band26	5MHz	26815	16QAM	1	0	Low	22.02	PASS
Band26	5MHz	26815	16QAM	1	5	Low	21.93	PASS
Band26	5MHz	26815	16QAM	6	0	Low	20.68	PASS
Band26	5MHz	26915	16QAM	1	0	Low	21.16	PASS
Band26	5MHz	26915	16QAM	1	5	Low	21.02	PASS
Band26	5MHz	26915	16QAM	6	0	Low	20.60	PASS
Band26	5MHz	27015	16QAM	1	0	High	21.40	PASS
Band26	5MHz	27015	16QAM	1	5	High	21.34	PASS
Band26	5MHz	27015	16QAM	6	0	High	20.45	PASS
Band26	10MHz	26840	QPSK	1	0	Low	21.89	PASS
Band26	10MHz	26840	QPSK	1	5	Low	21.80	PASS
Band26	10MHz	26840	QPSK	6	0	Low	20.70	PASS
Band26	10MHz	26915	QPSK	1	0	Low	21.64	PASS
Band26	10MHz	26915	QPSK	1	5	Low	21.34	PASS
Band26	10MHz	26915	QPSK	6	0	Low	20.49	PASS
Band26	10MHz	26990	QPSK	1	0	High	21.36	PASS
Band26	10MHz	26990	QPSK	1	5	High	21.21	PASS
Band26	10MHz	26990	QPSK	6	0	High	20.38	PASS
Band26	10MHz	26840	16QAM	1	0	Low	22.05	PASS
Band26	10MHz	26840	16QAM	1	5	Low	22.04	PASS
Band26	10MHz	26840	16QAM	6	0	Low	20.70	PASS
Band26	10MHz	26915	16QAM	1	0	Low	21.26	PASS
Band26	10MHz	26915	16QAM	1	5	Low	21.04	PASS
Band26	10MHz	26915	16QAM	6	0	Low	20.58	PASS
Band26	10MHz	26990	16QAM	1	0	High	21.41	PASS
Band26	10MHz	26990	16QAM	1	5	High	21.30	PASS
Band26	10MHz	26990	16QAM	6	0	High	20.44	PASS
Band26	15MHz	26865	QPSK	1	0	Low	21.93	PASS
Band26	15MHz	26865	QPSK	1	5	Low	21.83	PASS
Band26	15MHz	26865	QPSK	6	0	Low	21.78	PASS
Band26	15MHz	26915	QPSK	1	0	Low	21.58	PASS



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Band26	15MHz	26915	QPSK	1	5	Low	21.39	PASS
Band26	15MHz	26915	QPSK	6	0	Low	21.61	PASS
Band26	15MHz	26965	QPSK	1	0	High	21.39	PASS
Band26	15MHz	26965	QPSK	1	5	High	21.18	PASS
Band26	15MHz	26965	QPSK	6	0	High	21.41	PASS
Band26	15MHz	26865	16QAM	1	0	Low	22.16	PASS
Band26	15MHz	26865	16QAM	1	5	Low	21.98	PASS
Band26	15MHz	26865	16QAM	6	0	Low	21.65	PASS
Band26	15MHz	26915	16QAM	1	0	Low	21.31	PASS
Band26	15MHz	26915	16QAM	1	5	Low	21.11	PASS
Band26	15MHz	26915	16QAM	6	0	Low	21.75	PASS
Band26	15MHz	26965	16QAM	1	0	High	21.33	PASS
Band26	15MHz	26965	16QAM	1	5	High	21.25	PASS
Band26	15MHz	26965	16QAM	6	0	High	21.50	PASS





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

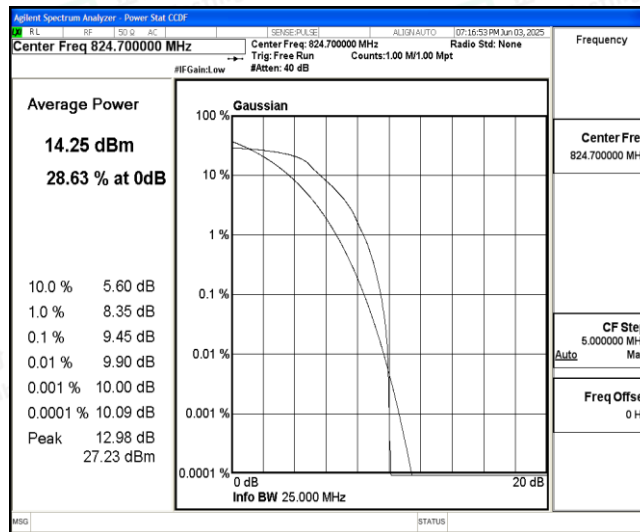
Test Result

Band	Bandwidth	Modulation	Channel	RB Size	RB Start	NBIndex	Result(dB)	Limit(dB)	Verdict
Band26	1.4MHz	26797	QPSK	6	0	Low	9.45	<=13	PASS
Band26	1.4MHz	26915	QPSK	6	0	Low	8.97	<=13	PASS
Band26	1.4MHz	27033	QPSK	6	0	High	9.62	<=13	PASS
Band26	1.4MHz	26797	16QAM	6	0	Low	9.61	<=13	PASS
Band26	1.4MHz	26915	16QAM	6	0	Low	9.78	<=13	PASS
Band26	1.4MHz	27033	16QAM	6	0	High	9.87	<=13	PASS
Band26	3MHz	26805	QPSK	6	0	Low	8.97	<=13	PASS
Band26	3MHz	26915	QPSK	6	0	Low	9.29	<=13	PASS
Band26	3MHz	27025	QPSK	6	0	High	8.59	<=13	PASS
Band26	3MHz	26805	16QAM	6	0	Low	10.48	<=13	PASS
Band26	3MHz	26915	16QAM	6	0	Low	9.78	<=13	PASS
Band26	3MHz	27025	16QAM	6	0	High	9.00	<=13	PASS
Band26	5MHz	26815	QPSK	6	0	Low	9.47	<=13	PASS
Band26	5MHz	26915	QPSK	6	0	Low	9.90	<=13	PASS
Band26	5MHz	27015	QPSK	6	0	High	11.40	<=13	PASS
Band26	5MHz	26815	16QAM	6	0	Low	12.46	<=13	PASS
Band26	5MHz	26915	16QAM	6	0	Low	10.89	<=13	PASS
Band26	5MHz	27015	16QAM	6	0	High	10.47	<=13	PASS
Band26	10MHz	26840	QPSK	6	0	Low	8.85	<=13	PASS
Band26	10MHz	26915	QPSK	6	0	Low	8.13	<=13	PASS
Band26	10MHz	26990	QPSK	6	0	High	10.22	<=13	PASS
Band26	10MHz	26840	16QAM	6	0	Low	11.66	<=13	PASS
Band26	10MHz	26915	16QAM	6	0	Low	9.52	<=13	PASS
Band26	10MHz	26990	16QAM	6	0	High	10.71	<=13	PASS
Band26	15MHz	26865	QPSK	6	0	Low	10.06	<=13	PASS
Band26	15MHz	26915	QPSK	6	0	Low	8.53	<=13	PASS
Band26	15MHz	26965	QPSK	6	0	High	8.75	<=13	PASS
Band26	15MHz	26865	16QAM	6	0	Low	9.56	<=13	PASS
Band26	15MHz	26915	16QAM	6	0	Low	9.95	<=13	PASS
Band26	15MHz	26965	16QAM	6	0	High	8.49	<=13	PASS

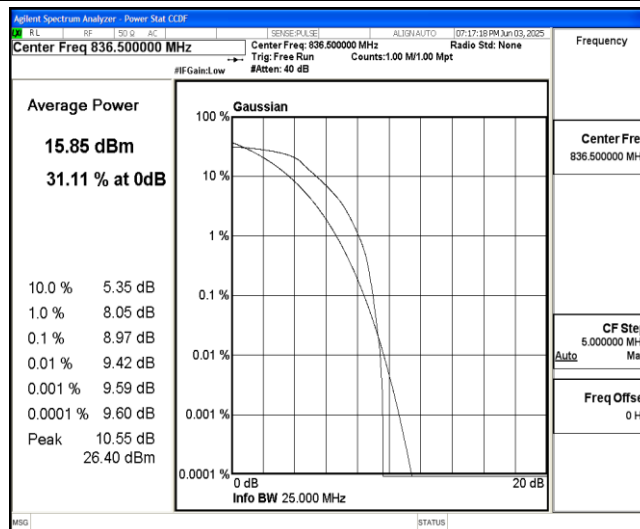




Test Graphs



Band26-1.4MHz-QPSK-26797-6-0-Low-9.45-<=13-PASS



Band26-1.4MHz-QPSK-26915-6-0-Low-8.97-<=13-PASS

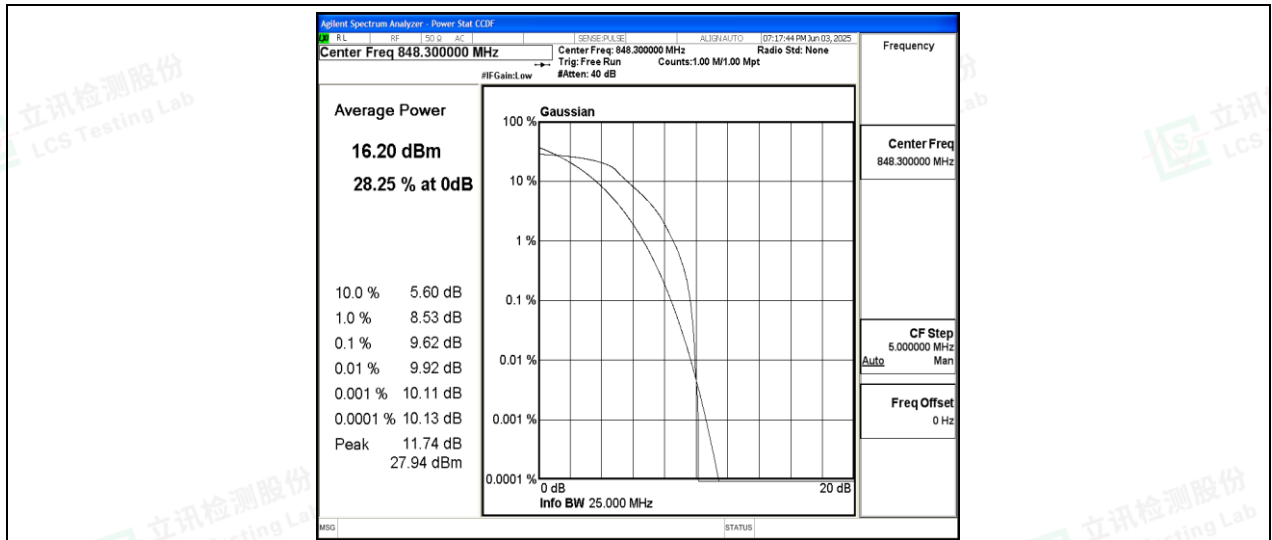


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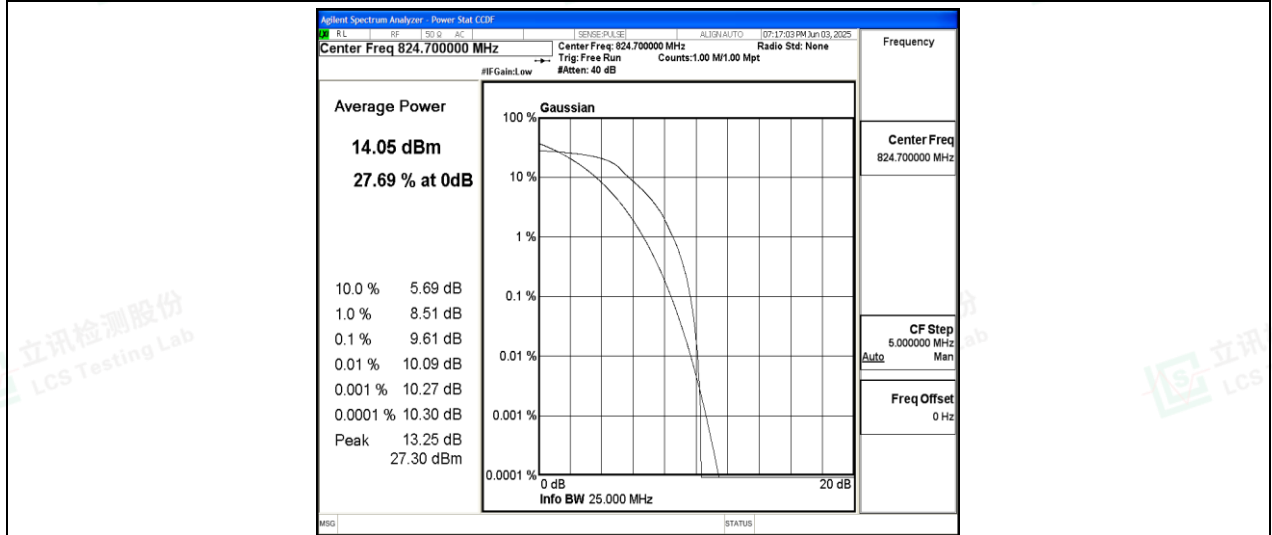
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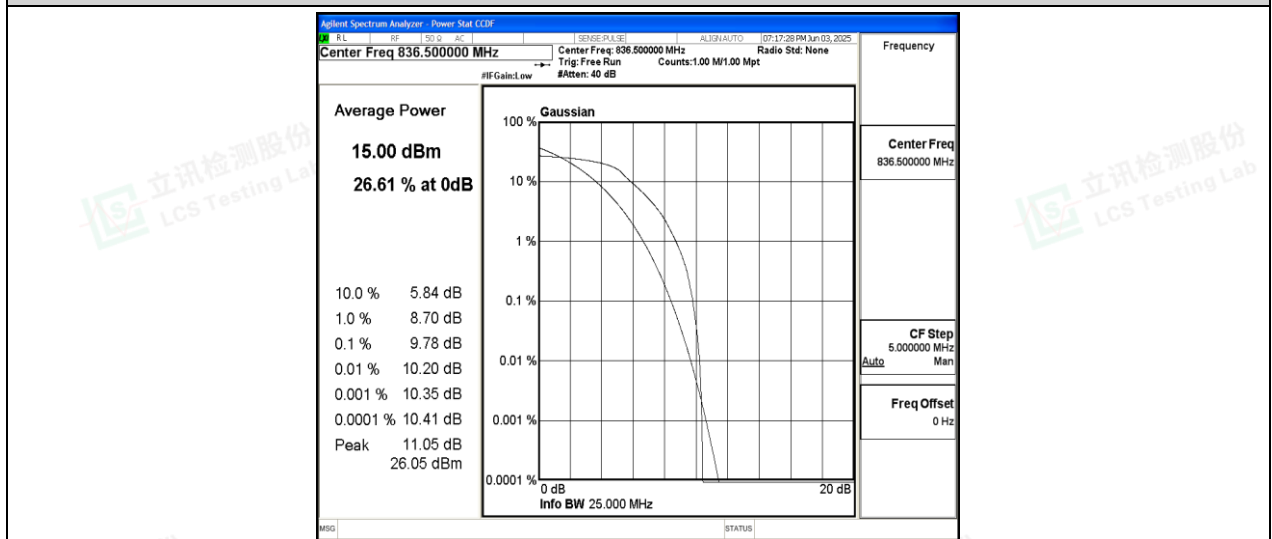
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Band26-1.4MHz-QPSK-27033-6-0-High-9.62-<=13-PASS



Band26-1.4MHz-16QAM-26797-6-0-Low-9.61-<=13-PASS



Band26-1.4MHz-16QAM-26915-6-0-Low-9.78-<=13-PASS

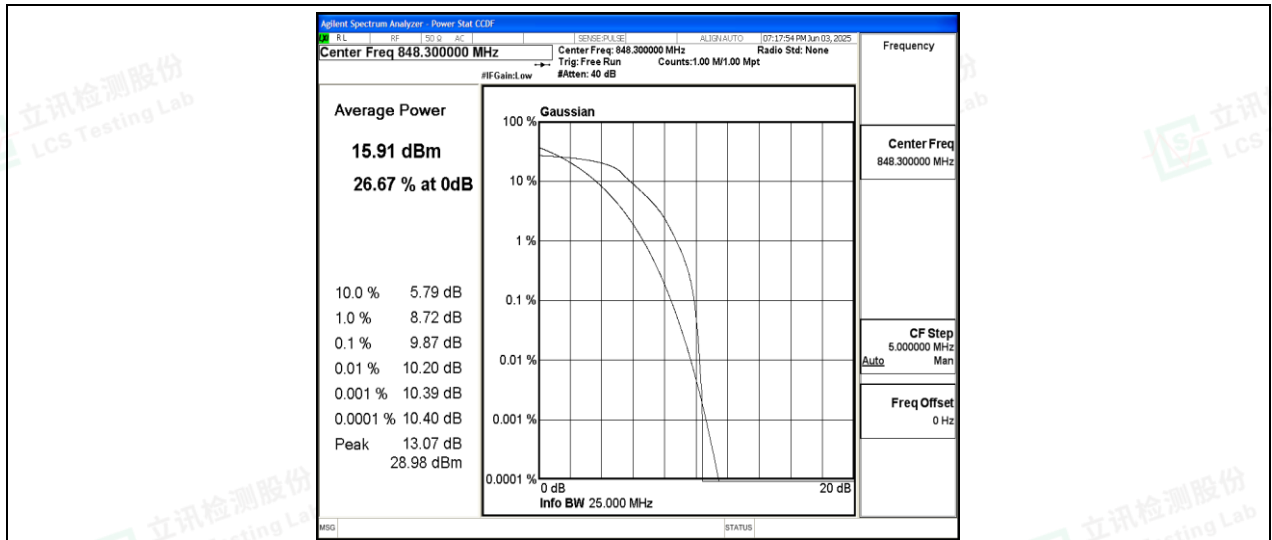


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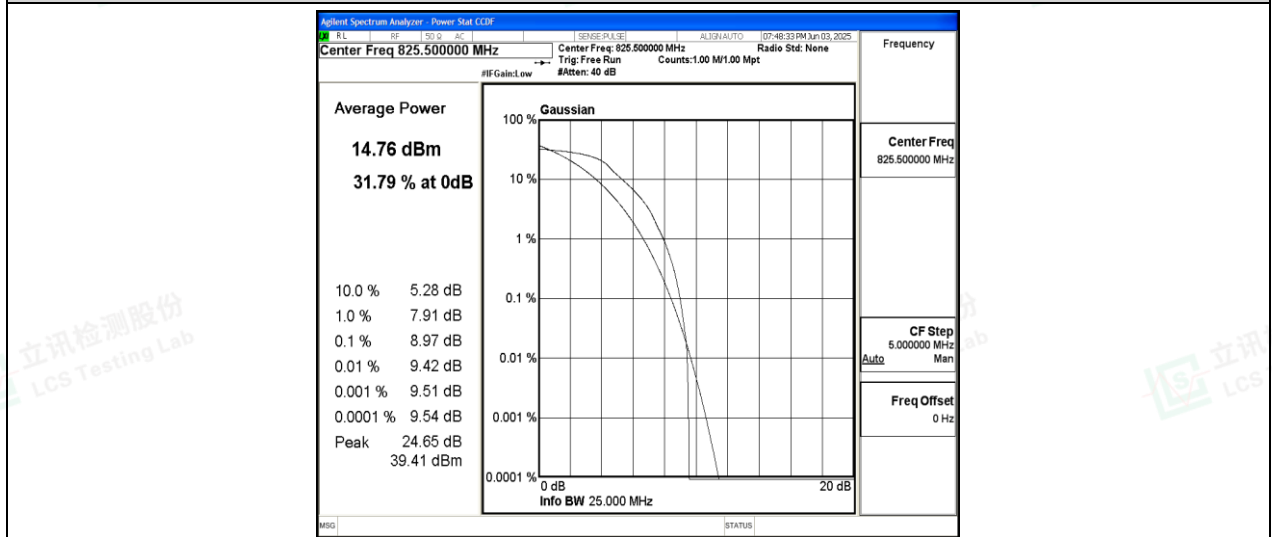
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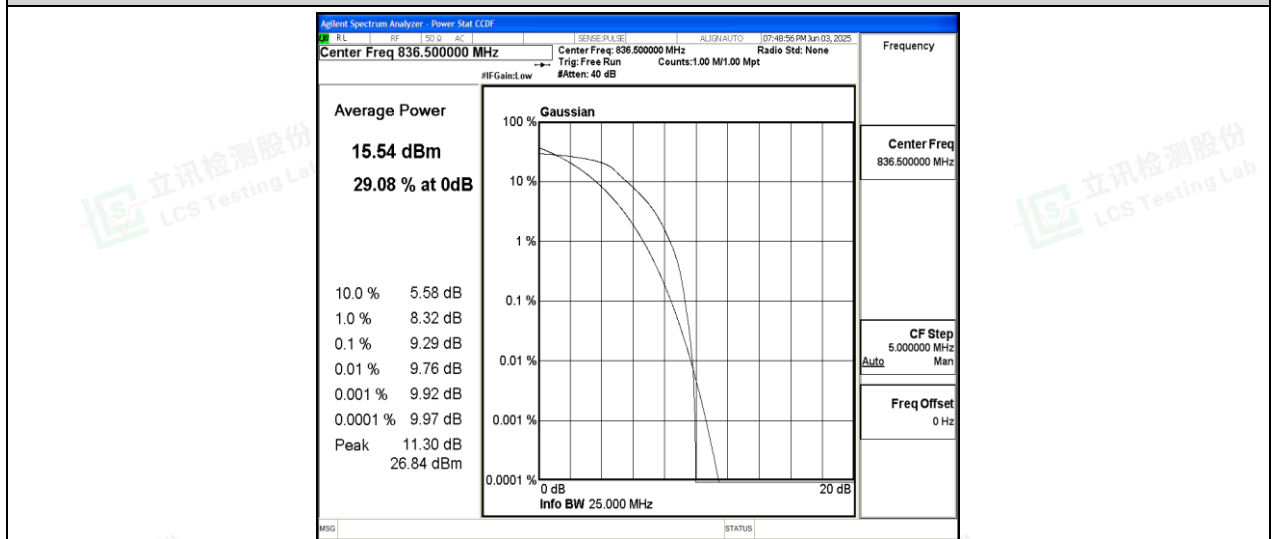
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Band26-1.4MHz-16QAM-27033-6-0-High-9.87-13-PASS



Band26-3MHz-QPSK-26805-6-0-Low-8.97-13-PASS



Band26-3MHz-QPSK-26915-6-0-Low-9.29-13-PASS

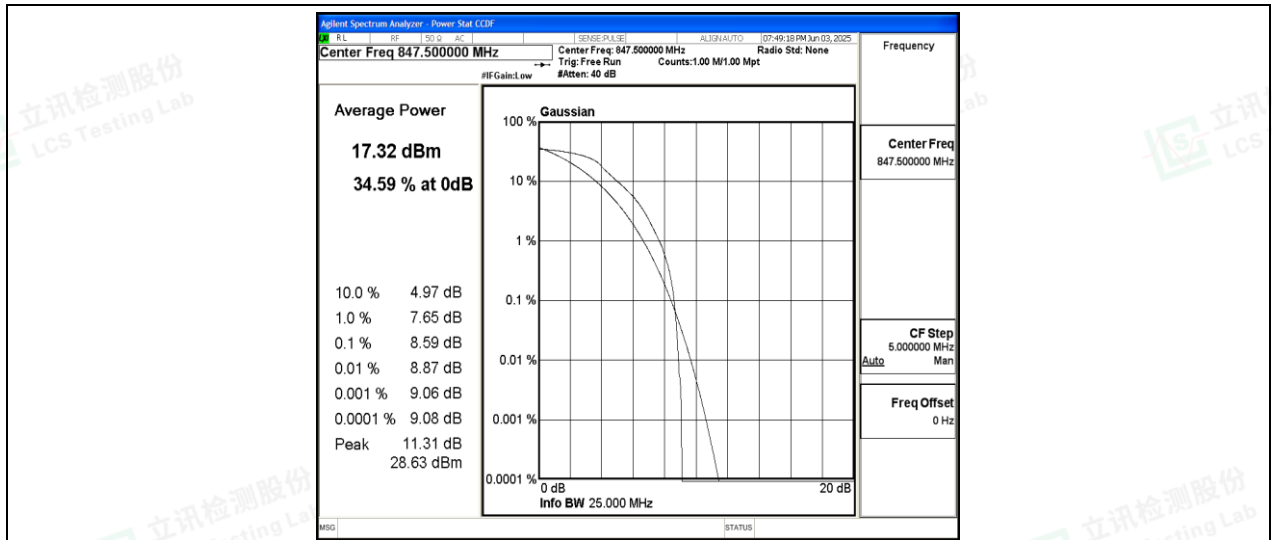


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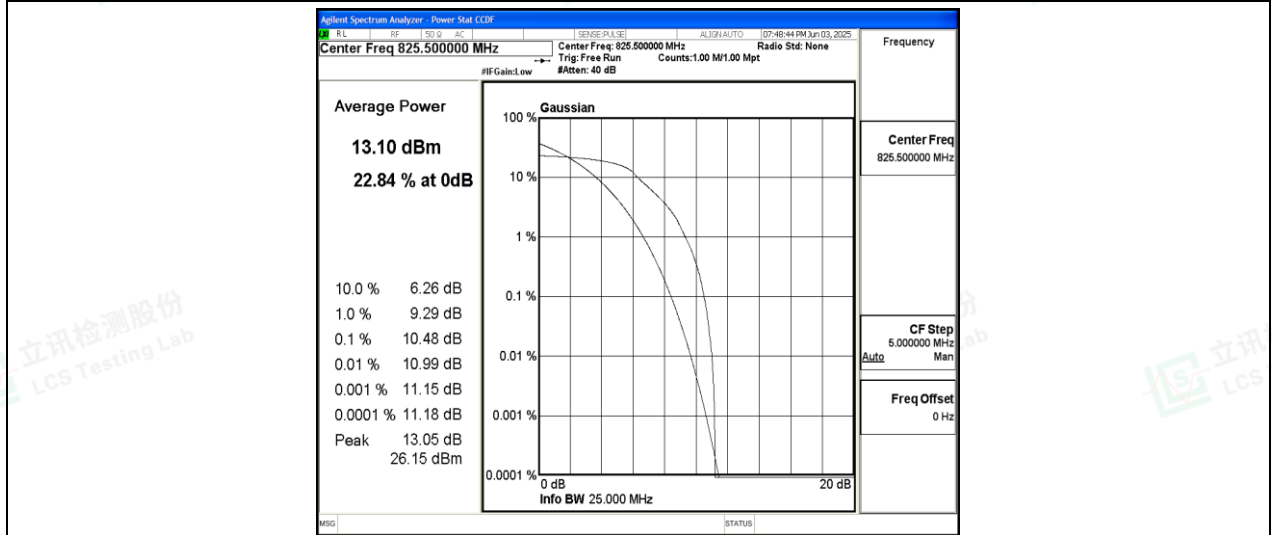
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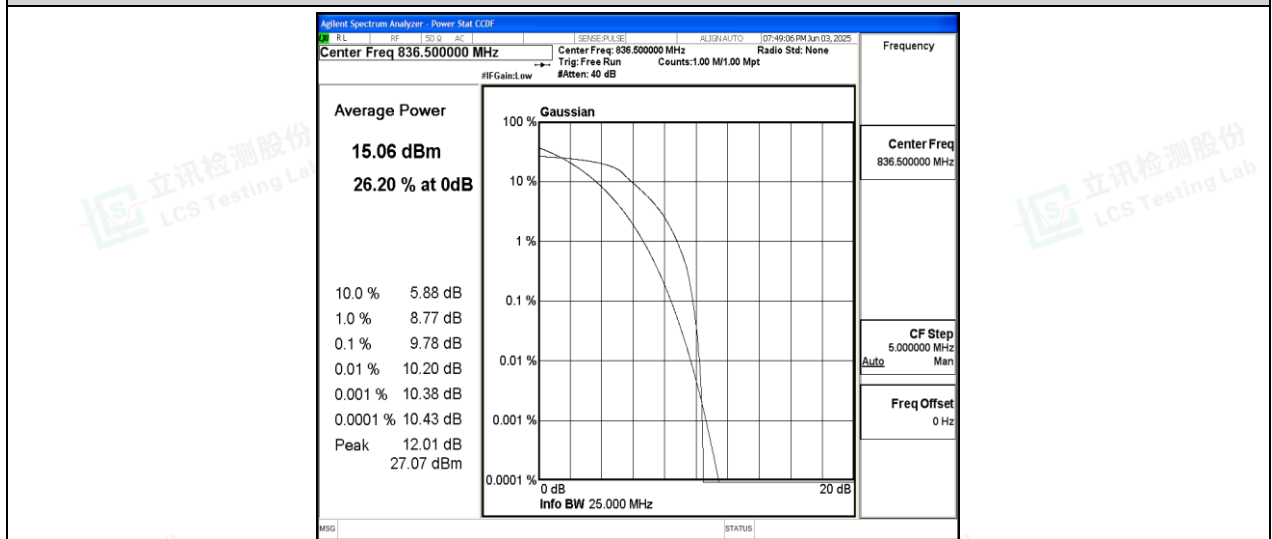
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Band26-3MHz-QPSK-27025-6-0-High-8.59-<=13-PASS



Band26-3MHz-16QAM-26805-6-0-Low-10.48-<=13-PASS



Band26-3MHz-16QAM-26915-6-0-Low-9.78-<=13-PASS

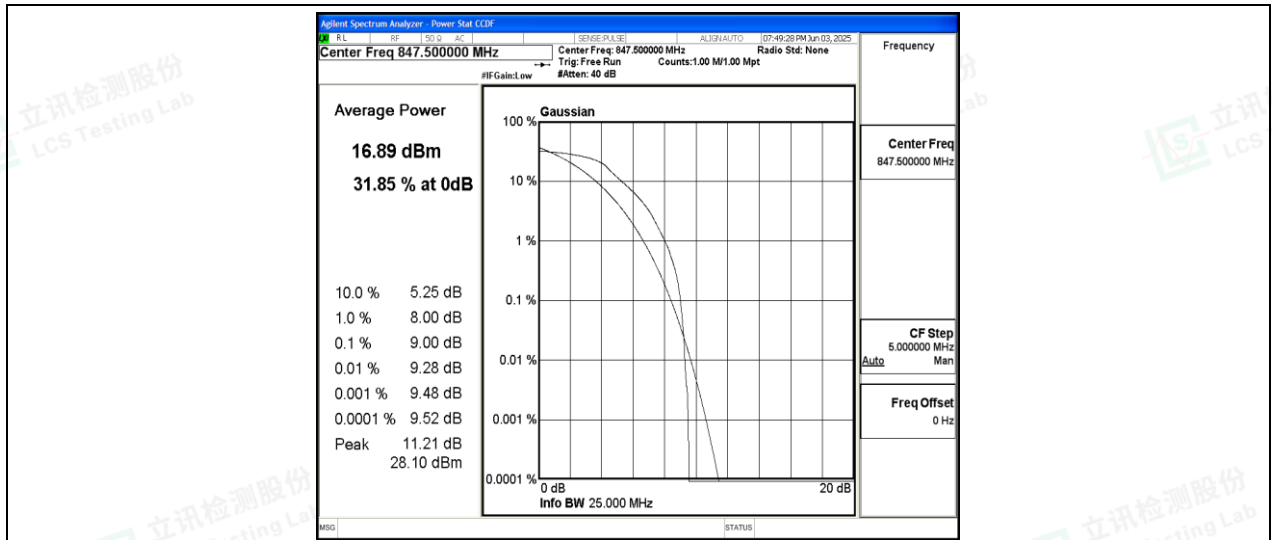


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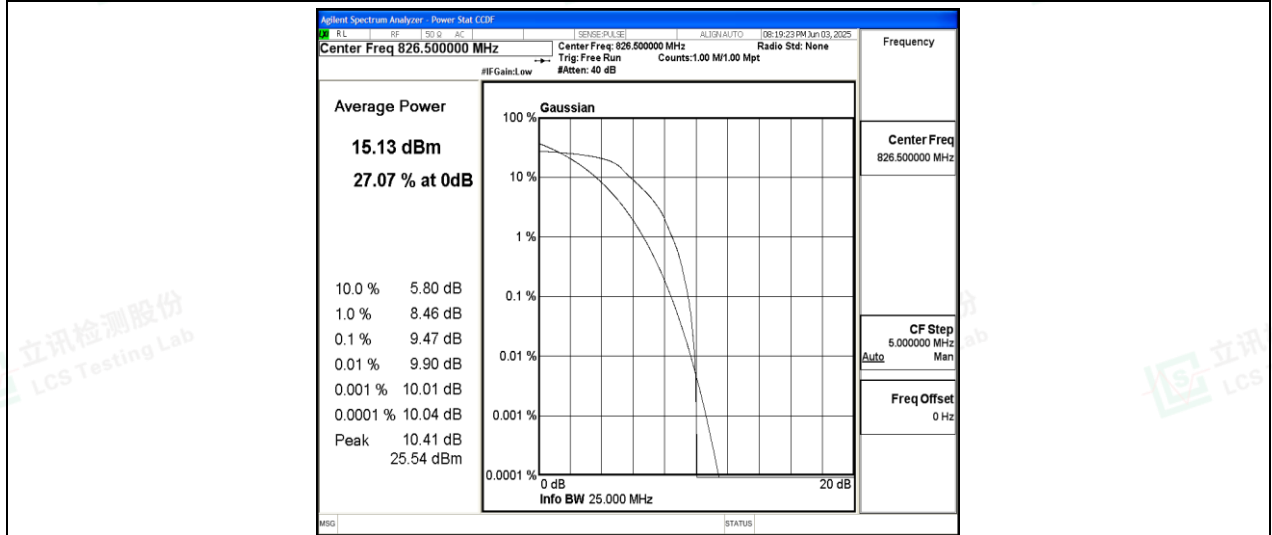
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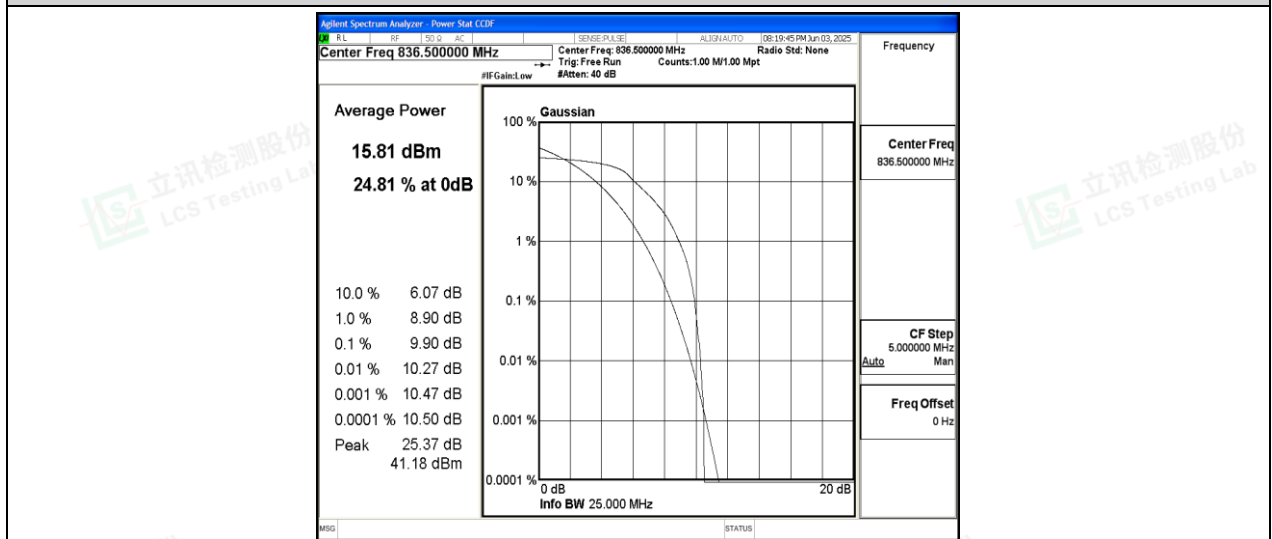
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Band26-3MHz-16QAM-27025-6-0-High-9.00-13-PASS



Band26-5MHz-QPSK-26815-6-0-Low-9.47-13-PASS



Band26-5MHz-QPSK-26915-6-0-Low-9.90-13-PASS

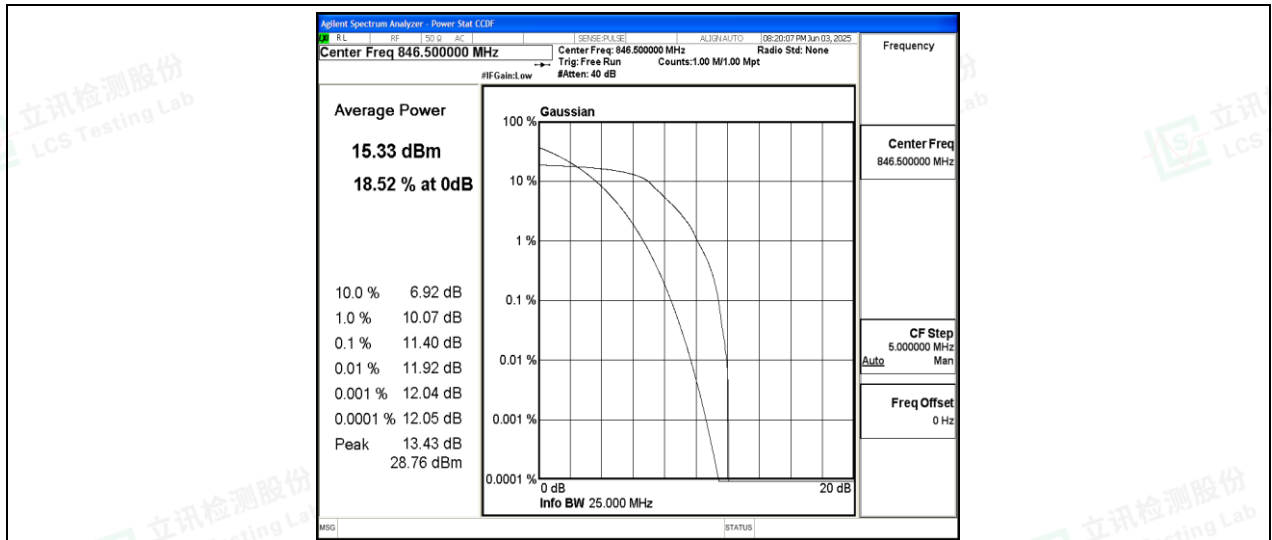


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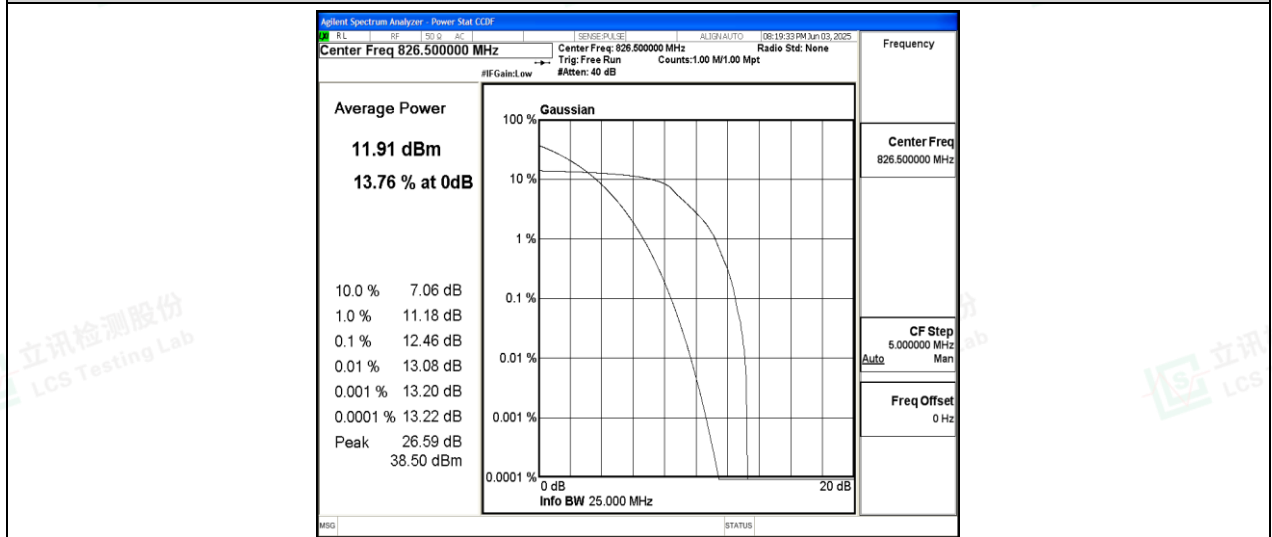
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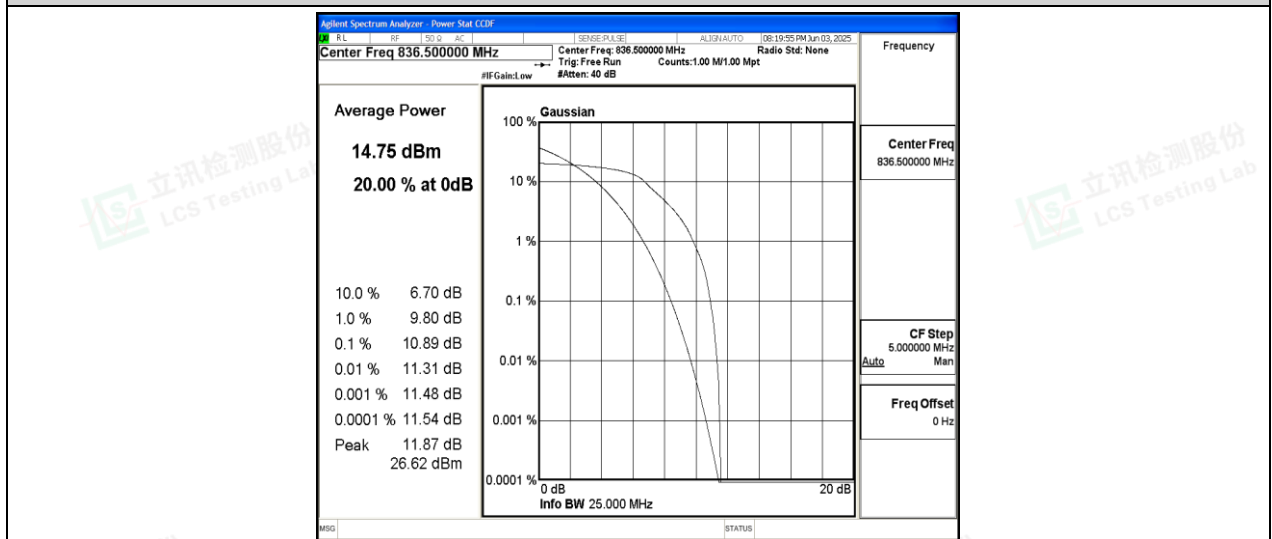
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Band26-5MHz-QPSK-27015-6-0-High-11.40-13-PASS



Band26-5MHz-16QAM-26815-6-0-Low-12.46-13-PASS



Band26-5MHz-16QAM-26915-6-0-Low-10.89-13-PASS

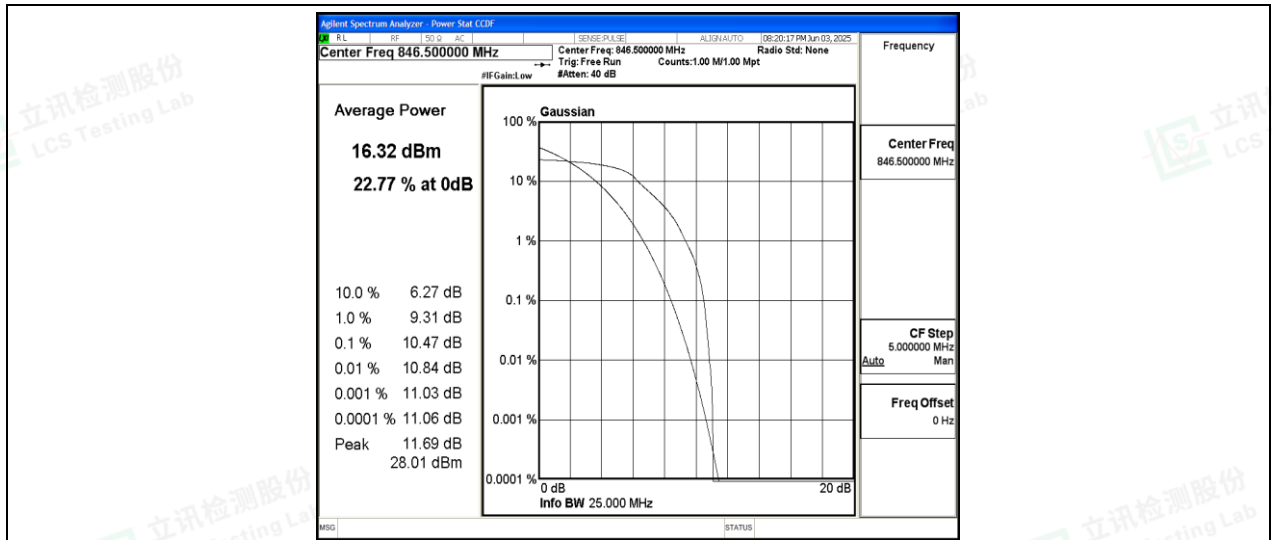


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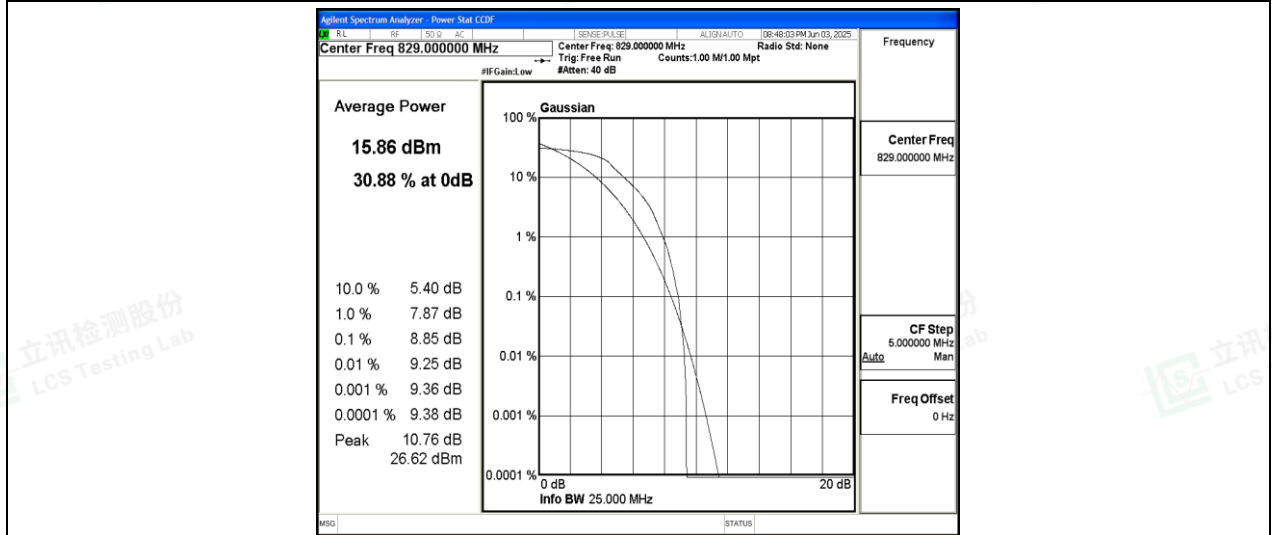
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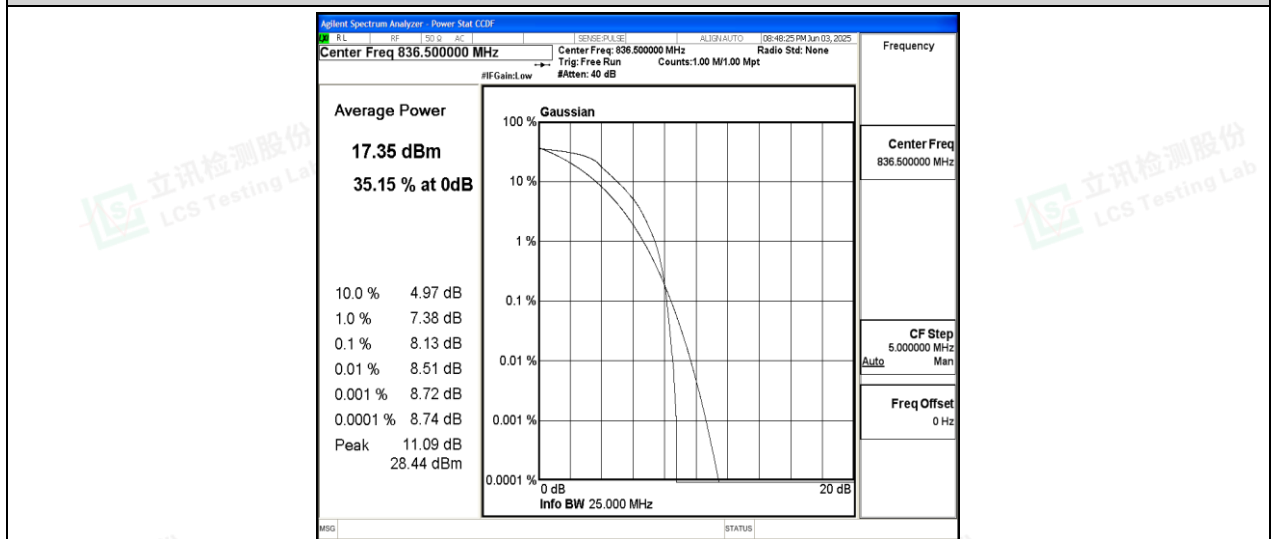
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Band26-10MHz-QPSK-26915-6-0-Low-8.13-<=13-PASS

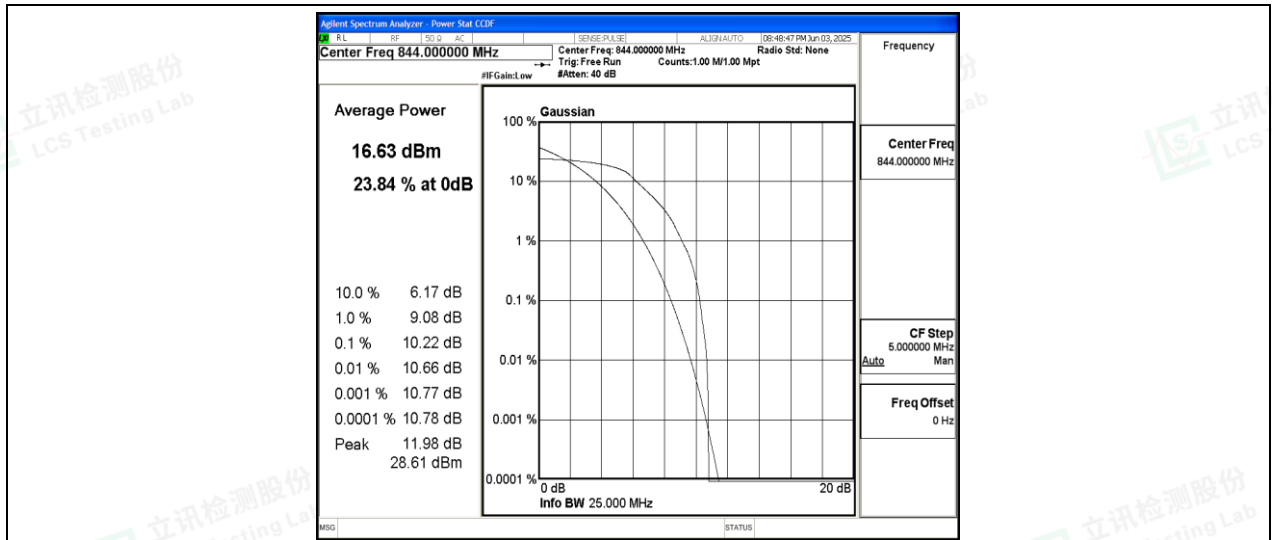


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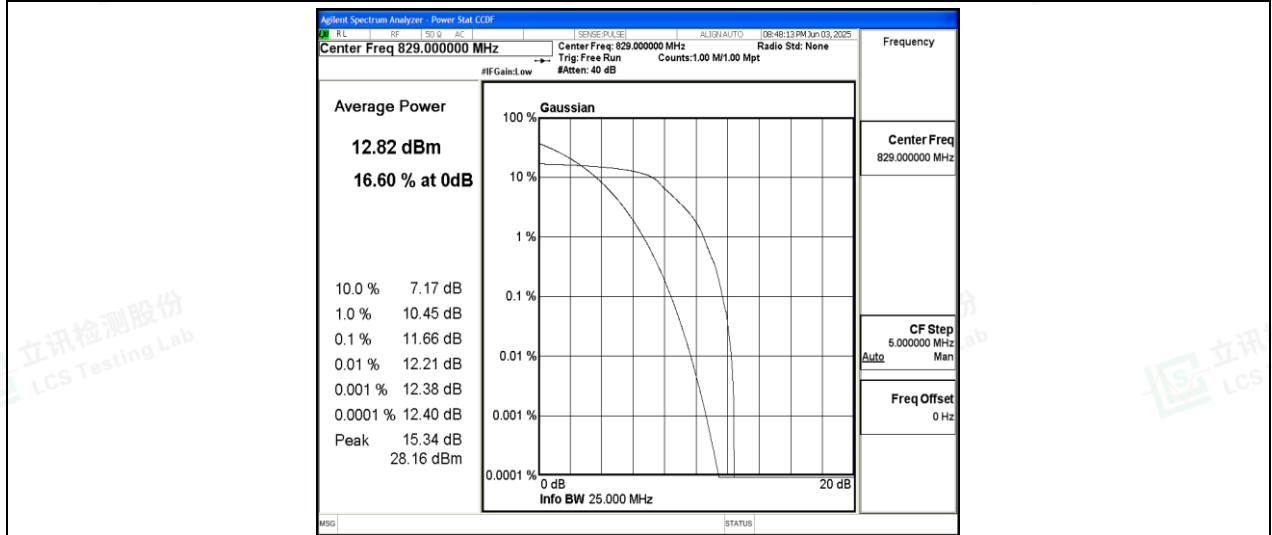
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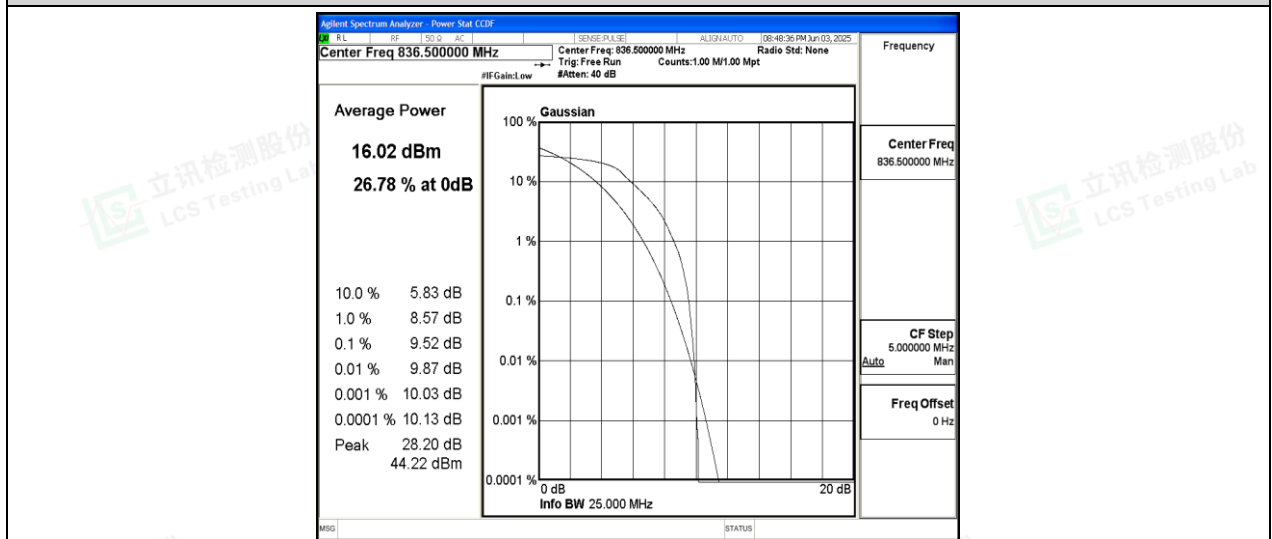
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Band26-10MHz-16QAM-26915-6-0-Low-9.52-<=13-PASS

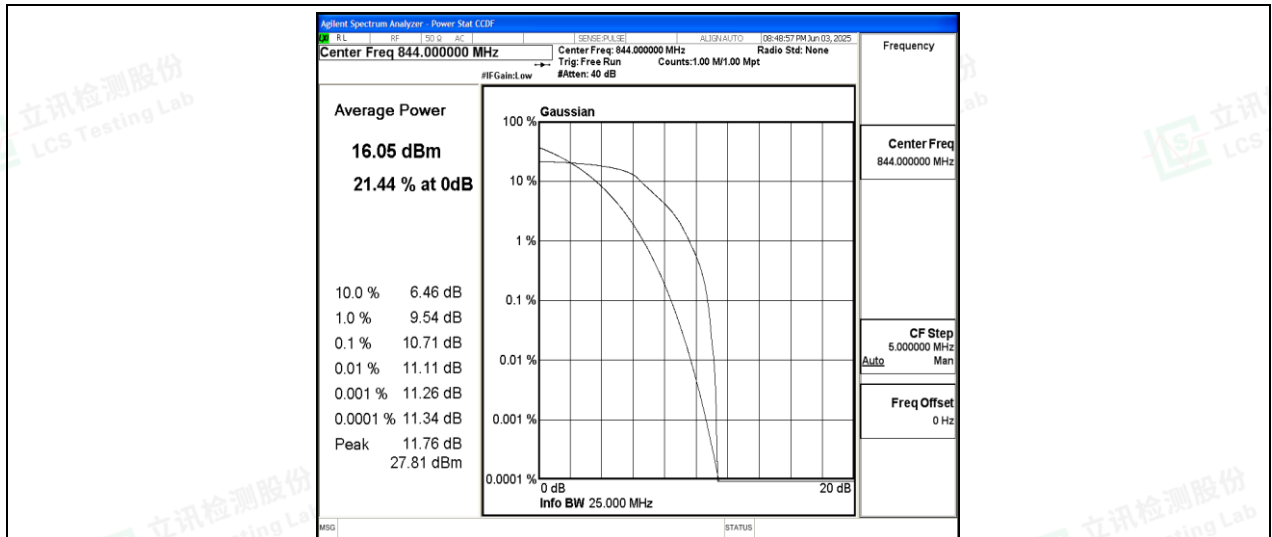


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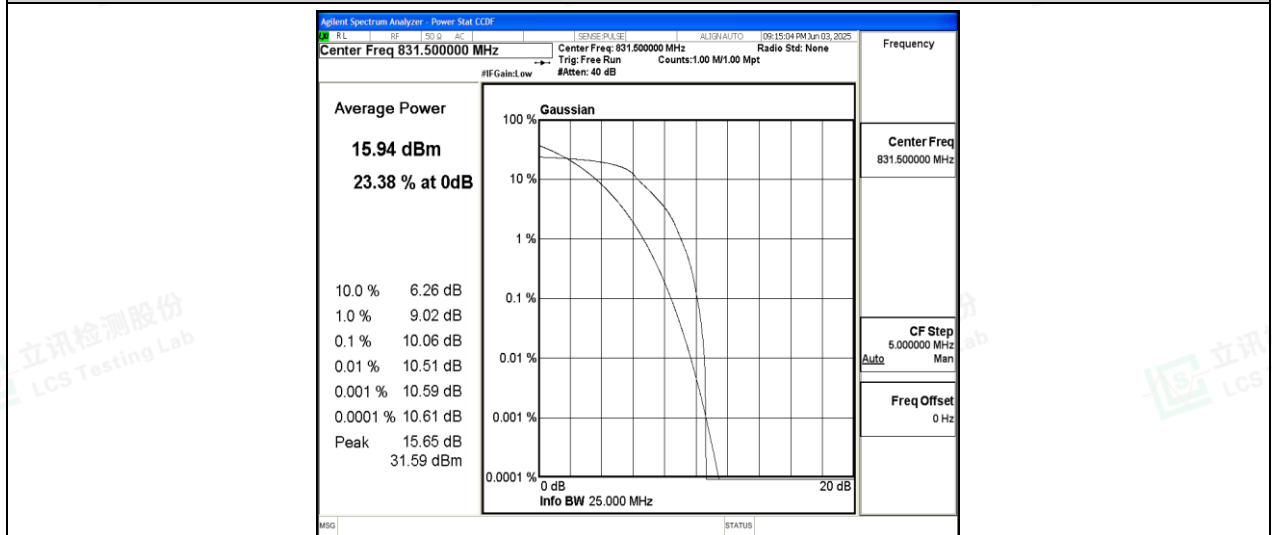
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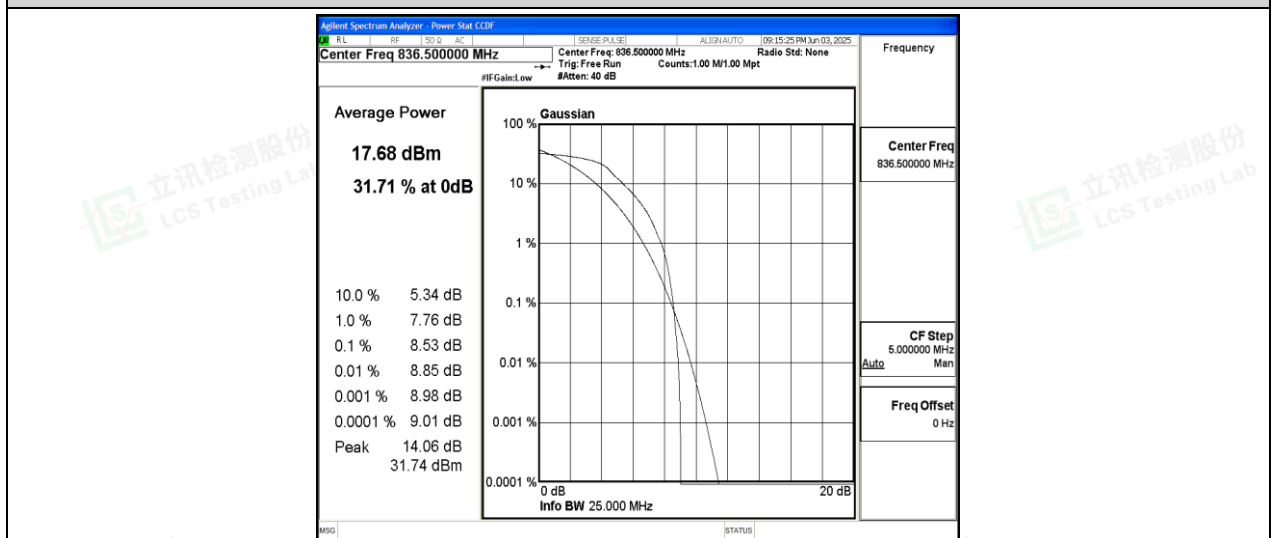
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Band26-10MHz-16QAM-26990-6-0-High-10.71-<=13-PASS



Band26-15MHz-QPSK-26865-6-0-Low-10.06-<=13-PASS



Band26-15MHz-QPSK-26915-6-0-Low-8.53-<=13-PASS

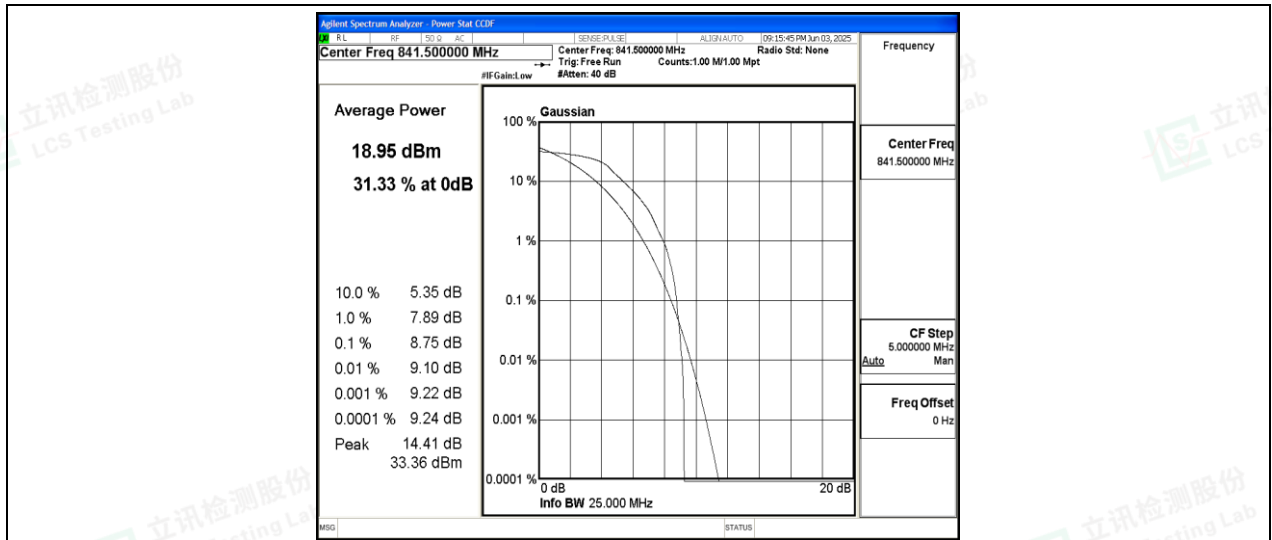


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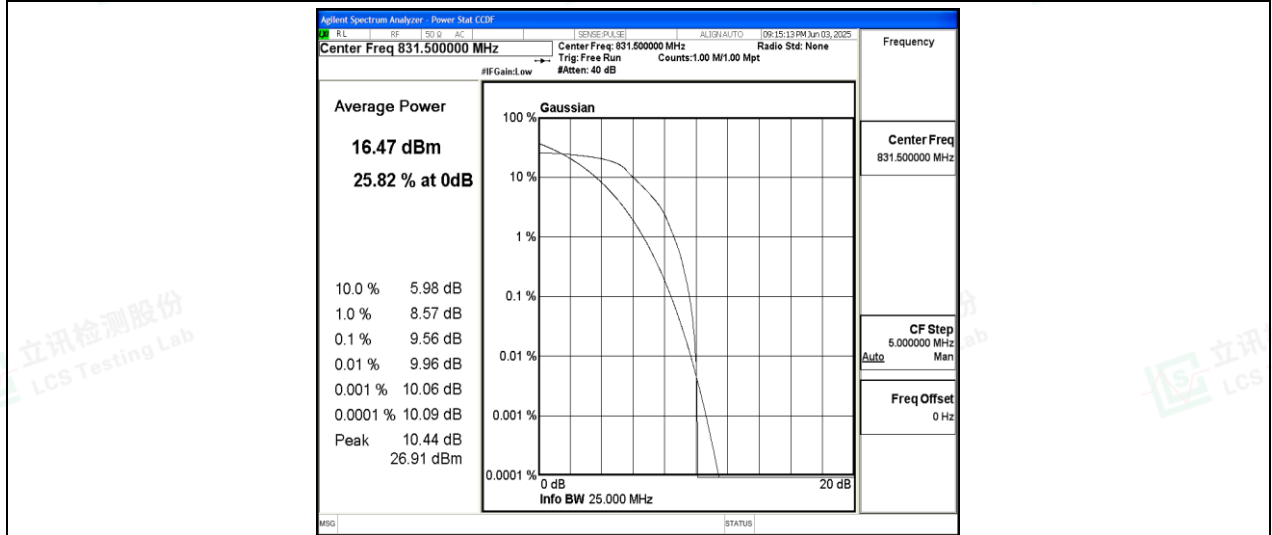
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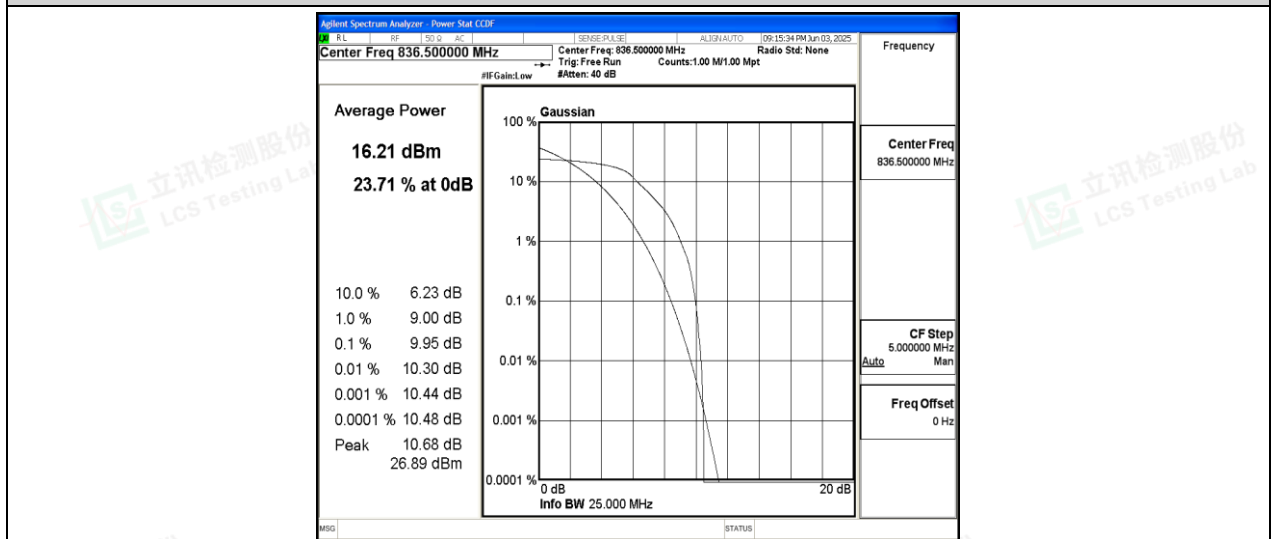
Scan code to check authenticity



Band26-15MHz-QPSK-26965-6-0-High-8.75-<=13-PASS



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Band26-15MHz-16QAM-26915-6-0-Low-9.95-<=13-PASS

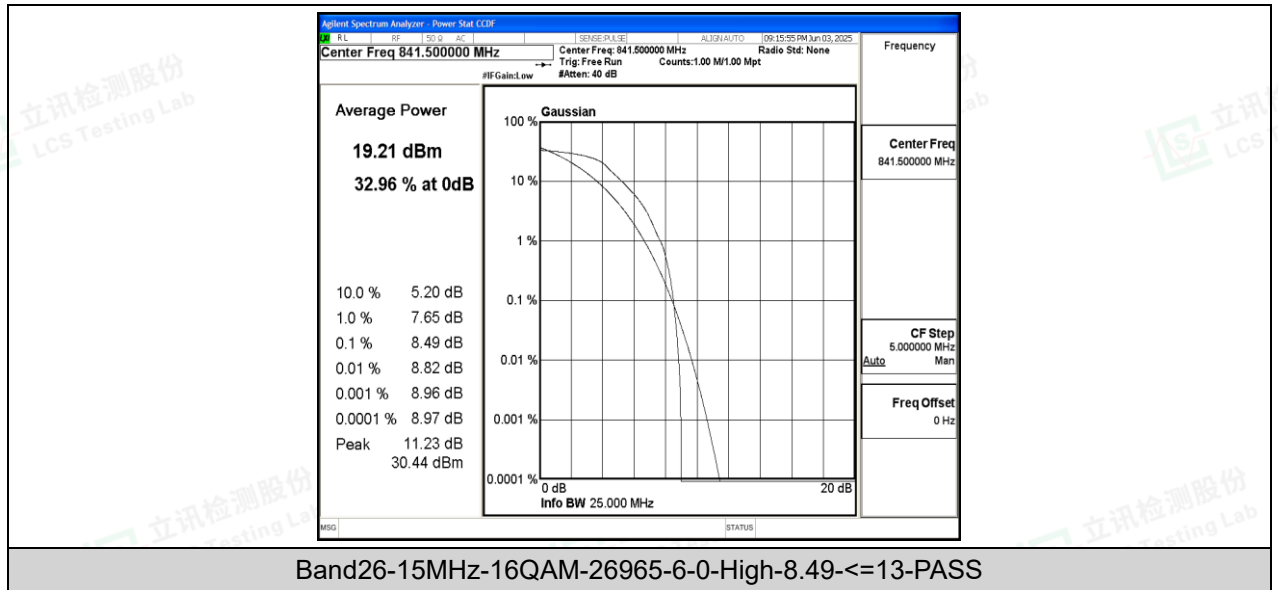


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J.3 26dB Bandwidth and Occupied Bandwidth for M1

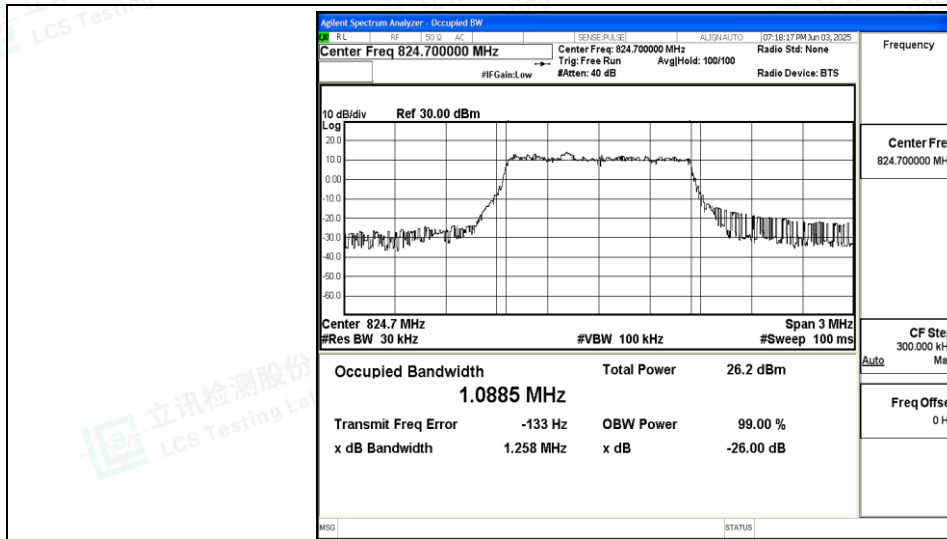
Test Result

Band	Bandwidth	Modulation	Channel	RB Size	RB Start	NB Index	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band26	1.4MHz	26797	QPSK	6	0	Low	1.0885	1.258	PASS
Band26	1.4MHz	26915	QPSK	6	0	Low	1.0835	1.257	PASS
Band26	1.4MHz	27033	QPSK	6	0	High	1.1013	1.298	PASS
Band26	1.4MHz	26797	16QAM	6	0	Low	1.0843	1.270	PASS
Band26	1.4MHz	26915	16QAM	6	0	Low	1.0888	1.262	PASS
Band26	1.4MHz	27033	16QAM	6	0	High	1.0972	1.280	PASS
Band26	3MHz	26805	QPSK	6	0	Low	1.1130	1.332	PASS
Band26	3MHz	26915	QPSK	6	0	Low	1.1054	1.326	PASS
Band26	3MHz	27025	QPSK	6	0	High	1.1180	1.307	PASS
Band26	3MHz	26805	16QAM	6	0	Low	1.1040	1.361	PASS
Band26	3MHz	26915	16QAM	6	0	Low	1.1097	1.328	PASS
Band26	3MHz	27025	16QAM	6	0	High	1.1133	1.344	PASS
Band26	5MHz	26815	QPSK	6	0	Low	1.1824	1.523	PASS
Band26	5MHz	26915	QPSK	6	0	Low	1.1688	1.609	PASS
Band26	5MHz	27015	QPSK	6	0	High	1.1807	1.407	PASS
Band26	5MHz	26815	16QAM	6	0	Low	1.1734	1.533	PASS
Band26	5MHz	26915	16QAM	6	0	Low	1.1635	1.618	PASS
Band26	5MHz	27015	16QAM	6	0	High	1.1868	1.463	PASS
Band26	10MHz	26840	QPSK	6	0	Low	1.3349	2.135	PASS
Band26	10MHz	26915	QPSK	6	0	Low	1.3346	2.098	PASS
Band26	10MHz	26990	QPSK	6	0	High	1.3366	1.847	PASS
Band26	10MHz	26840	16QAM	6	0	Low	1.3395	2.105	PASS
Band26	10MHz	26915	16QAM	6	0	Low	1.3406	2.166	PASS
Band26	10MHz	26990	16QAM	6	0	High	1.3330	1.769	PASS
Band26	15MHz	26865	QPSK	6	0	Low	1.5426	2.774	PASS
Band26	15MHz	26915	QPSK	6	0	Low	1.5254	3.217	PASS
Band26	15MHz	26965	QPSK	6	0	High	1.5385	2.875	PASS
Band26	15MHz	26865	16QAM	6	0	Low	1.5173	2.321	PASS
Band26	15MHz	26915	16QAM	6	0	Low	1.5478	3.067	PASS
Band26	15MHz	26965	16QAM	6	0	High	1.5380	2.536	PASS

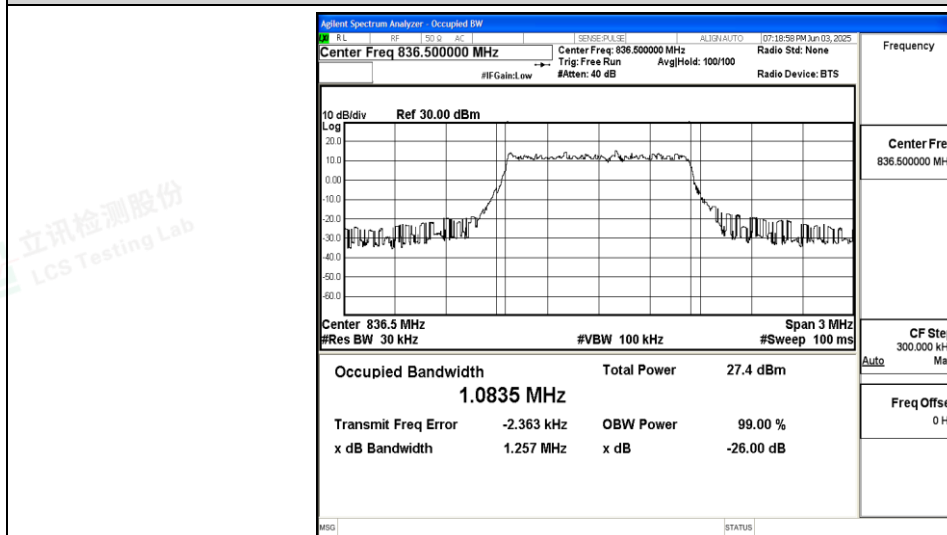




Test Graphs



Band26-1.4MHz-QPSK-26797-6-0-Low-1.0885-1.258-PASS



Band26-1.4MHz-QPSK-26915-6-0-Low-1.0835-1.257-PASS

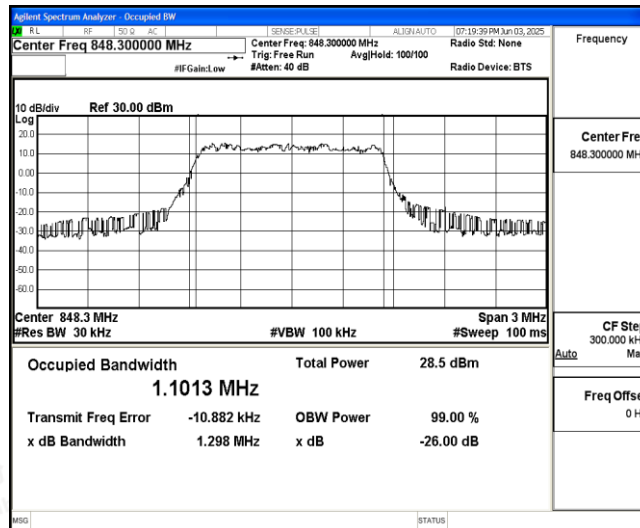


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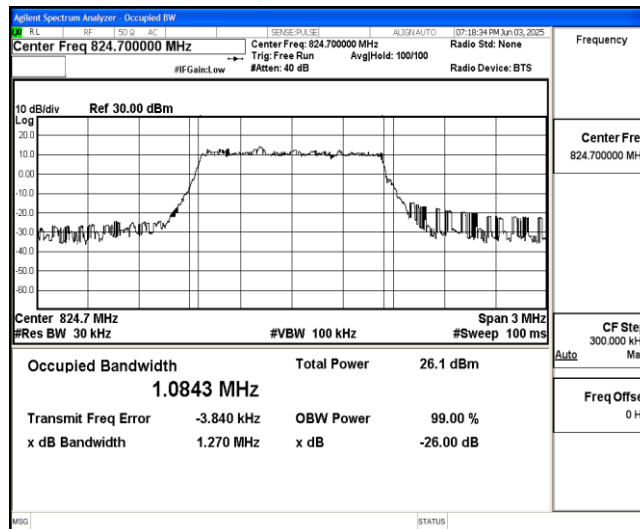
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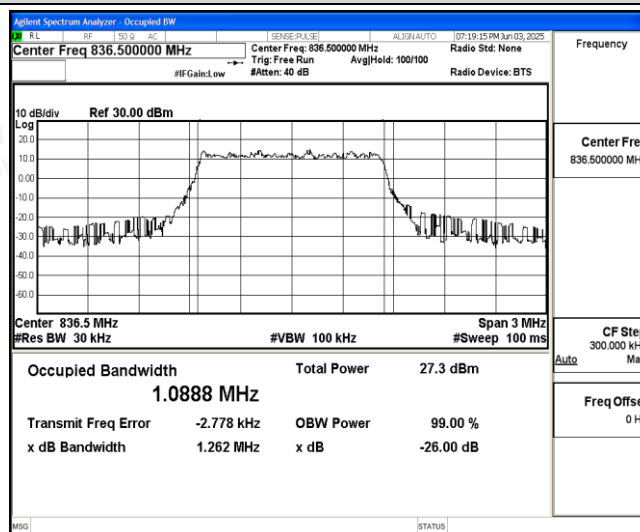
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Band26-1.4MHz-QPSK-27033-6-0-High-1.1013-1.298-PASS



Band26-1.4MHz-16QAM-26797-6-0-Low-1.0843-1.270-PASS



Band26-1.4MHz-16QAM-26915-6-0-Low-1.0888-1.262-PASS

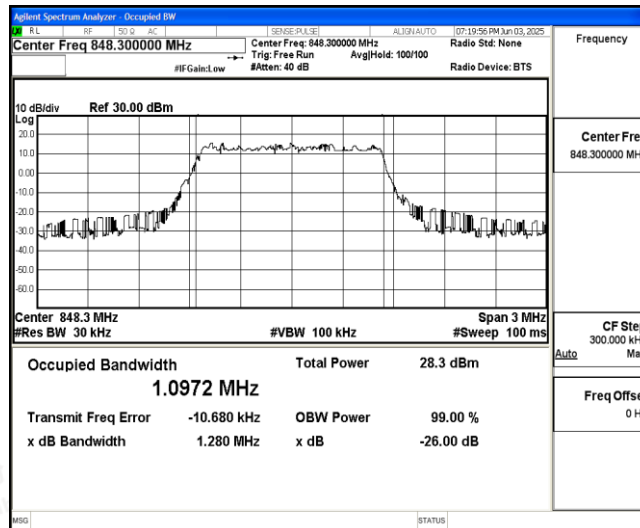


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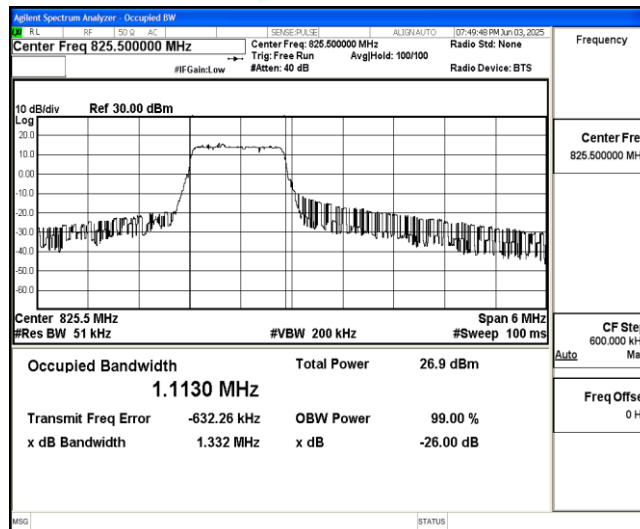
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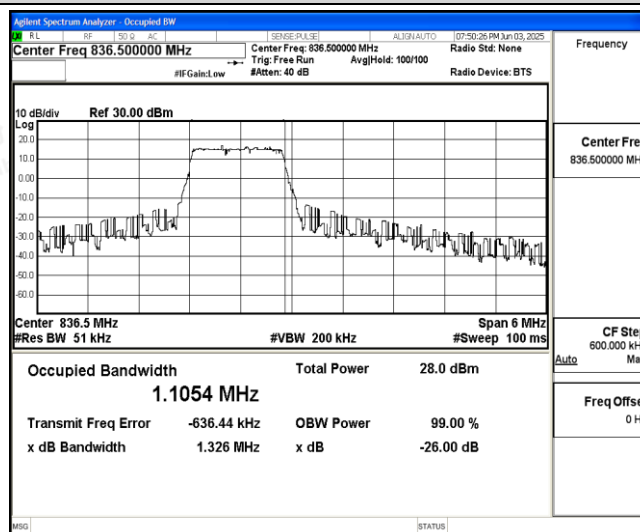
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Band26-1.4MHz-16QAM-27033-6-0-High-1.0972-1.280-PASS



Band26-3MHz-QPSK-26805-6-0-Low-1.1130-1.332-PASS



Band26-3MHz-QPSK-26915-6-0-Low-1.1054-1.326-PASS

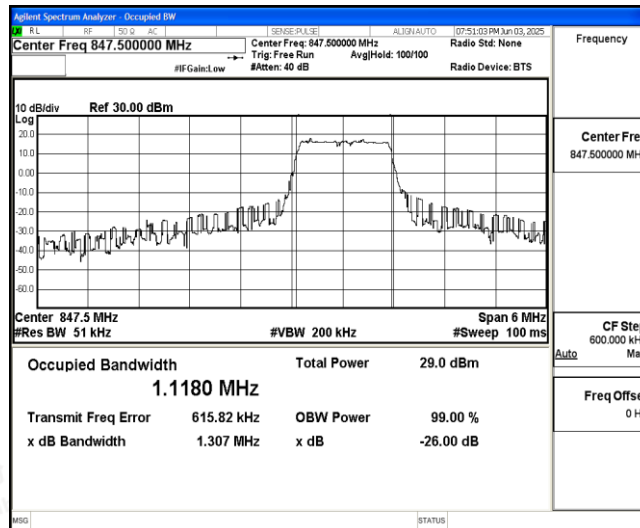


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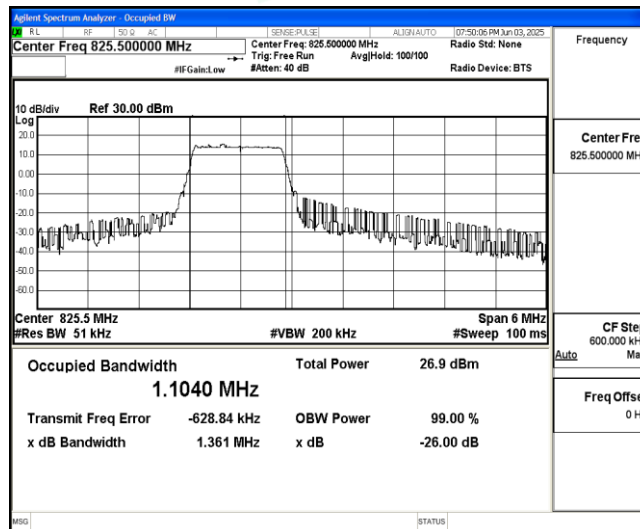
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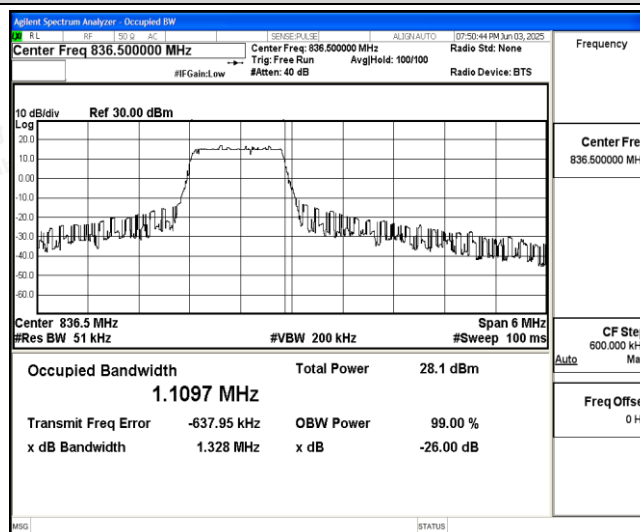
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Band26-3MHz-QPSK-27025-6-0-High-1.1180-1.307-PASS



Band26-3MHz-16QAM-26805-6-0-Low-1.1040-1.361-PASS



Band26-3MHz-16QAM-26915-6-0-Low-1.1097-1.328-PASS

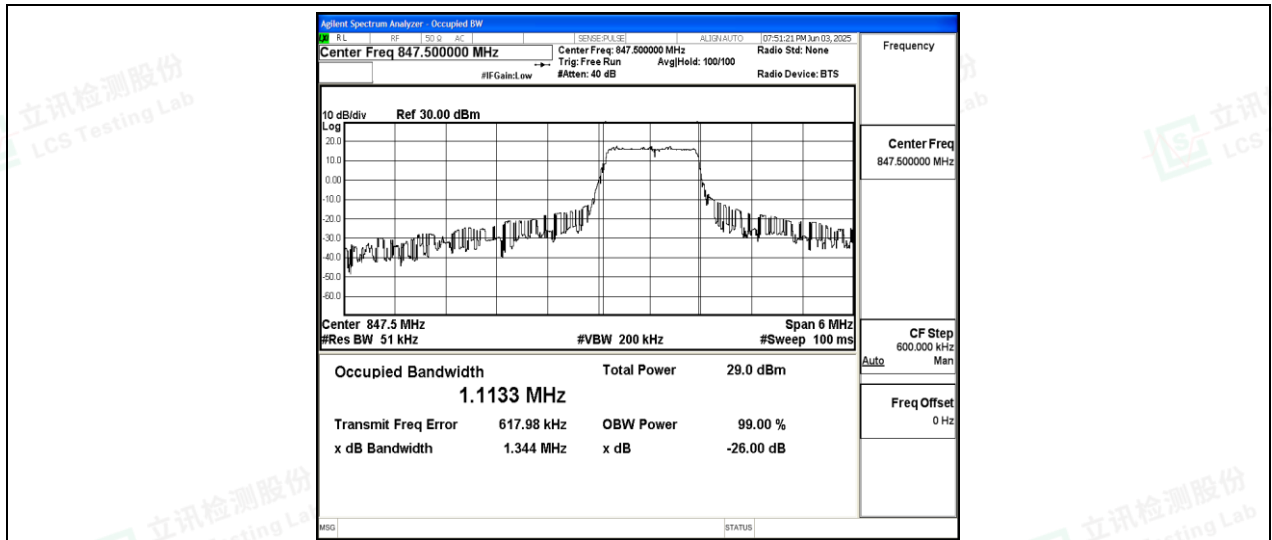


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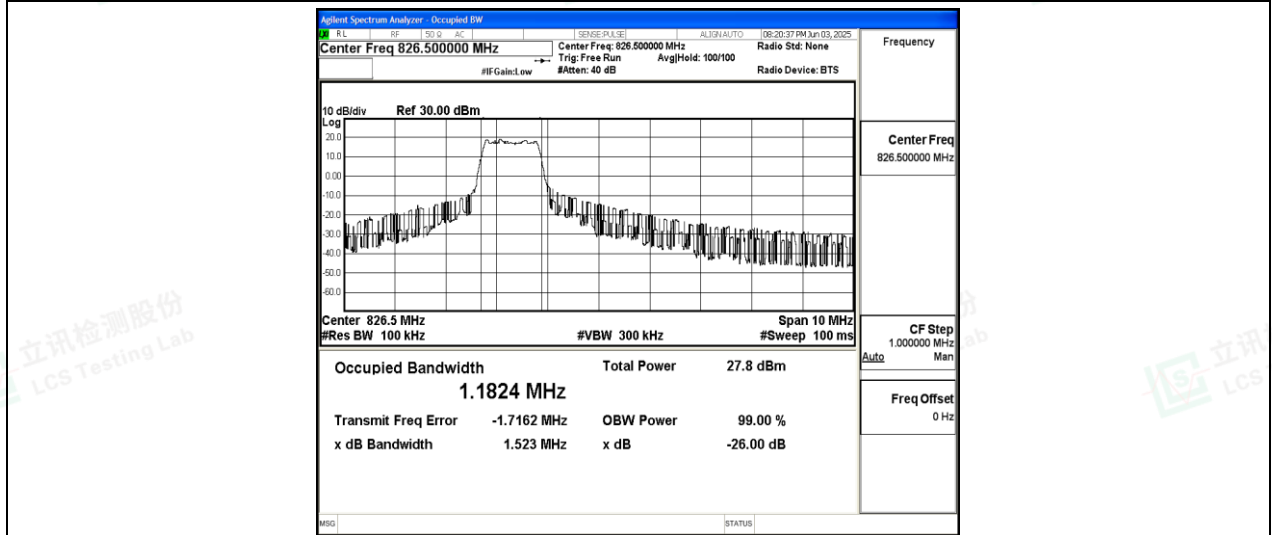
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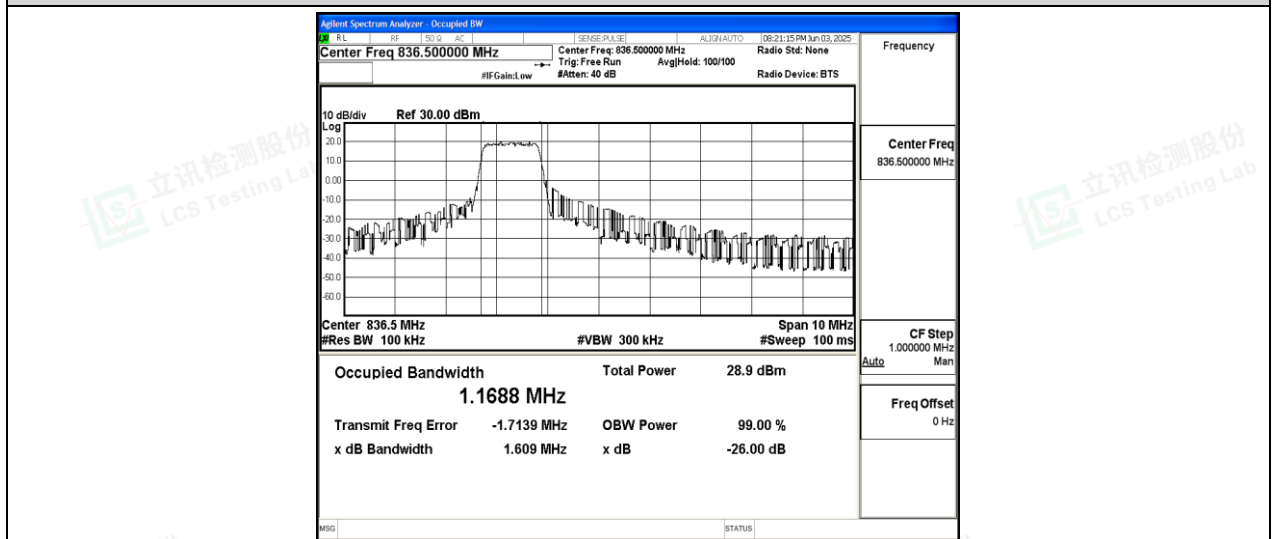
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Band26-3MHz-16QAM-27025-6-0-High-1.1133-1.344-PASS



Band26-5MHz-QPSK-26815-6-0-Low-1.1824-1.523-PASS



Band26-5MHz-QPSK-26915-6-0-Low-1.1688-1.609-PASS

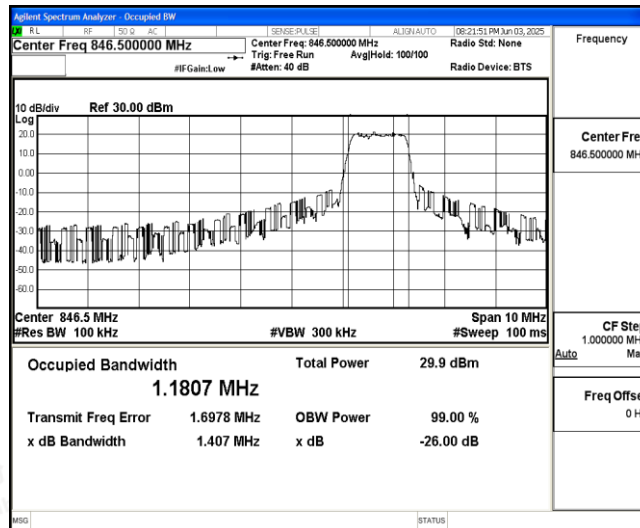


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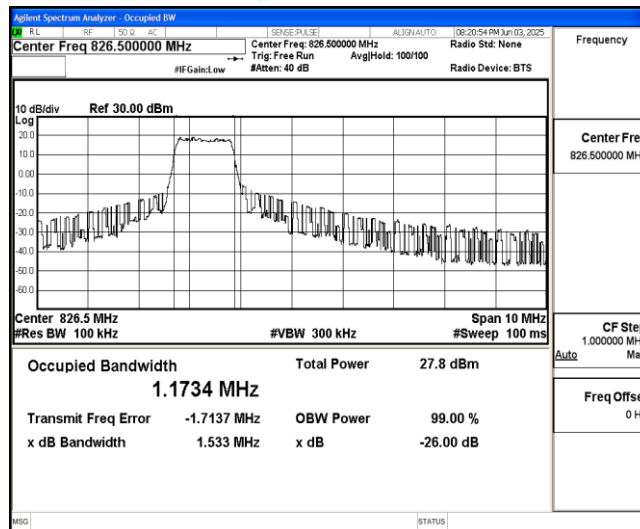
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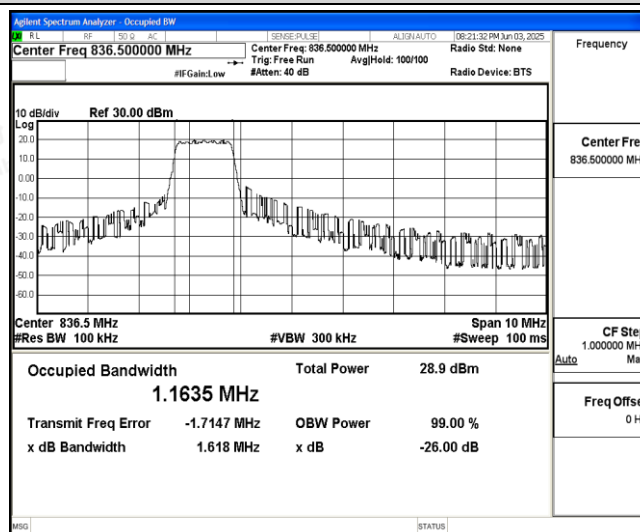
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Band26-5MHz-QPSK-27015-6-0-High-1.1807-1.407-PASS



Band26-5MHz-16QAM-26815-6-0-Low-1.1734-1.533-PASS



Band26-5MHz-16QAM-26915-6-0-Low-1.1635-1.618-PASS

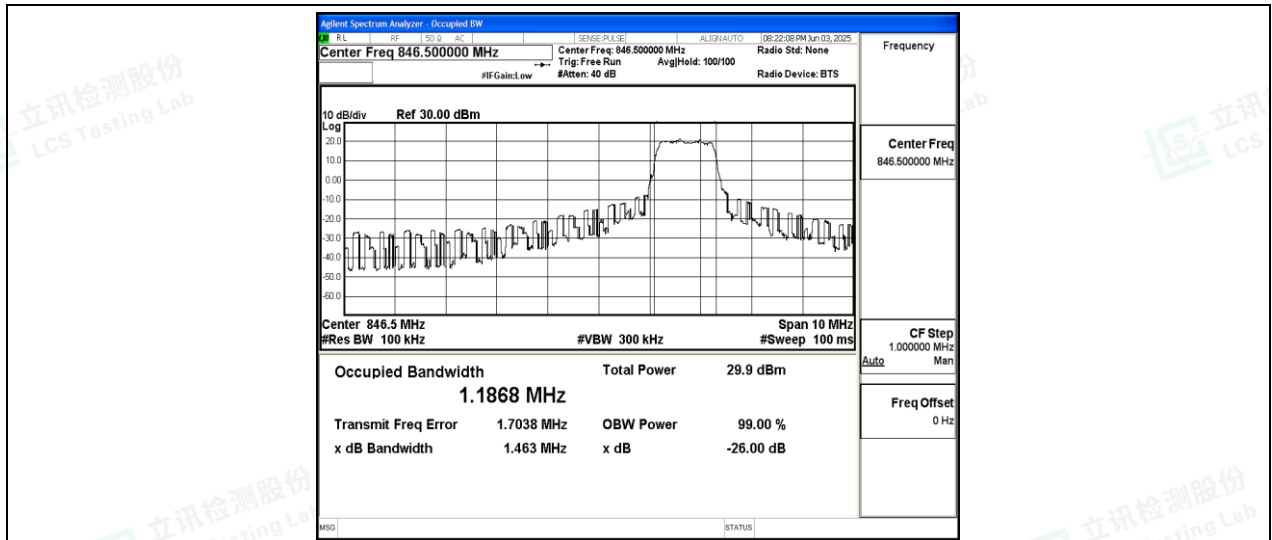


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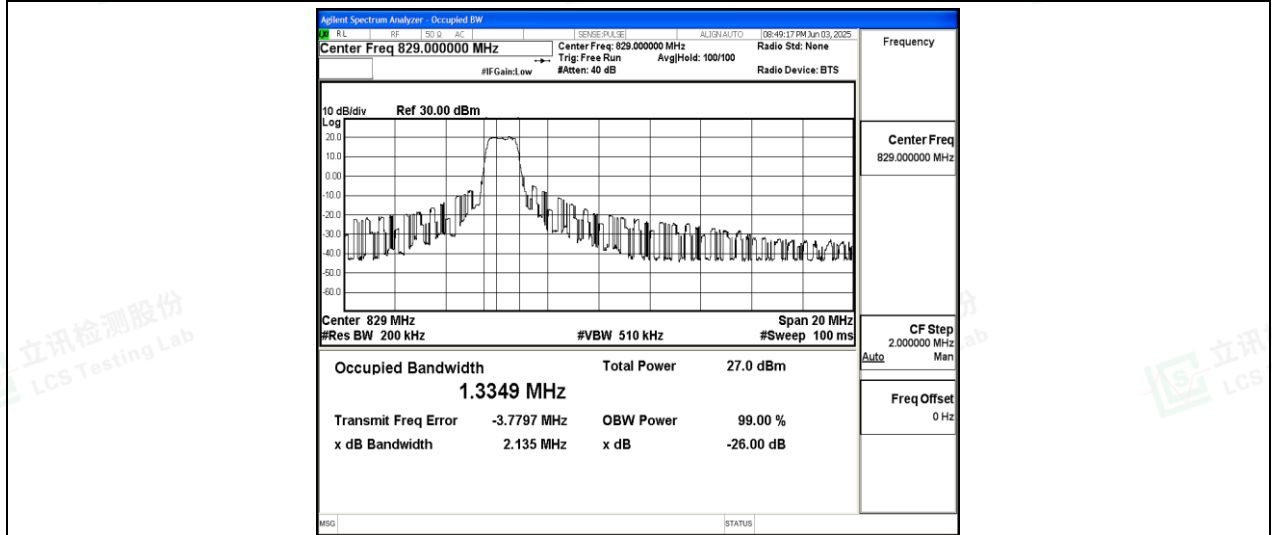
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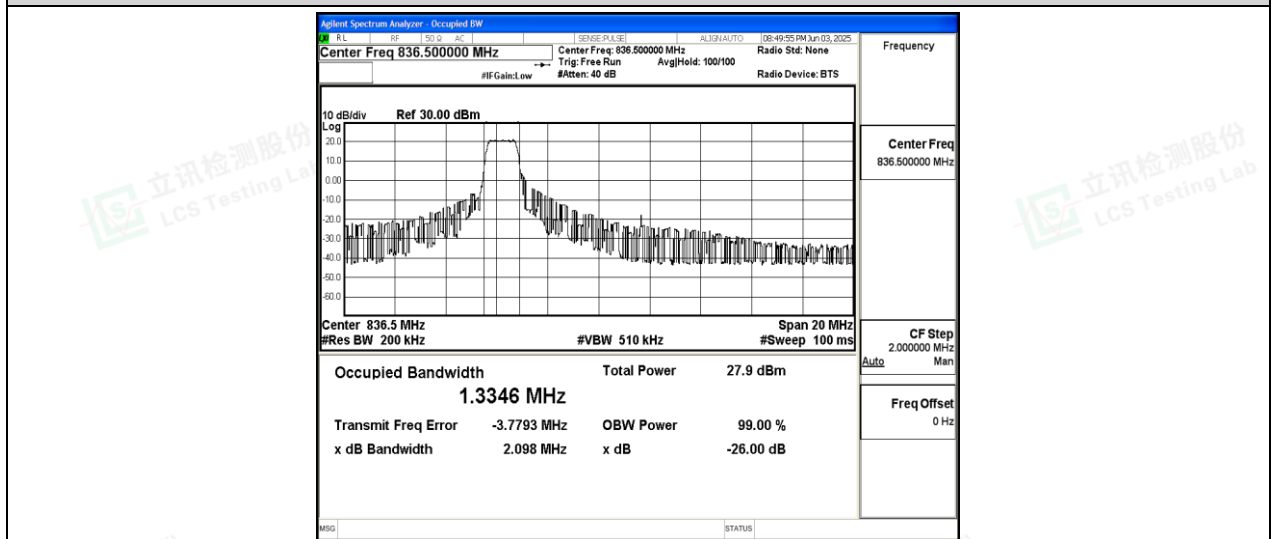
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Band26-5MHz-16QAM-27015-6-0-High-1.1868-1.463-PASS



Band26-10MHz-QPSK-26840-6-0-Low-1.3349-2.135-PASS



Band26-10MHz-QPSK-26915-6-0-Low-1.3346-2.098-PASS

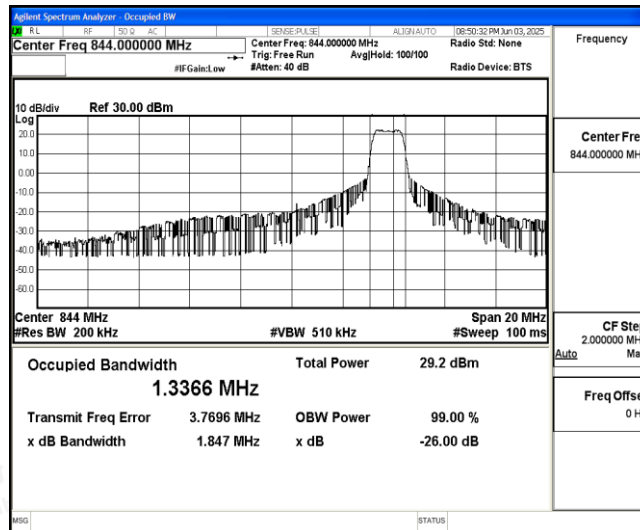


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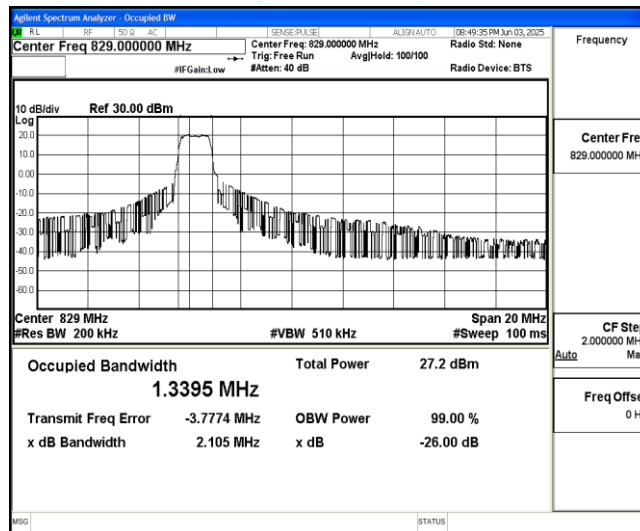
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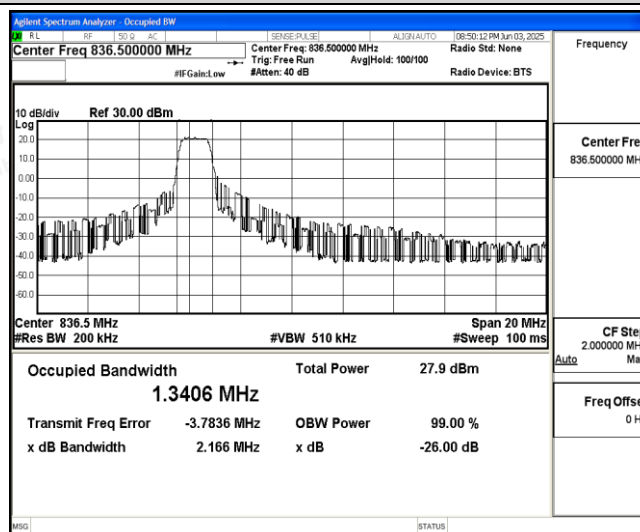
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Band26-10MHz-QPSK-26990-6-0-High-1.3366-1.847-PASS



Band26-10MHz-16QAM-26840-6-0-Low-1.3395-2.105-PASS



Band26-10MHz-16QAM-26915-6-0-Low-1.3406-2.166-PASS

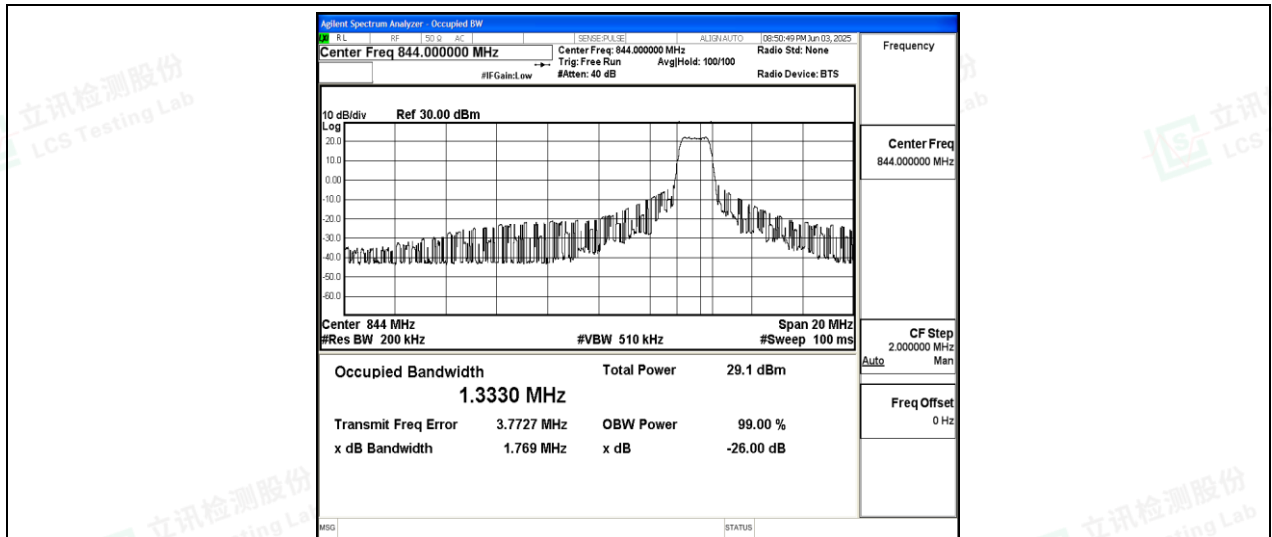


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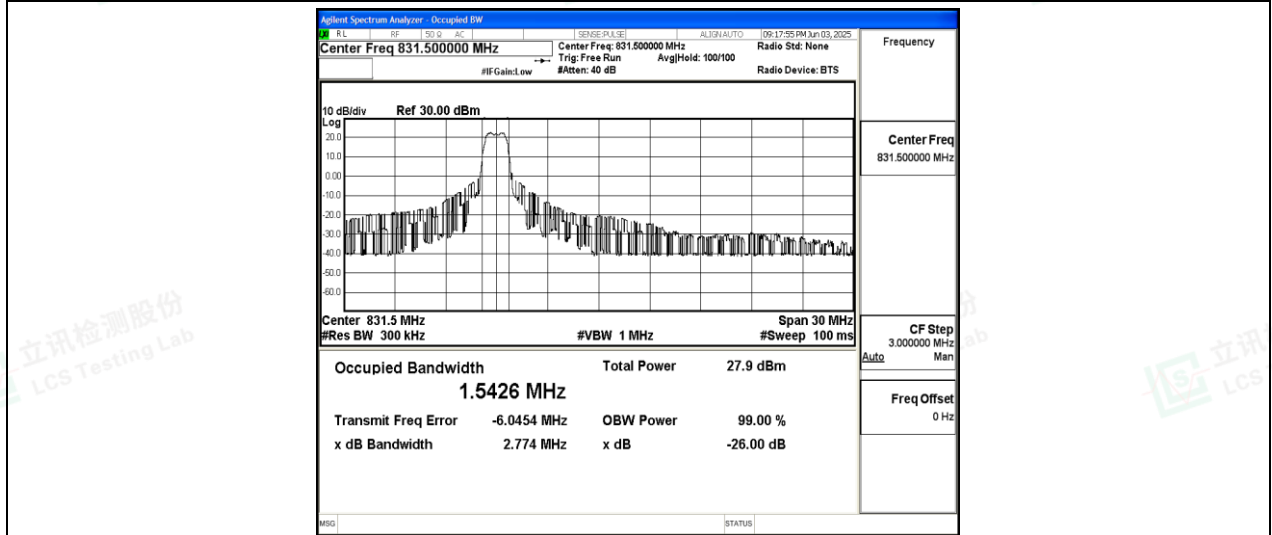
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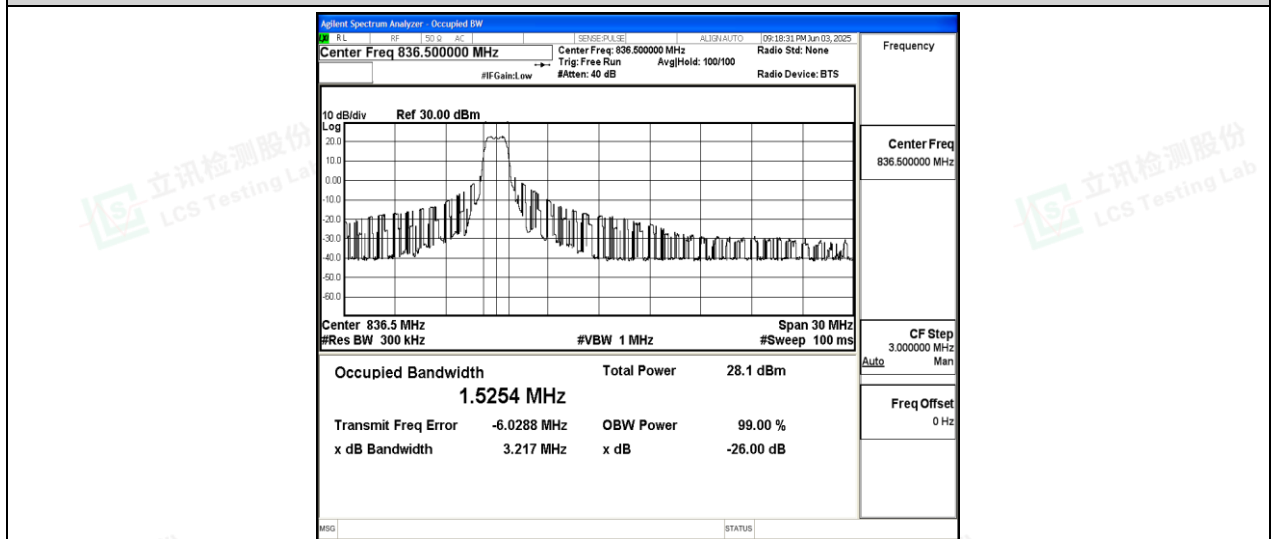
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Band26-10MHz-16QAM-26990-6-0-High-1.3330-1.769-PASS



Band26-15MHz-QPSK-26865-6-0-Low-1.5426-2.774-PASS



Band26-15MHz-QPSK-26915-6-0-Low-1.5254-3.217-PASS

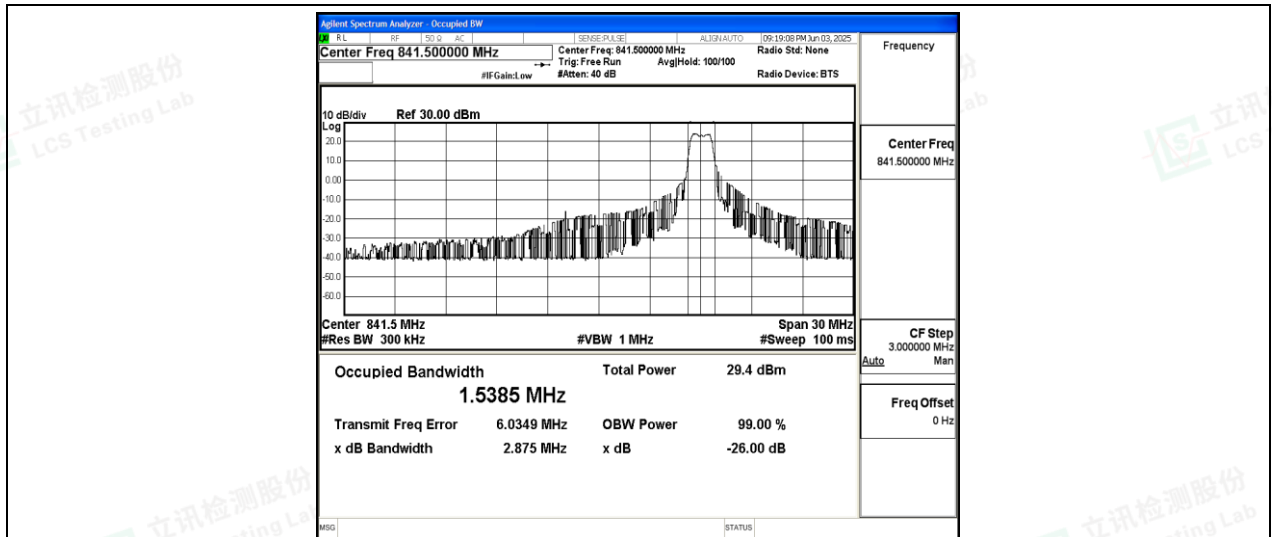


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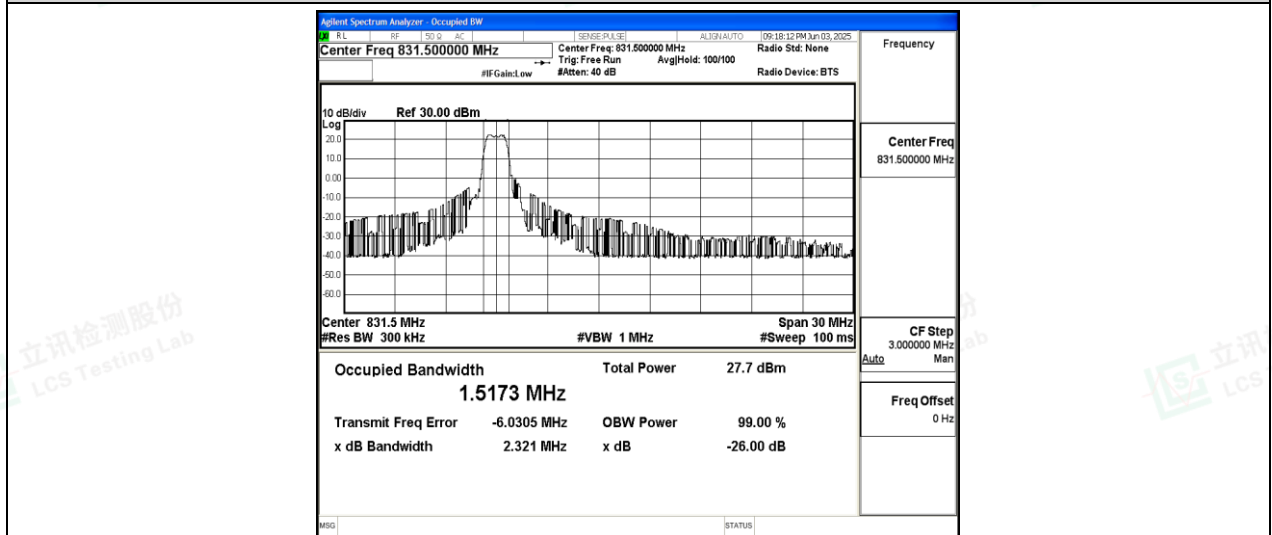
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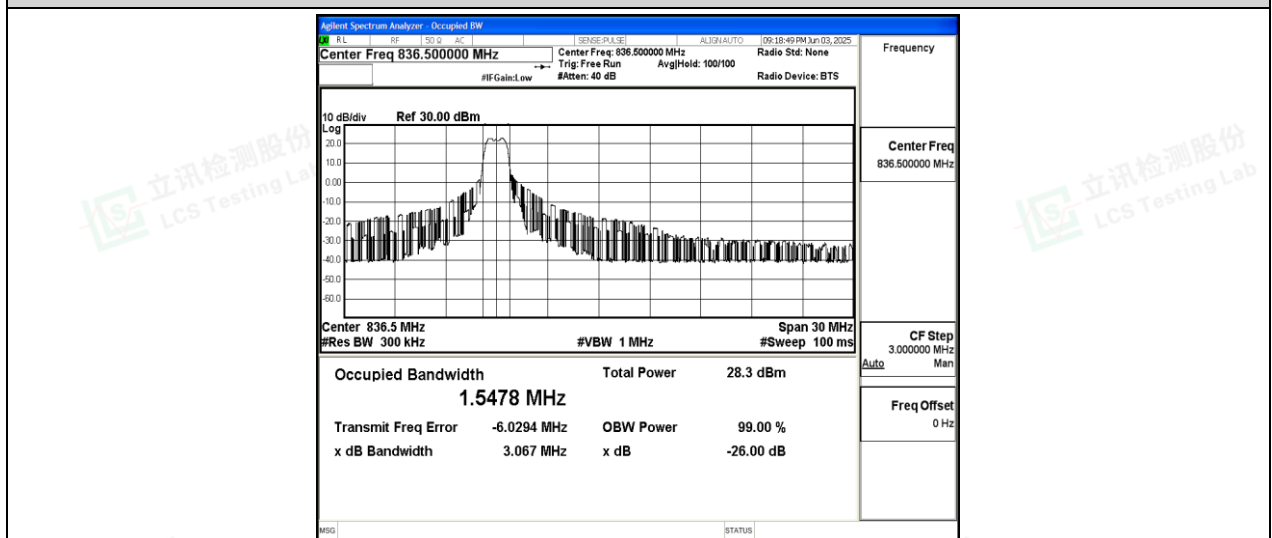
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Band26-15MHz-QPSK-26965-6-0-High-1.5385-2.875-PASS



Band26-15MHz-16QAM-26865-6-0-Low-1.5173-2.321-PASS



Band26-15MHz-16QAM-26915-6-0-Low-1.5478-3.067-PASS

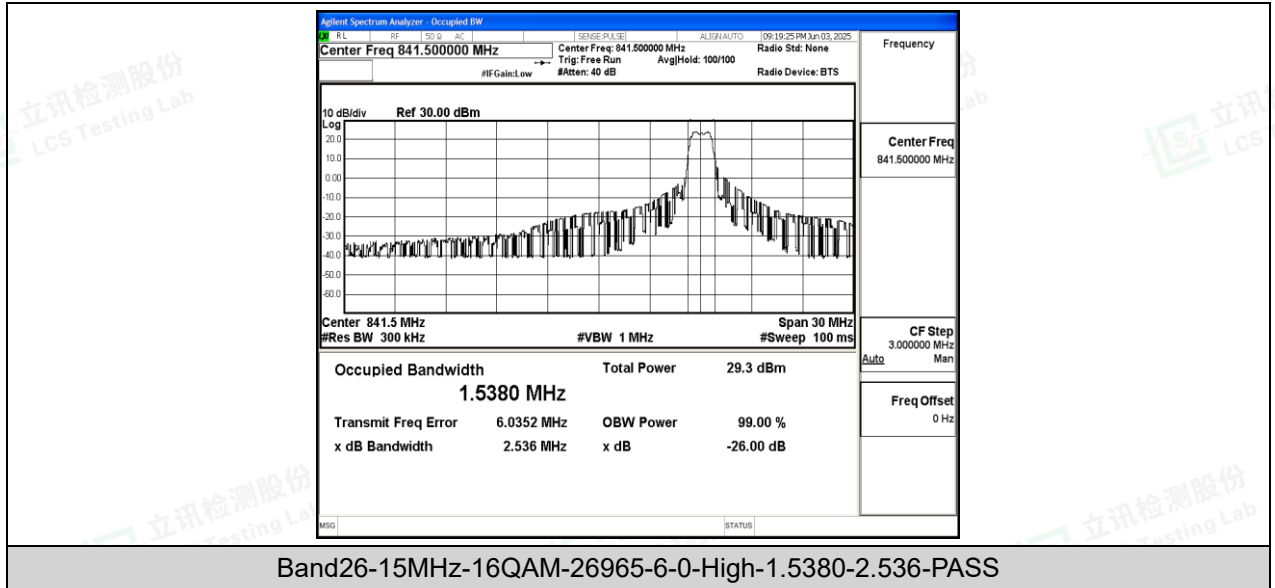


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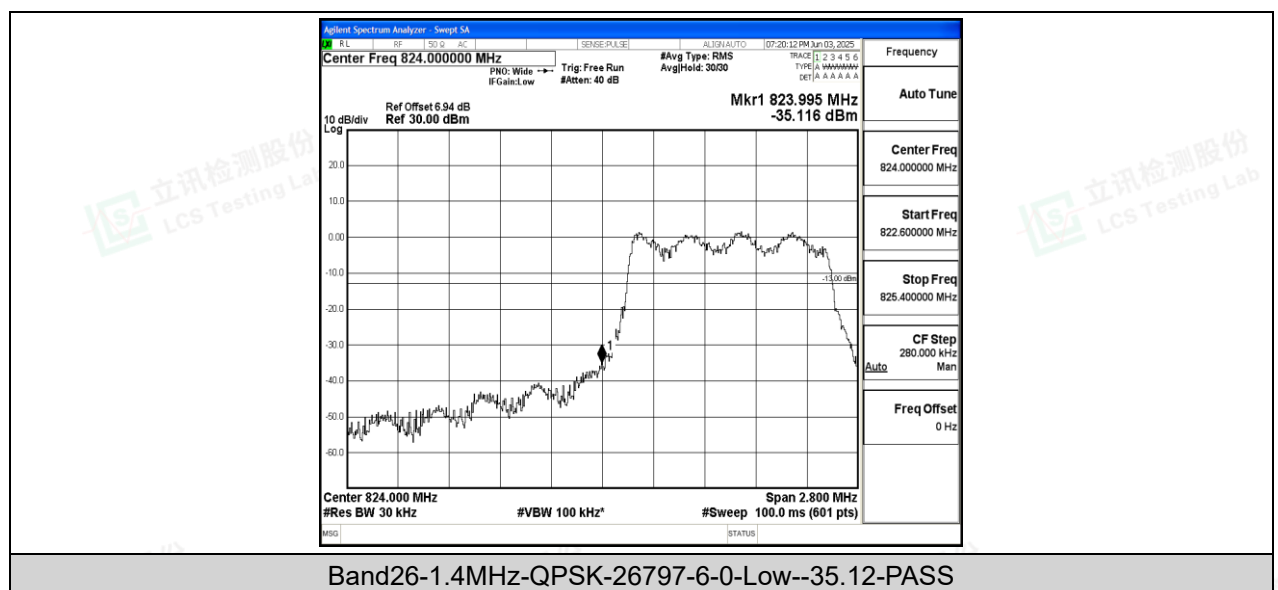


J.4 Band Edge for M1

Test Result

Band	Bandwidth	Modulation	Channel	RB Size	RB Start	NB Index	Result(dBm)	Verdict
Band26	1.4MHz	26797	QPSK	6	0	Low	-35.12	PASS
Band26	1.4MHz	27033	QPSK	6	0	High	-32.03	PASS
Band26	1.4MHz	26797	16QAM	6	0	Low	-34.54	PASS
Band26	1.4MHz	27033	16QAM	6	0	High	-33.44	PASS
Band26	3MHz	26805	QPSK	6	0	Low	-37.48	PASS
Band26	3MHz	27025	QPSK	6	0	High	-37.96	PASS
Band26	3MHz	26805	16QAM	6	0	Low	-39.73	PASS
Band26	3MHz	27025	16QAM	6	0	High	-37.19	PASS
Band26	5MHz	26815	QPSK	6	0	Low	-29.62	PASS
Band26	5MHz	27015	QPSK	6	0	High	-31.76	PASS
Band26	5MHz	26815	16QAM	6	0	Low	-30.10	PASS
Band26	5MHz	27015	16QAM	6	0	High	-30.72	PASS
Band26	10MHz	26840	QPSK	6	0	Low	-33.65	PASS
Band26	10MHz	26990	QPSK	6	0	High	-30.00	PASS
Band26	10MHz	26840	16QAM	6	0	Low	-33.31	PASS
Band26	10MHz	26990	16QAM	6	0	High	-31.49	PASS
Band26	15MHz	26965	QPSK	6	0	High	-29.64	PASS
Band26	15MHz	26965	16QAM	6	0	High	-31.76	PASS

Test Graphs

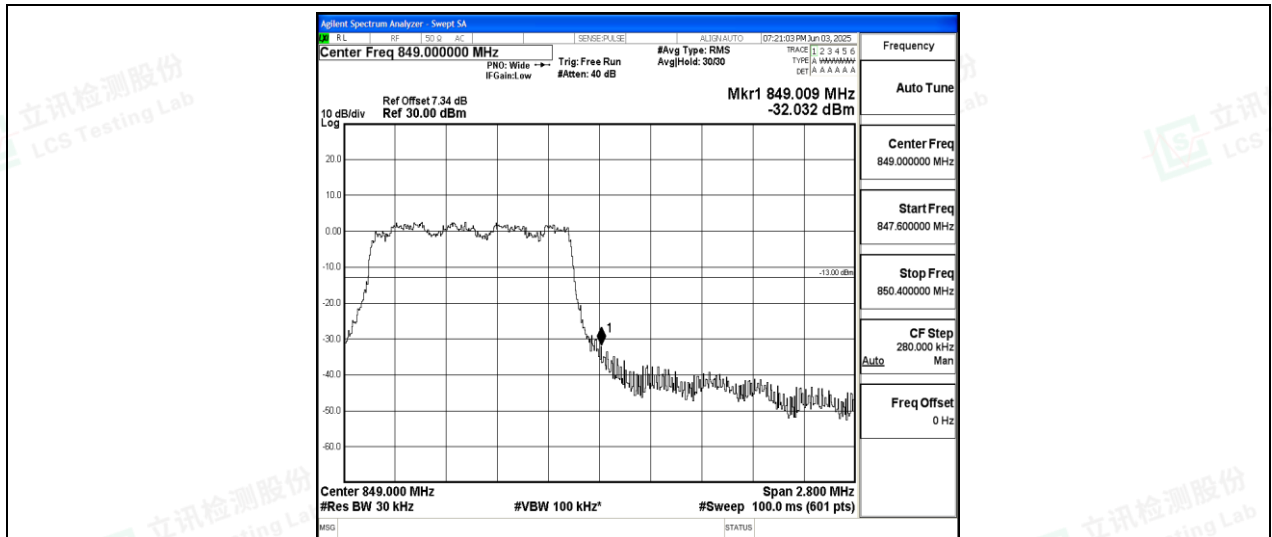


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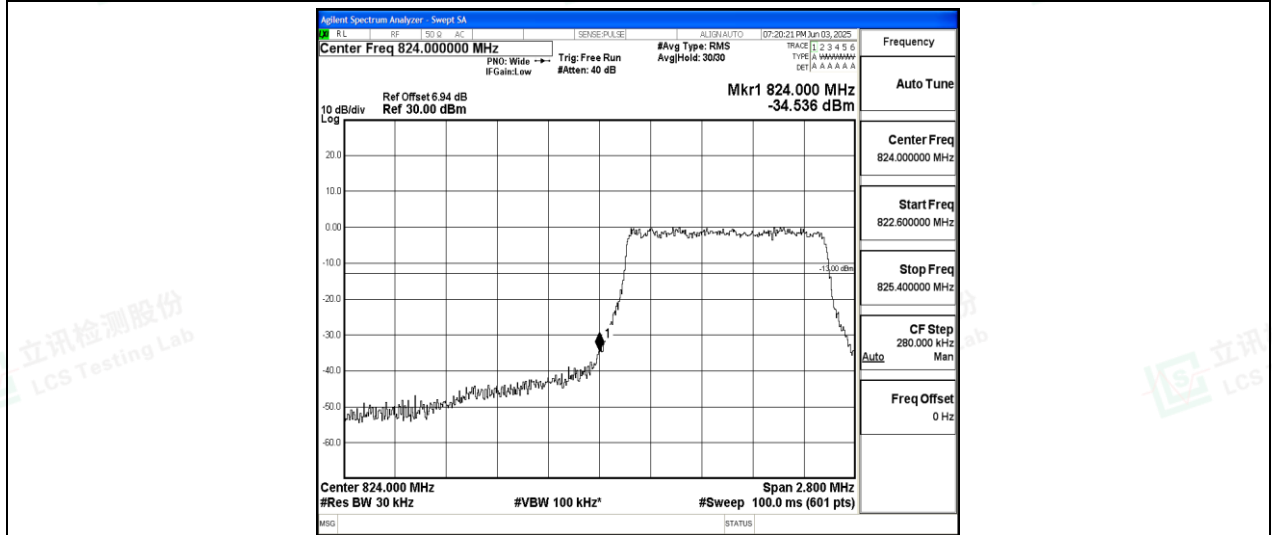
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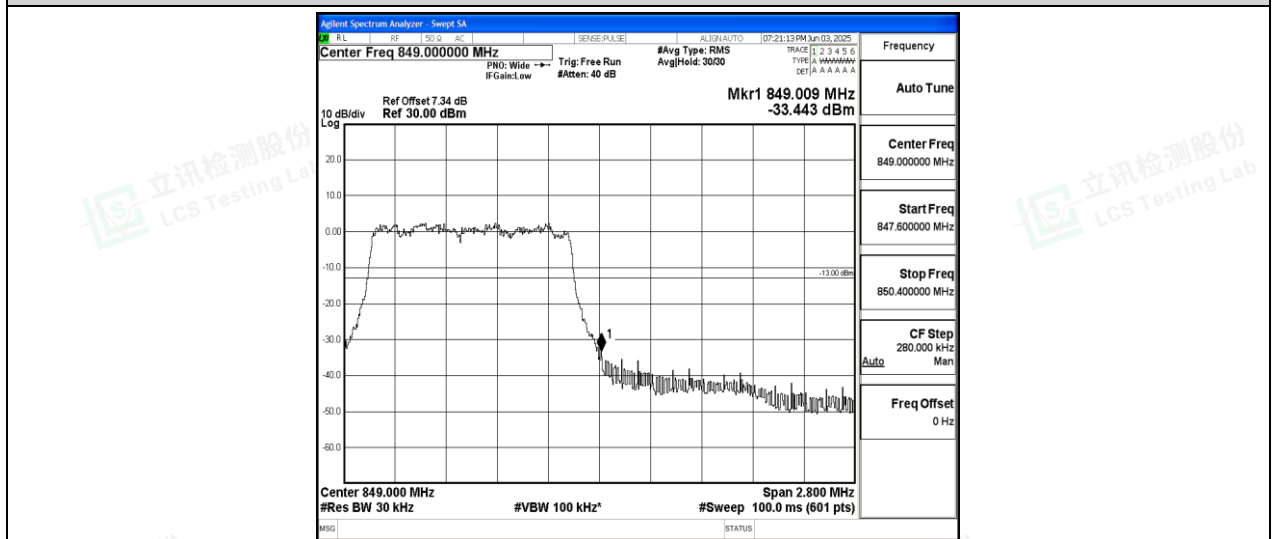
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Band26-1.4MHz-QPSK-27033-6-0-High--32.03-PASS



Band26-1.4MHz-16QAM-26797-6-0-Low--34.54-PASS



Band26-1.4MHz-16QAM-27033-6-0-High--33.44-PASS

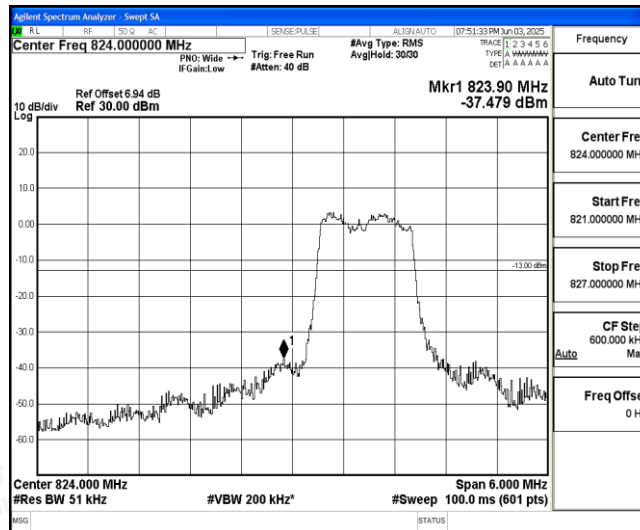


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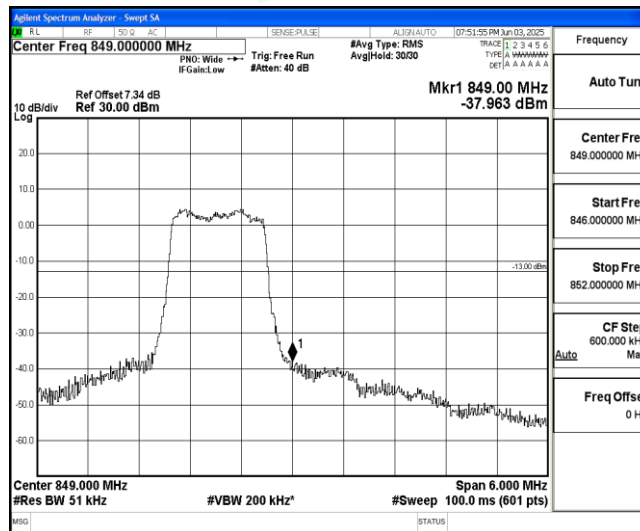
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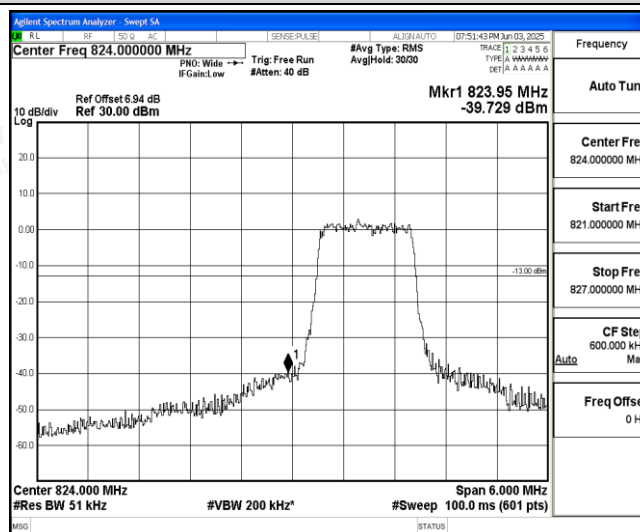
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Band26-3MHz-QPSK-26805-6-0-Low--37.48-PASS



Band26-3MHz-QPSK-27025-6-0-High--37.96-PASS



Band26-3MHz-16QAM-26805-6-0-Low--39.73-PASS

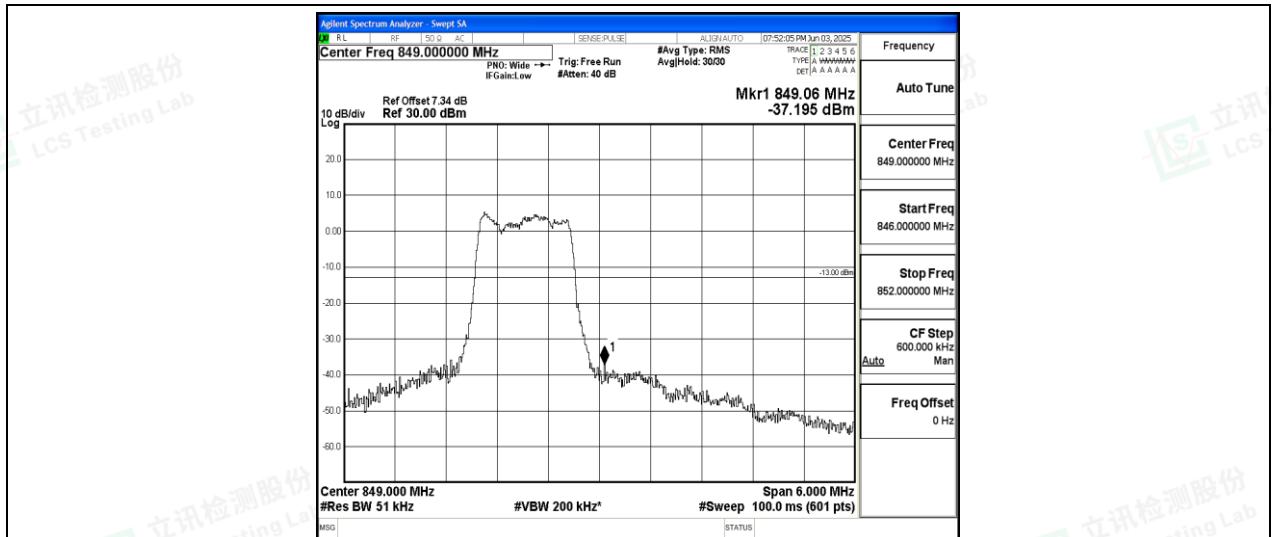


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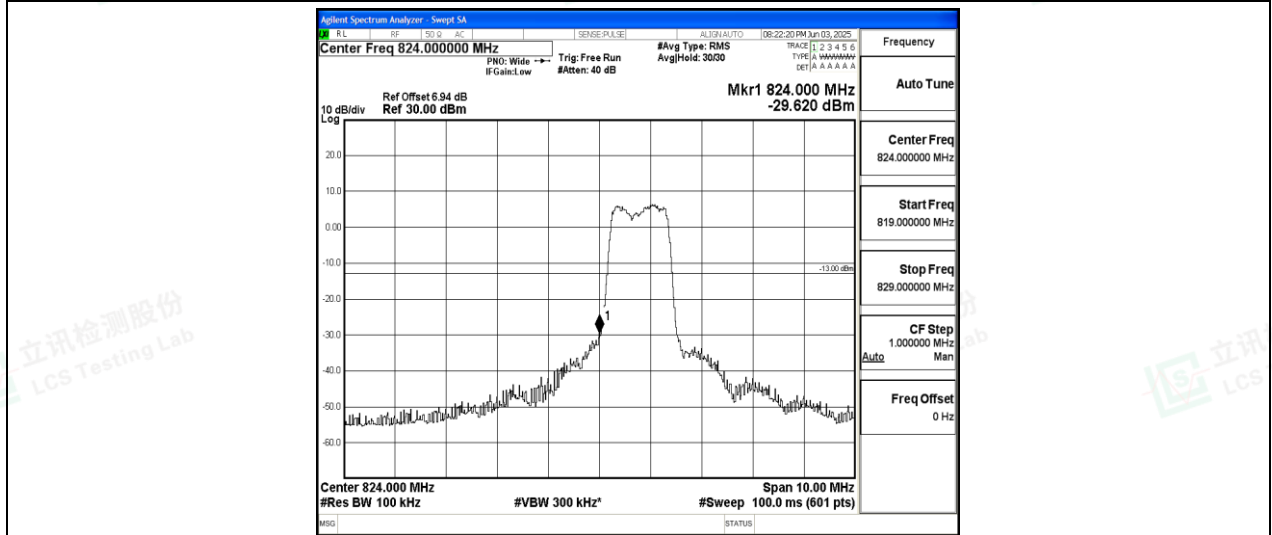
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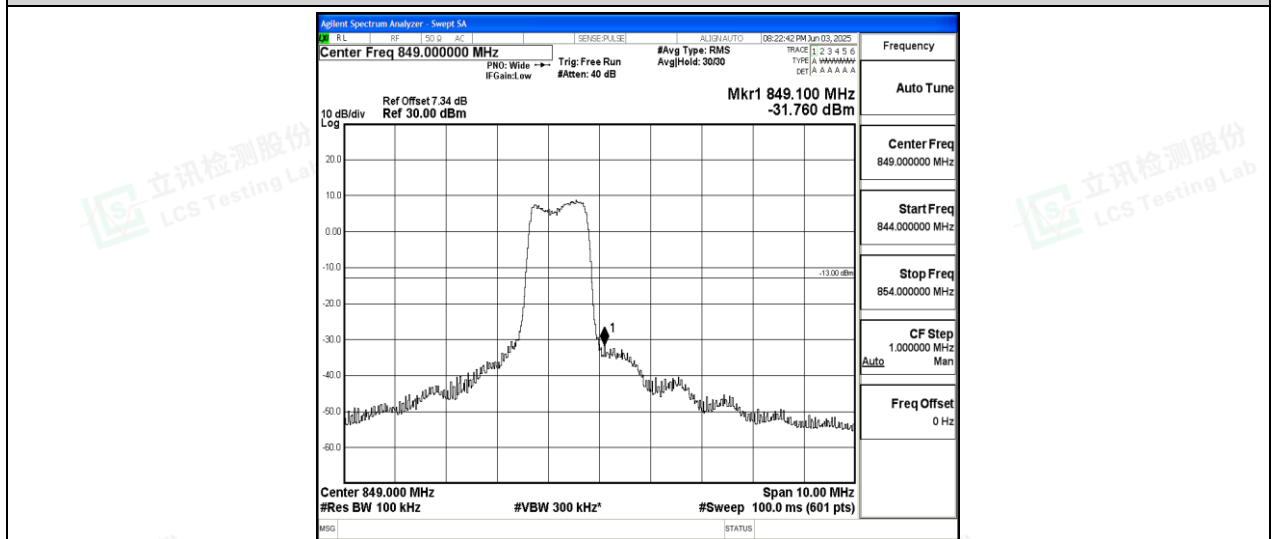
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Band26-3MHz-16QAM-27025-6-0-High--37.19-PASS



Band26-5MHz-QPSK-26815-6-0-Low--29.62-PASS



Band26-5MHz-QPSK-27015-6-0-High--31.76-PASS

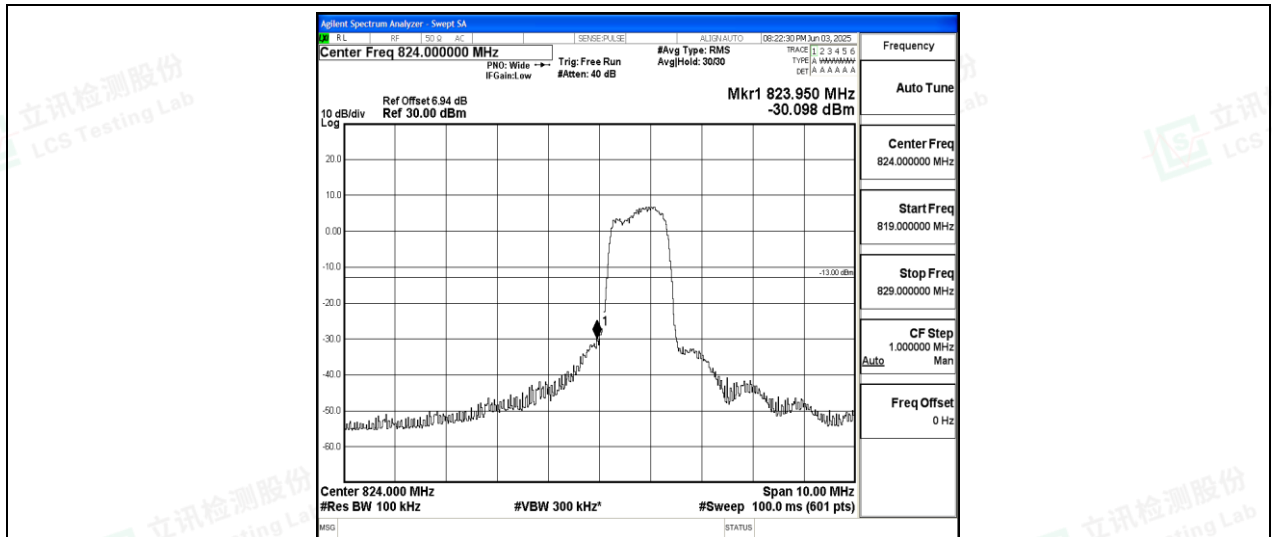


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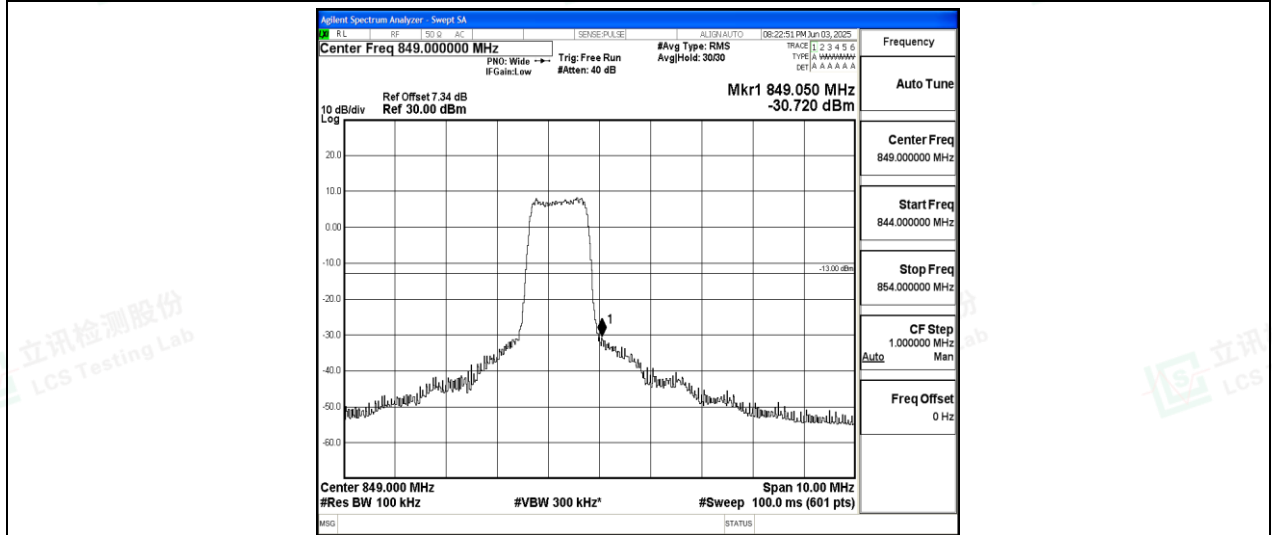
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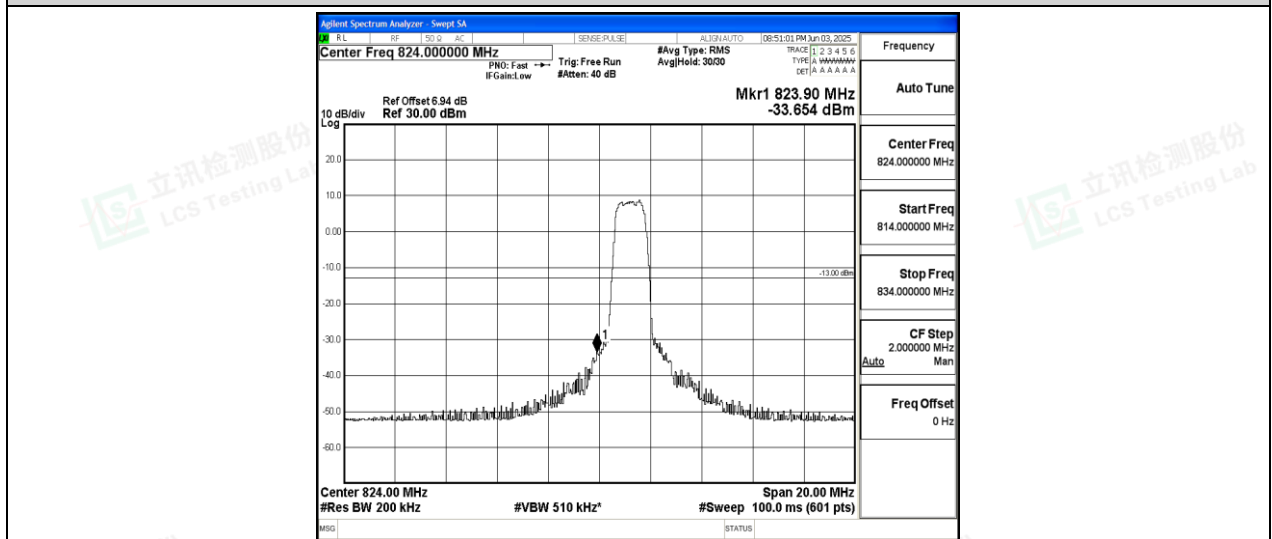
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Band26-5MHz-16QAM-26815-6-0-Low--30.10-PASS



Band26-5MHz-16QAM-27015-6-0-High--30.72-PASS



Band26-10MHz-QPSK-26840-6-0-Low--33.65-PASS

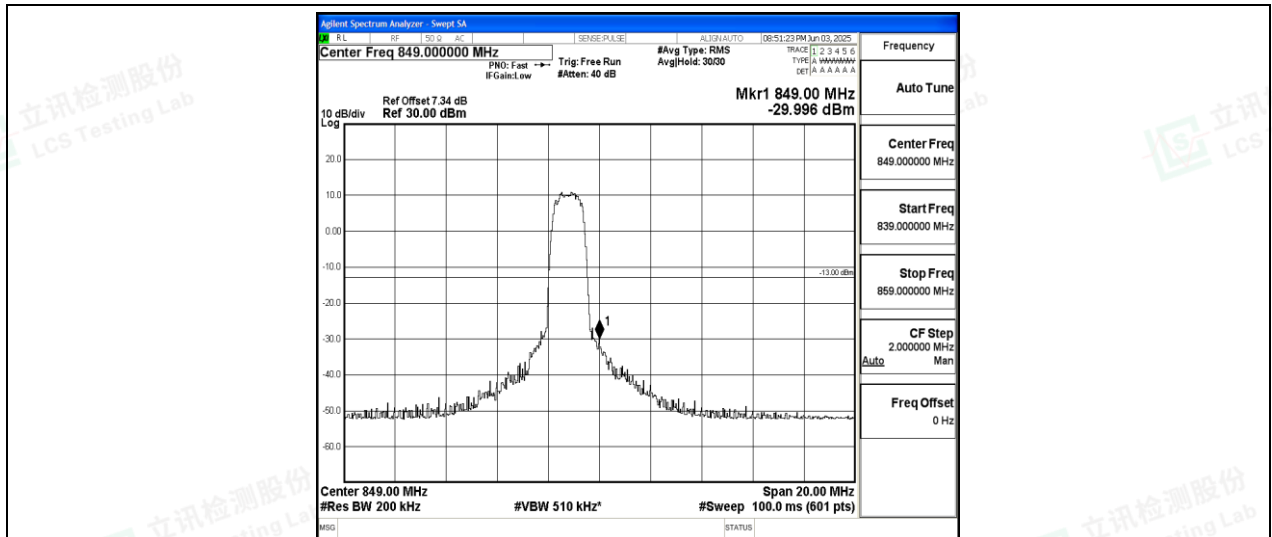


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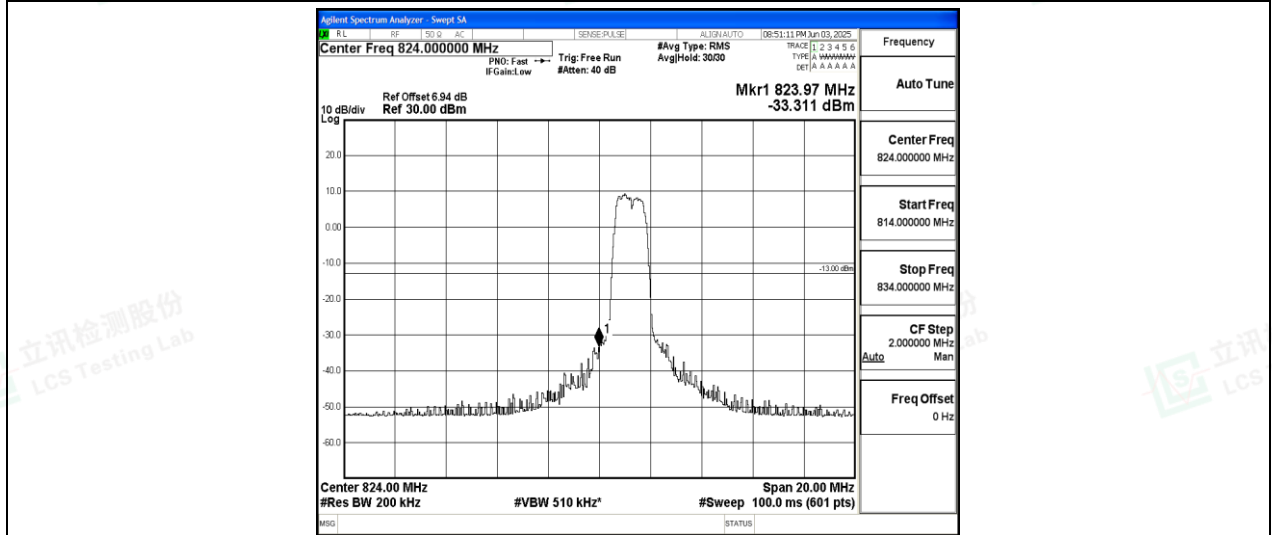
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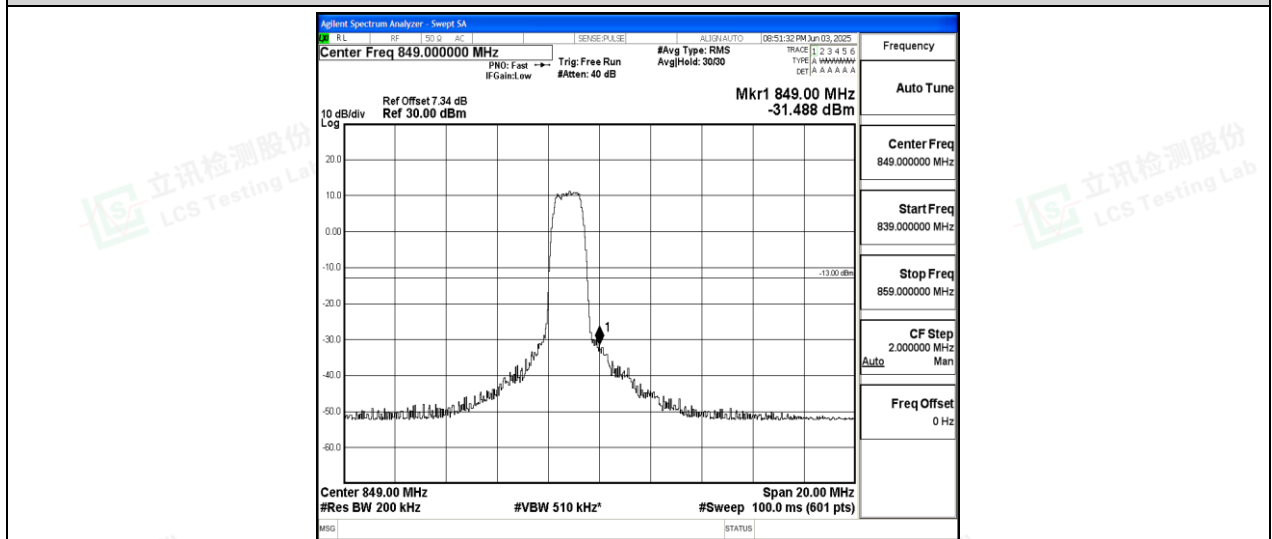
Scan code to check authenticity



Band26-10MHz-QPSK-26990-6-0-High--30.00-PASS



Band26-10MHz-16QAM-26840-6-0-Low--33.31-PASS



Band26-10MHz-16QAM-26990-6-0-High--31.49-PASS

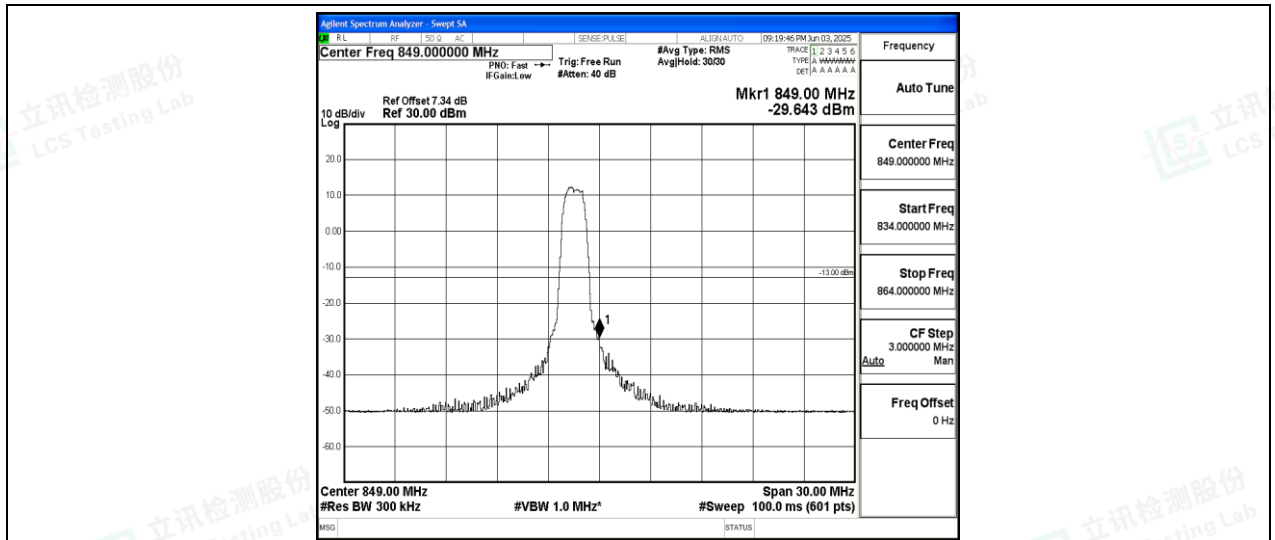


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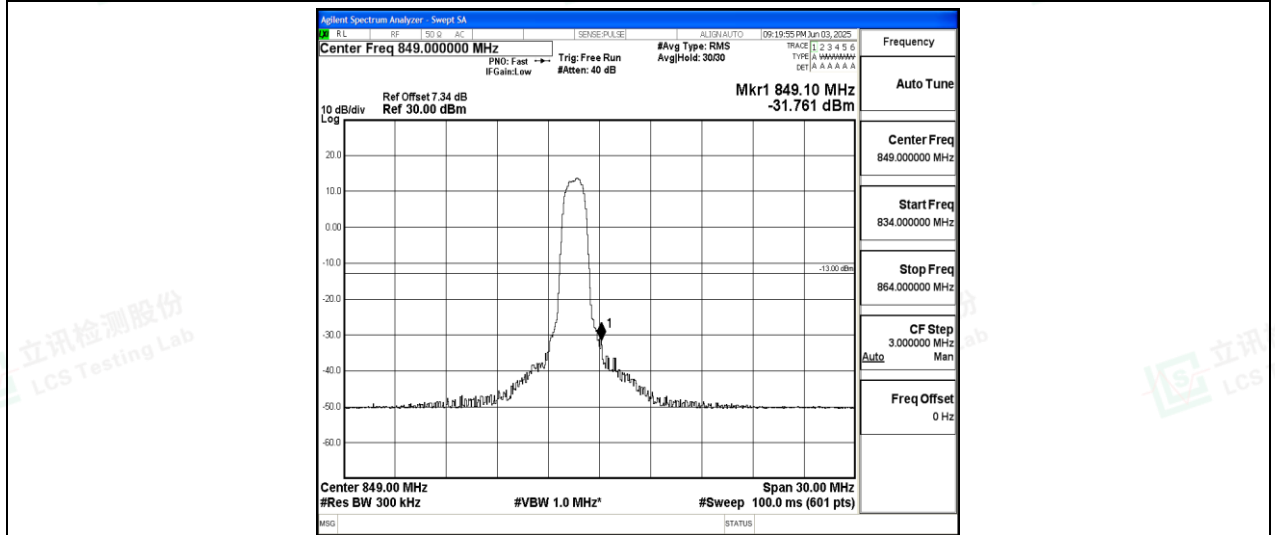
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Band26-15MHz-QPSK-26965-6-0-High--29.64-PASS



Band26-15MHz-16QAM-26965-6-0-High--31.76-PASS



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