



Appendix N: Test Data for E-UTRA Band 17

Product Name: Mobile phone

Test Model: F31tx

Environmental Conditions

Temperature:	23.9° C
Relative Humidity:	52.3%
ATM Pressure:	100.0 kPa
Test Engineer:	Jay Luo
Supervised by:	Nick Peng





N.1 Conducted Output Power Data

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band17	5MHz	QPSK	23755	1RB#0	22.59	PASS
Band17	5MHz	16QAM	23755	1RB#0	22.71	PASS
Band17	5MHz	QPSK	23755	1RB#12	22.68	PASS
Band17	5MHz	16QAM	23755	1RB#12	22.66	PASS
Band17	5MHz	QPSK	23755	1RB#24	22.65	PASS
Band17	5MHz	16QAM	23755	1RB#24	22.64	PASS
Band17	5MHz	QPSK	23755	12RB#0	22.69	PASS
Band17	5MHz	16QAM	23755	12RB#0	22.68	PASS
Band17	5MHz	QPSK	23755	12RB#6	22.68	PASS
Band17	5MHz	16QAM	23755	12RB#6	22.67	PASS
Band17	5MHz	QPSK	23755	12RB#13	22.67	PASS
Band17	5MHz	16QAM	23755	12RB#13	22.67	PASS
Band17	5MHz	QPSK	23755	25RB#0	22.66	PASS
Band17	5MHz	16QAM	23755	25RB#0	22.65	PASS
Band17	5MHz	QPSK	23790	1RB#0	23.51	PASS
Band17	5MHz	16QAM	23790	1RB#0	22.95	PASS
Band17	5MHz	QPSK	23790	1RB#12	23.45	PASS
Band17	5MHz	16QAM	23790	1RB#12	22.99	PASS
Band17	5MHz	QPSK	23790	1RB#24	23.46	PASS
Band17	5MHz	16QAM	23790	1RB#24	22.90	PASS
Band17	5MHz	QPSK	23790	12RB#0	22.74	PASS
Band17	5MHz	16QAM	23790	12RB#0	21.82	PASS
Band17	5MHz	QPSK	23790	12RB#6	22.75	PASS
Band17	5MHz	16QAM	23790	12RB#6	21.82	PASS
Band17	5MHz	QPSK	23790	12RB#13	22.65	PASS
Band17	5MHz	16QAM	23790	12RB#13	21.80	PASS
Band17	5MHz	QPSK	23790	25RB#0	22.75	PASS
Band17	5MHz	16QAM	23790	25RB#0	21.78	PASS
Band17	5MHz	QPSK	23825	1RB#0	23.47	PASS
Band17	5MHz	16QAM	23825	1RB#0	22.40	PASS
Band17	5MHz	QPSK	23825	1RB#12	23.44	PASS
Band17	5MHz	16QAM	23825	1RB#12	22.68	PASS
Band17	5MHz	QPSK	23825	1RB#24	23.71	PASS
Band17	5MHz	16QAM	23825	1RB#24	22.61	PASS
Band17	5MHz	QPSK	23825	12RB#0	22.59	PASS
Band17	5MHz	16QAM	23825	12RB#0	21.86	PASS



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Band17	5MHz	QPSK	23825	12RB#6	22.59	PASS
Band17	5MHz	16QAM	23825	12RB#6	21.70	PASS
Band17	5MHz	QPSK	23825	12RB#13	22.61	PASS
Band17	5MHz	16QAM	23825	12RB#13	21.69	PASS
Band17	5MHz	QPSK	23825	25RB#0	22.74	PASS
Band17	5MHz	16QAM	23825	25RB#0	21.82	PASS
Band17	10MHz	QPSK	23780	1RB#0	23.18	PASS
Band17	10MHz	16QAM	23780	1RB#0	22.33	PASS
Band17	10MHz	QPSK	23780	1RB#24	23.29	PASS
Band17	10MHz	16QAM	23780	1RB#24	22.27	PASS
Band17	10MHz	QPSK	23780	1RB#49	23.30	PASS
Band17	10MHz	16QAM	23780	1RB#49	22.35	PASS
Band17	10MHz	QPSK	23780	25RB#0	22.60	PASS
Band17	10MHz	16QAM	23780	25RB#0	21.61	PASS
Band17	10MHz	QPSK	23780	25RB#12	22.61	PASS
Band17	10MHz	16QAM	23780	25RB#12	21.61	PASS
Band17	10MHz	QPSK	23780	25RB#25	22.49	PASS
Band17	10MHz	16QAM	23780	25RB#25	21.66	PASS
Band17	10MHz	QPSK	23780	50RB#0	22.68	PASS
Band17	10MHz	16QAM	23780	50RB#0	21.62	PASS
Band17	10MHz	QPSK	23790	1RB#0	23.69	PASS
Band17	10MHz	16QAM	23790	1RB#0	22.59	PASS
Band17	10MHz	QPSK	23790	1RB#24	23.66	PASS
Band17	10MHz	16QAM	23790	1RB#24	22.50	PASS
Band17	10MHz	QPSK	23790	1RB#49	23.42	PASS
Band17	10MHz	16QAM	23790	1RB#49	22.64	PASS
Band17	10MHz	QPSK	23790	25RB#0	22.52	PASS
Band17	10MHz	16QAM	23790	25RB#0	21.77	PASS
Band17	10MHz	QPSK	23790	25RB#12	22.58	PASS
Band17	10MHz	16QAM	23790	25RB#12	21.85	PASS
Band17	10MHz	QPSK	23790	25RB#25	22.45	PASS
Band17	10MHz	16QAM	23790	25RB#25	21.70	PASS
Band17	10MHz	QPSK	23790	50RB#0	22.45	PASS
Band17	10MHz	16QAM	23790	50RB#0	21.71	PASS
Band17	10MHz	QPSK	23800	1RB#0	23.39	PASS
Band17	10MHz	16QAM	23800	1RB#0	23.27	PASS
Band17	10MHz	QPSK	23800	1RB#24	23.39	PASS
Band17	10MHz	16QAM	23800	1RB#24	23.30	PASS
Band17	10MHz	QPSK	23800	1RB#49	23.24	PASS
Band17	10MHz	16QAM	23800	1RB#49	23.16	PASS
Band17	10MHz	QPSK	23800	25RB#0	22.54	PASS
Band17	10MHz	16QAM	23800	25RB#0	21.75	PASS



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Band17	10MHz	QPSK	23800	25RB#12	22.55	PASS
Band17	10MHz	16QAM	23800	25RB#12	21.76	PASS
Band17	10MHz	QPSK	23800	25RB#25	22.74	PASS
Band17	10MHz	16QAM	23800	25RB#25	21.76	PASS
Band17	10MHz	QPSK	23800	50RB#0	22.63	PASS
Band17	10MHz	16QAM	23800	50RB#0	21.71	PASS





N.2 Peak-to-Average Ratio(CCDF)

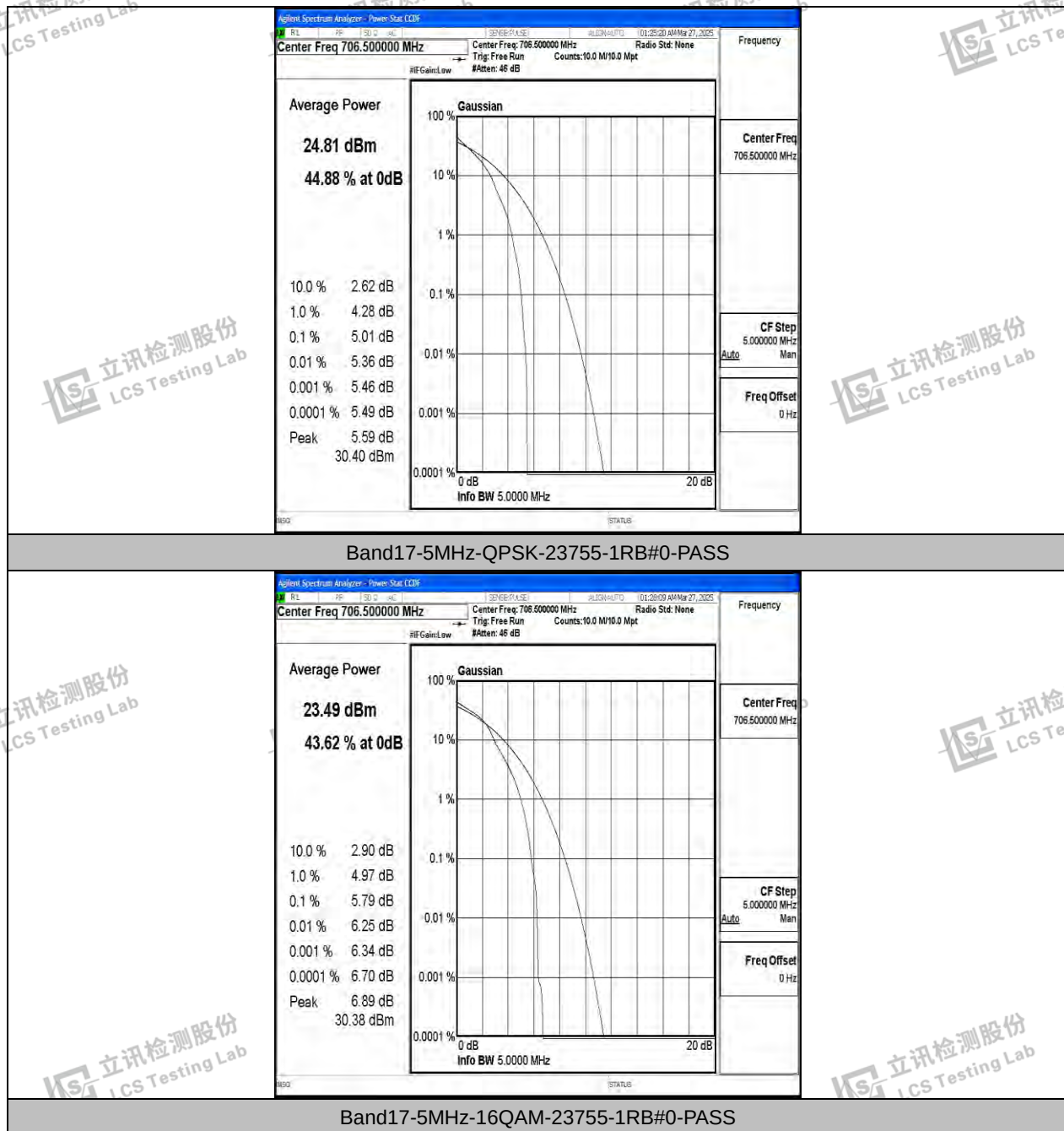
Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band17	5MHz	QPSK	23755	1RB#0	5.01	13	PASS
Band17	5MHz	16QAM	23755	1RB#0	5.79	13	PASS
Band17	5MHz	QPSK	23755	25RB#0	5.60	13	PASS
Band17	5MHz	16QAM	23755	25RB#0	6.27	13	PASS
Band17	5MHz	QPSK	23790	1RB#0	4.97	13	PASS
Band17	5MHz	16QAM	23790	1RB#0	5.79	13	PASS
Band17	5MHz	QPSK	23790	25RB#0	5.62	13	PASS
Band17	5MHz	16QAM	23790	25RB#0	6.28	13	PASS
Band17	5MHz	QPSK	23825	1RB#0	4.91	13	PASS
Band17	5MHz	16QAM	23825	1RB#0	5.65	13	PASS
Band17	5MHz	QPSK	23825	25RB#0	5.44	13	PASS
Band17	5MHz	16QAM	23825	25RB#0	6.11	13	PASS
Band17	10MHz	QPSK	23780	1RB#0	5.00	13	PASS
Band17	10MHz	16QAM	23780	1RB#0	5.90	13	PASS
Band17	10MHz	QPSK	23780	50RB#0	5.63	13	PASS
Band17	10MHz	16QAM	23780	50RB#0	6.34	13	PASS
Band17	10MHz	QPSK	23790	1RB#0	4.72	13	PASS
Band17	10MHz	16QAM	23790	1RB#0	5.83	13	PASS
Band17	10MHz	QPSK	23790	50RB#0	5.58	13	PASS
Band17	10MHz	16QAM	23790	50RB#0	6.34	13	PASS
Band17	10MHz	QPSK	23800	1RB#0	4.82	13	PASS
Band17	10MHz	16QAM	23800	1RB#0	5.29	13	PASS
Band17	10MHz	QPSK	23800	50RB#0	5.55	13	PASS
Band17	10MHz	16QAM	23800	50RB#0	6.28	13	PASS





Test Graphs

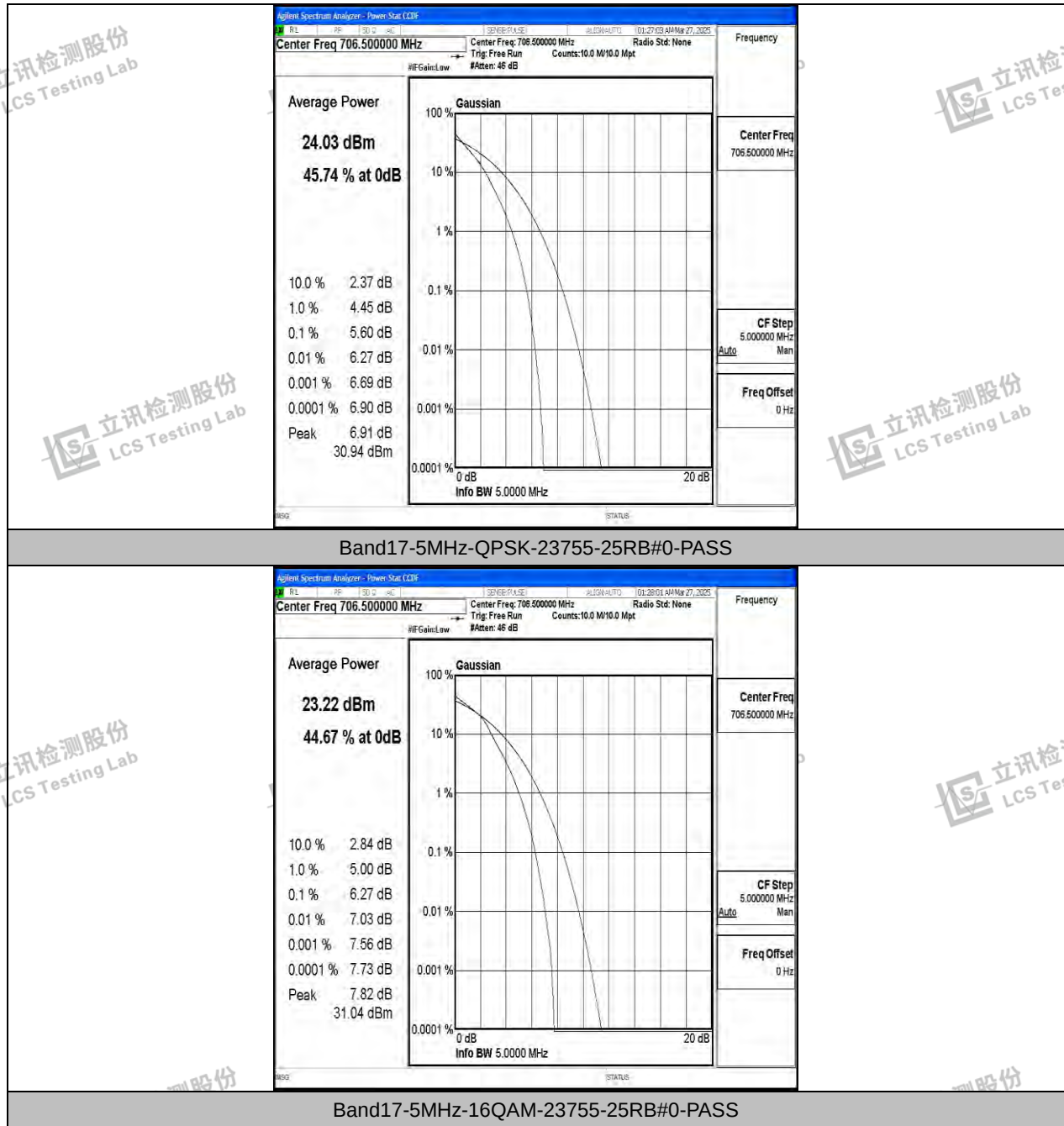


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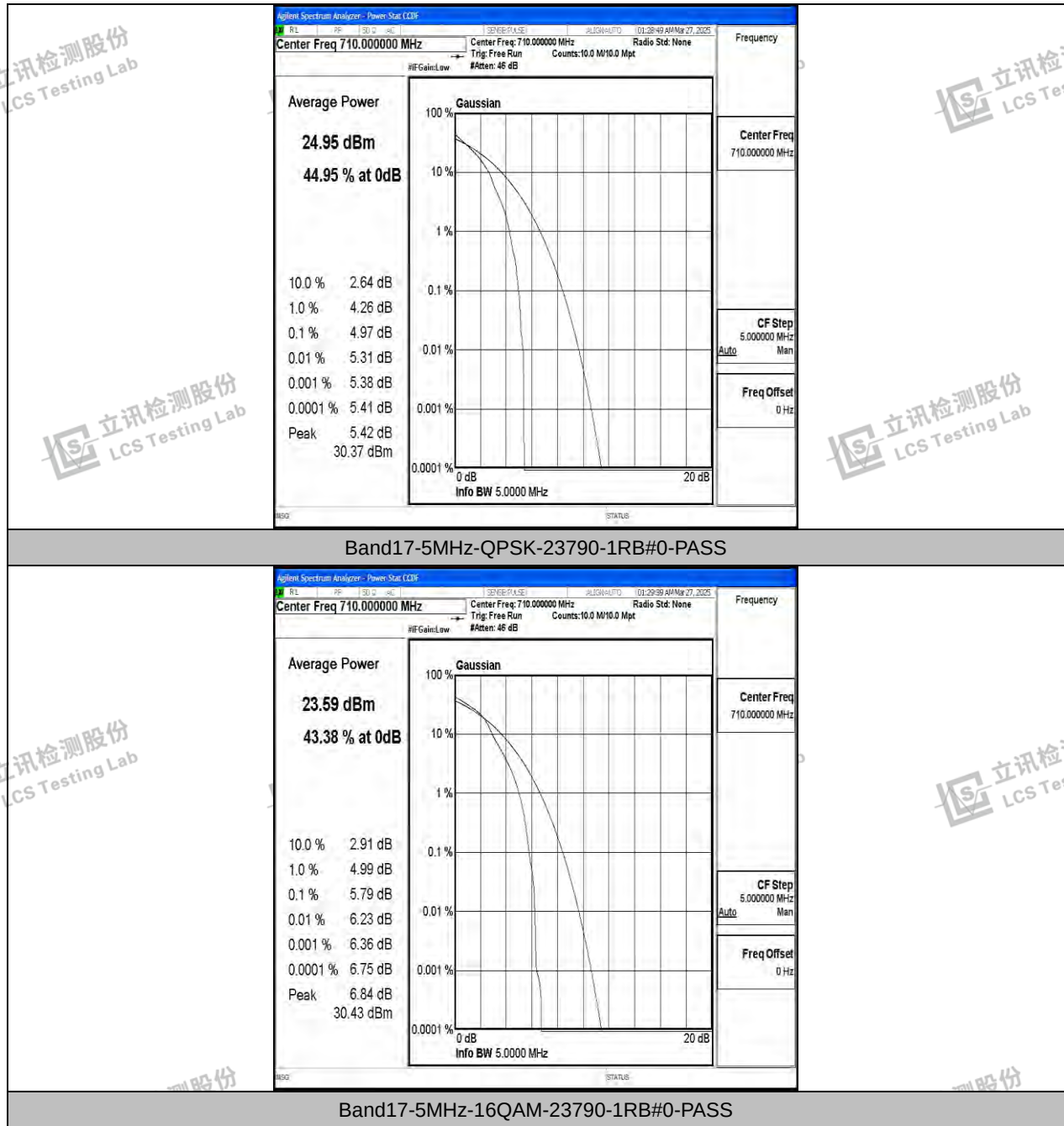


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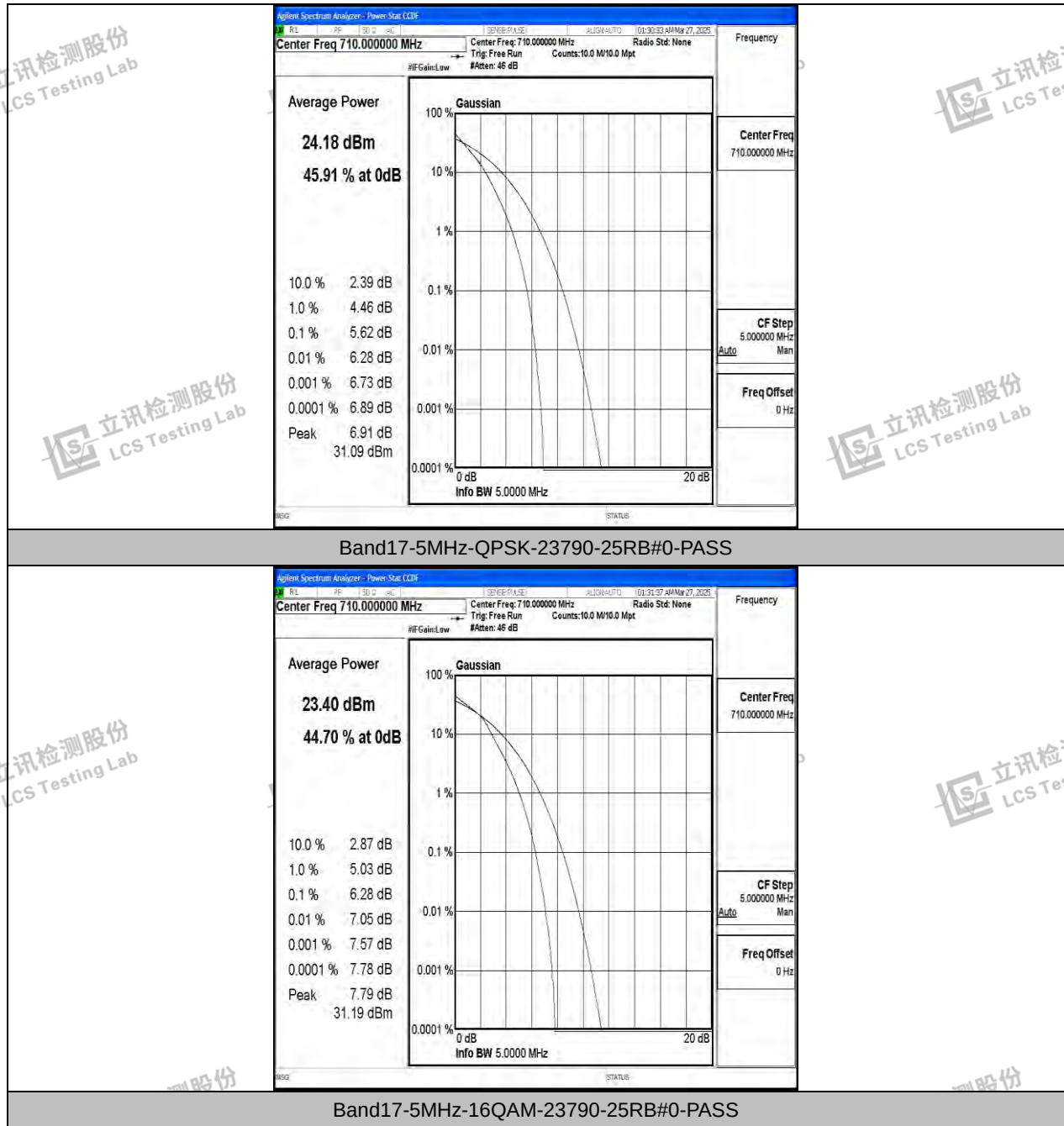


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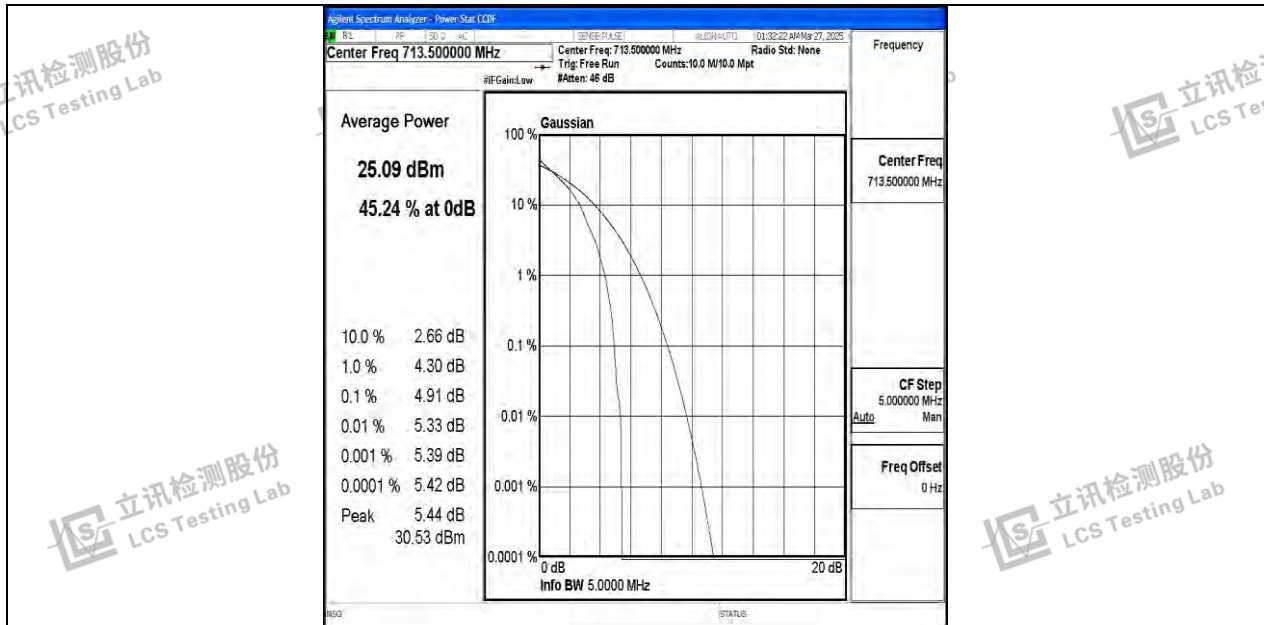


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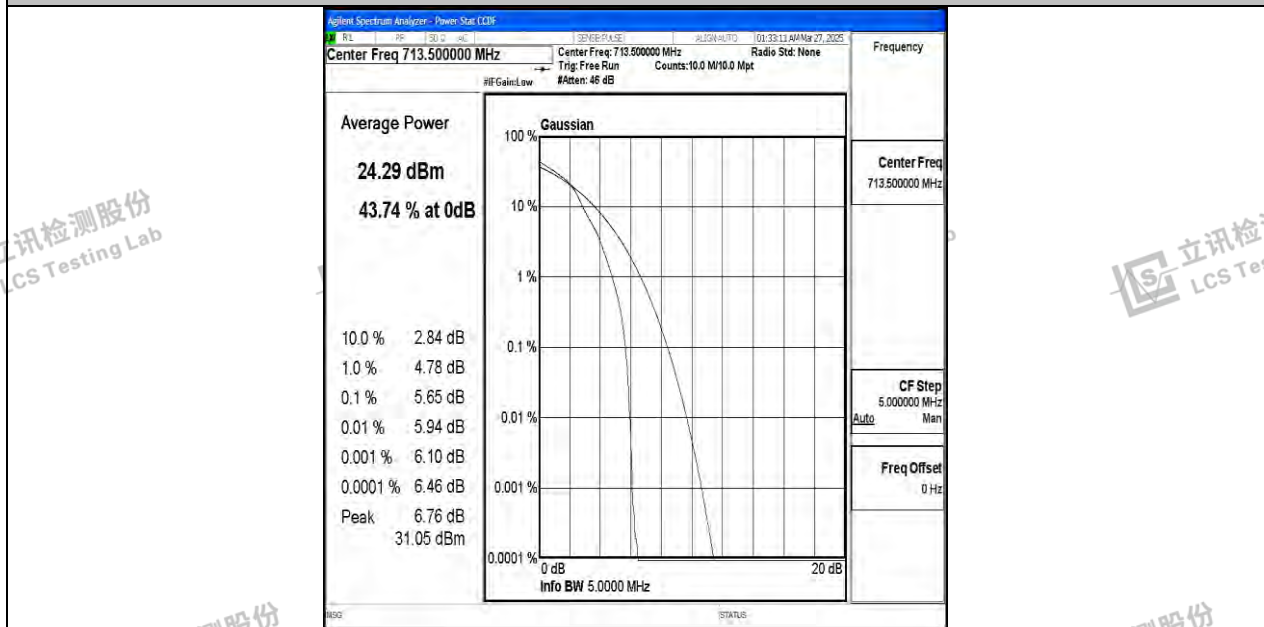
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Band17-5MHz-QPSK-23825-1RB#0-PASS



Band17-5MHz-16QAM-23825-1RB#0-PASS

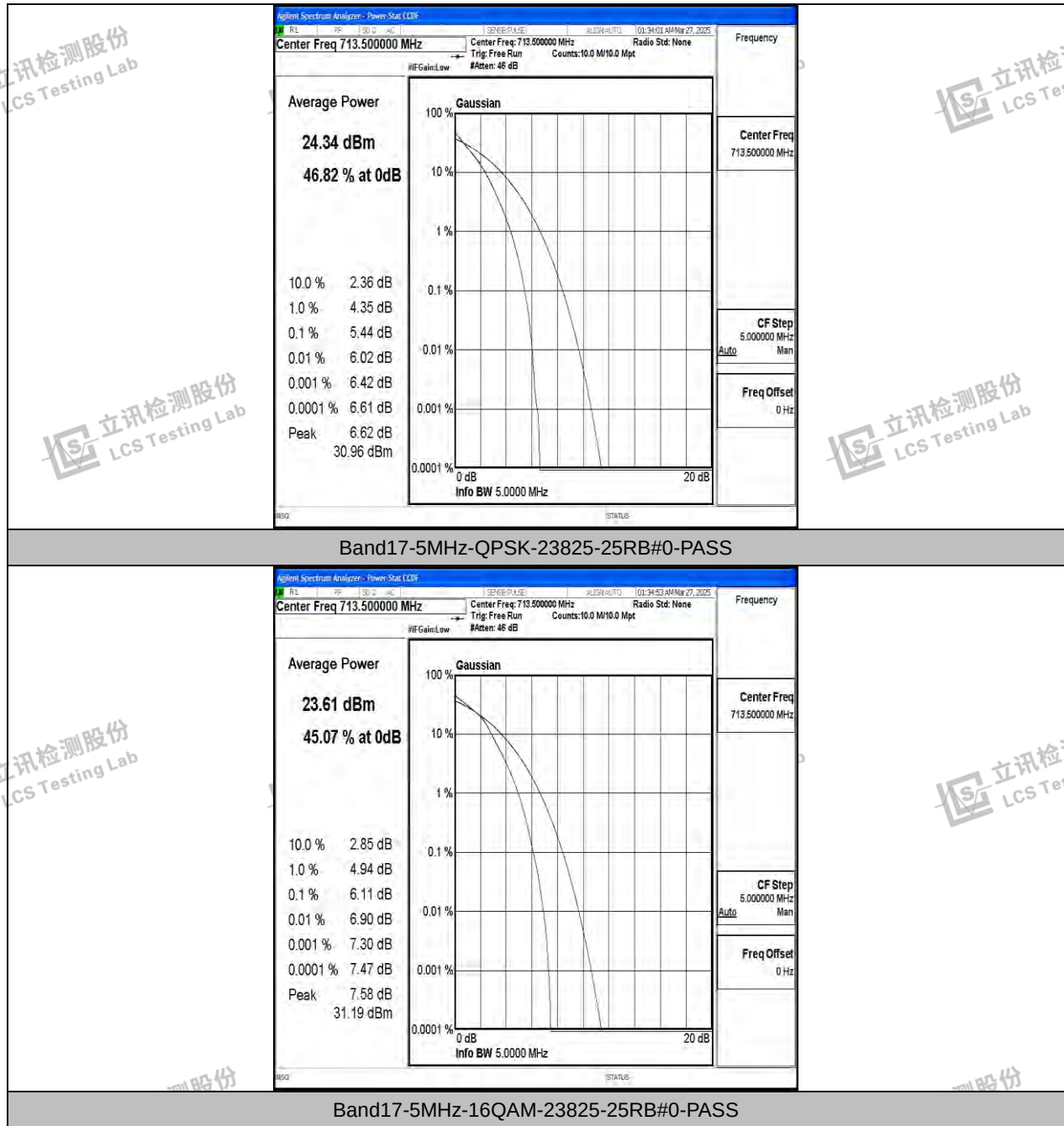


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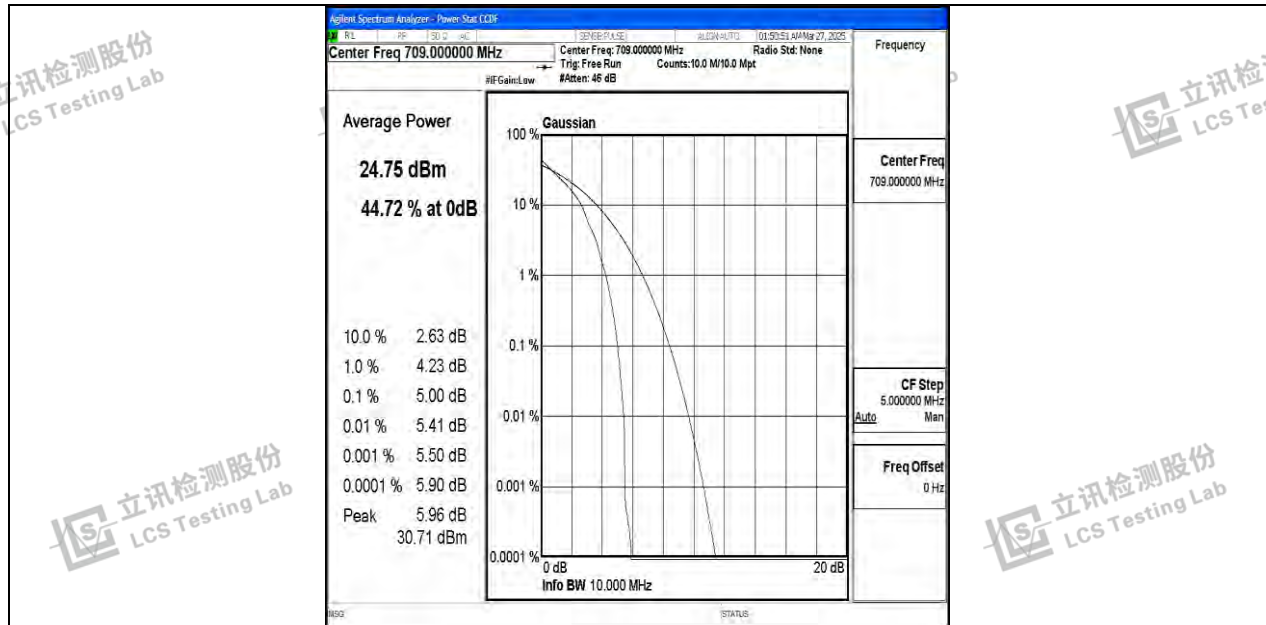


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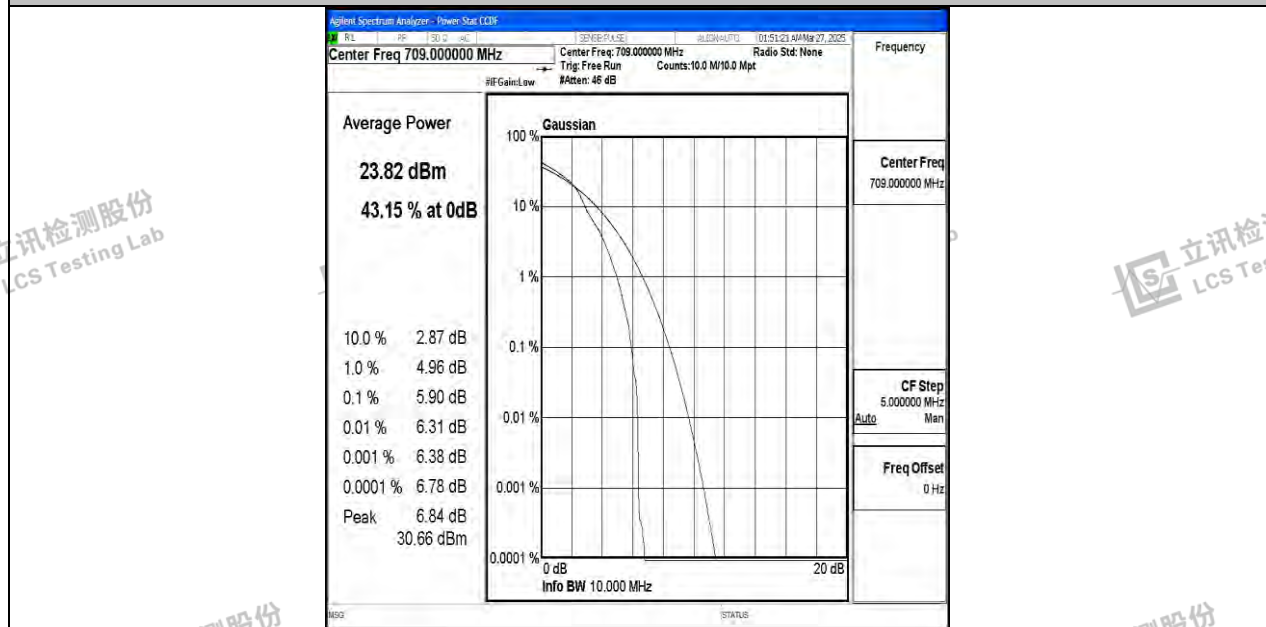
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Band17-10MHz-QPSK-23780-1RB#0-PASS



Band17-10MHz-16QAM-23780-1RB#0-PASS

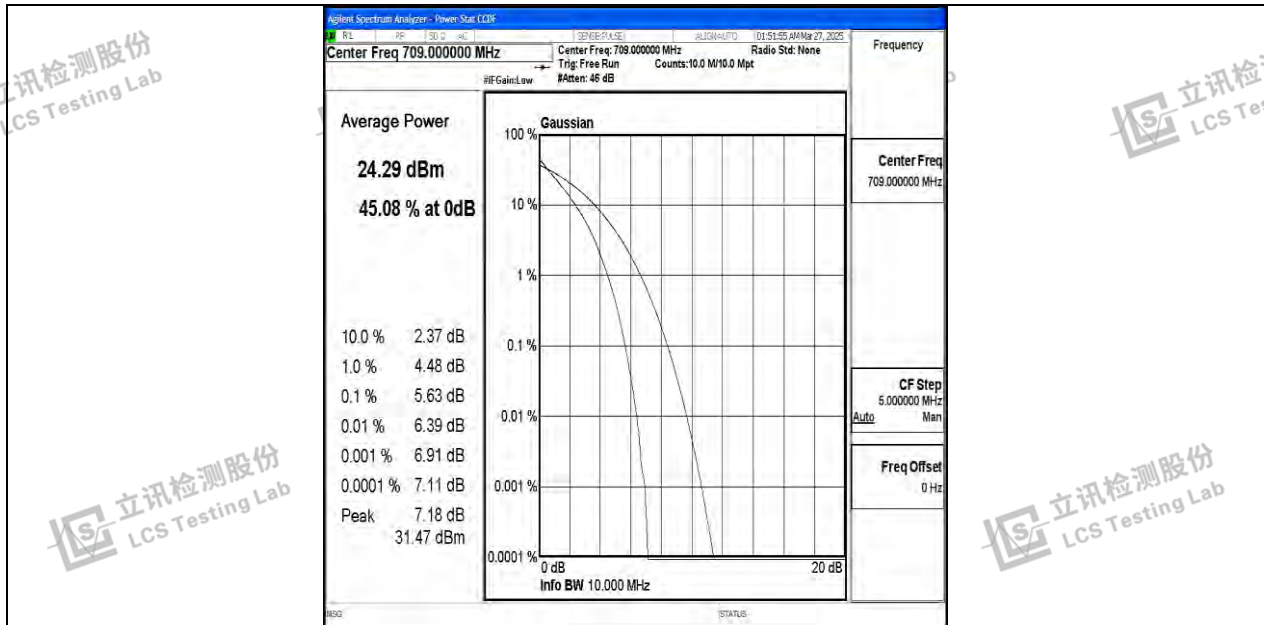


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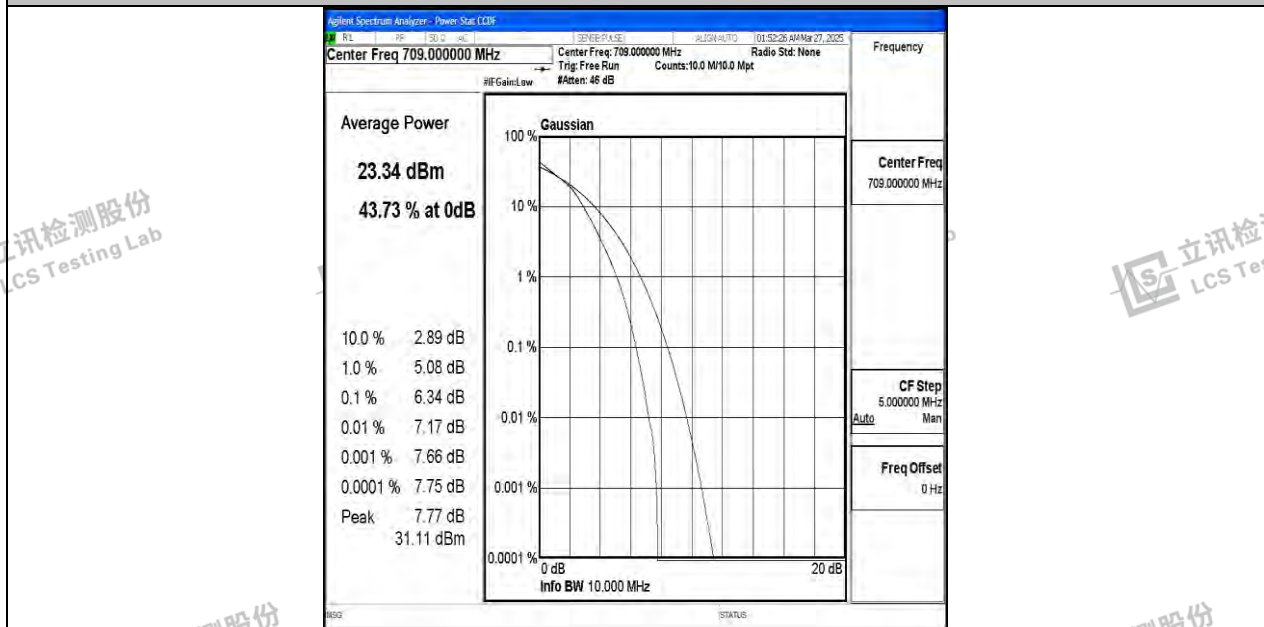
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Band17-10MHz-QPSK-23780-50RB#0-PASS



Band17-10MHz-16QAM-23780-50RB#0-PASS

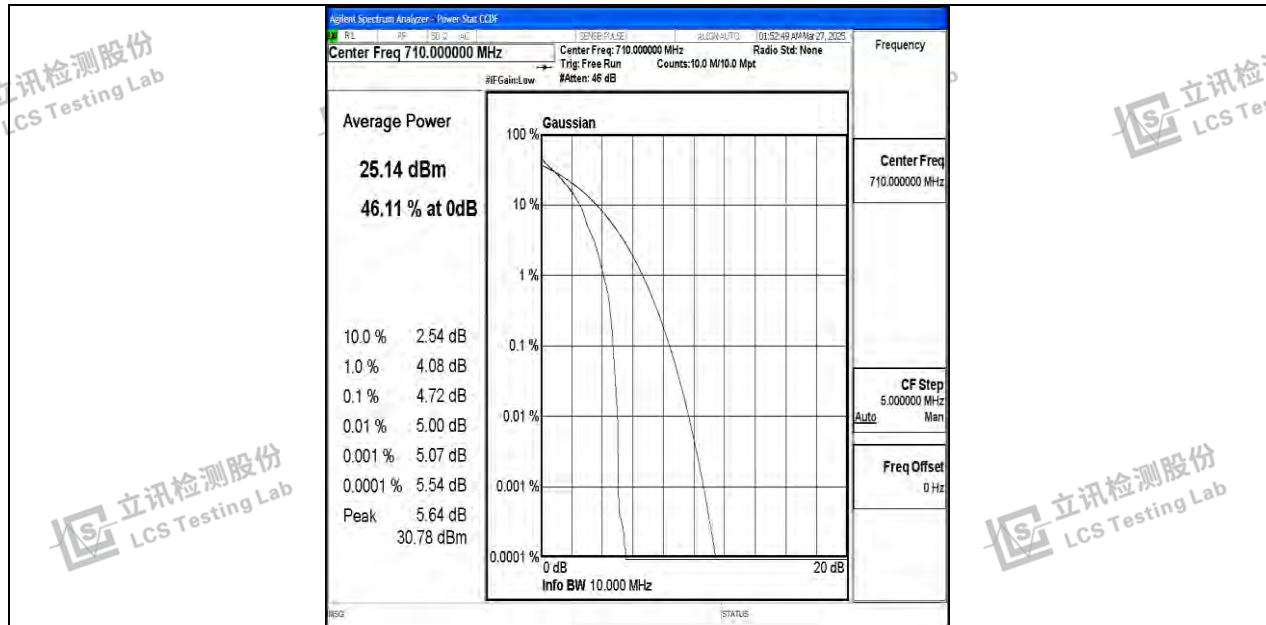


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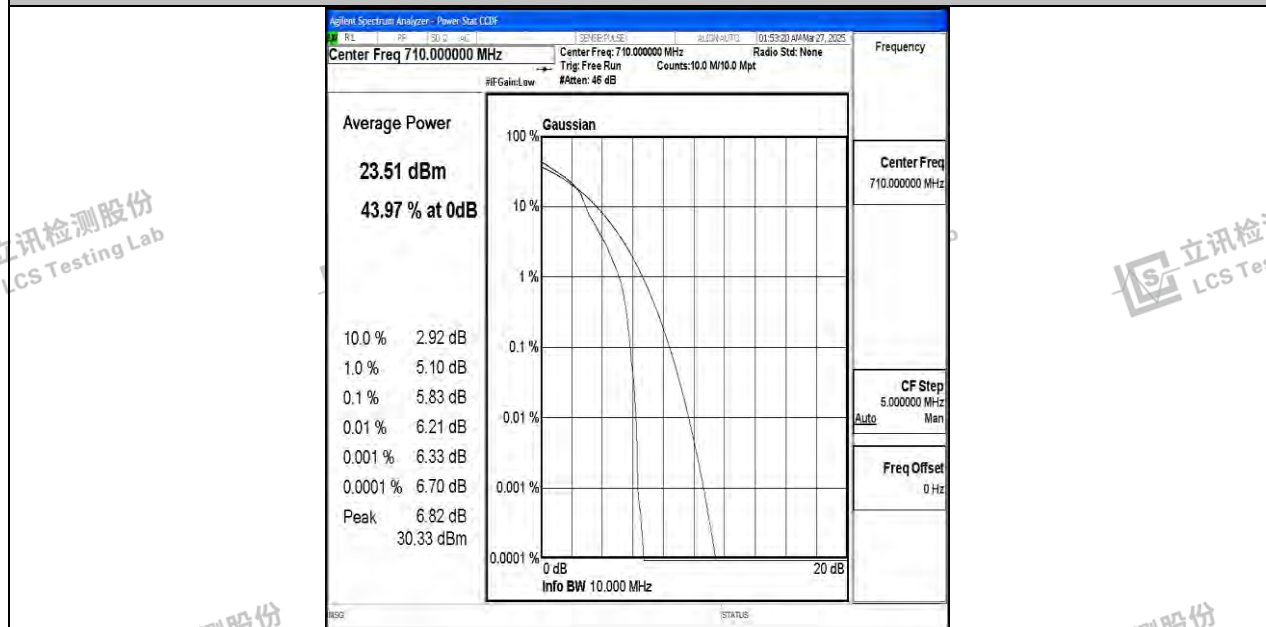
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Band17-10MHz-QPSK-23790-1RB#0-PASS



Band17-10MHz-16QAM-23790-1RB#0-PASS

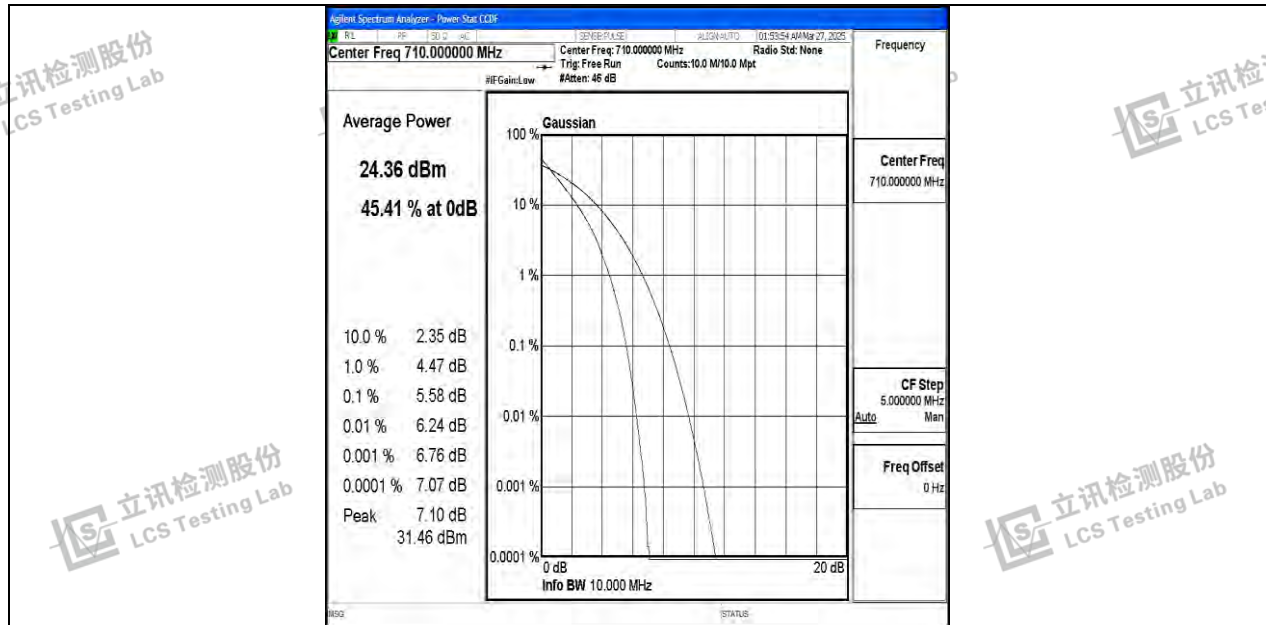


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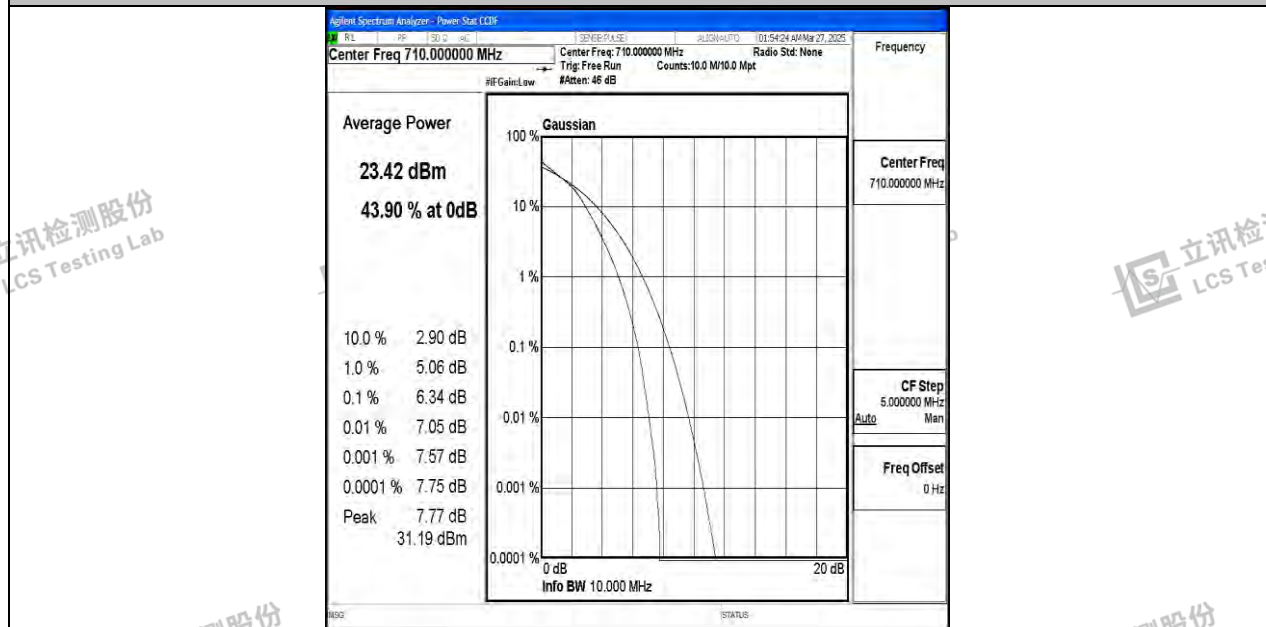
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Band17-10MHz-QPSK-23790-50RB#0-PASS



Band17-10MHz-16QAM-23790-50RB#0-PASS

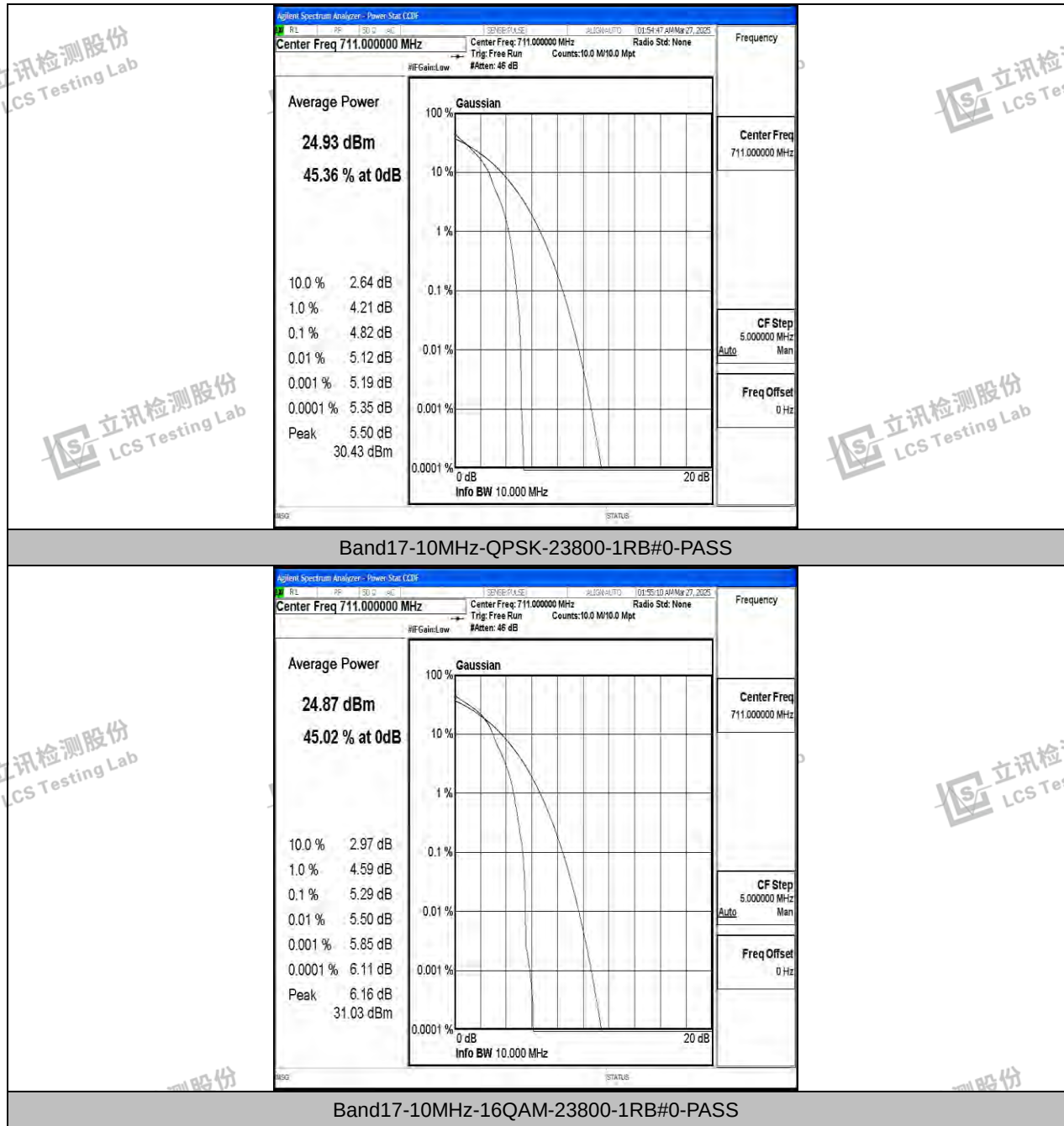


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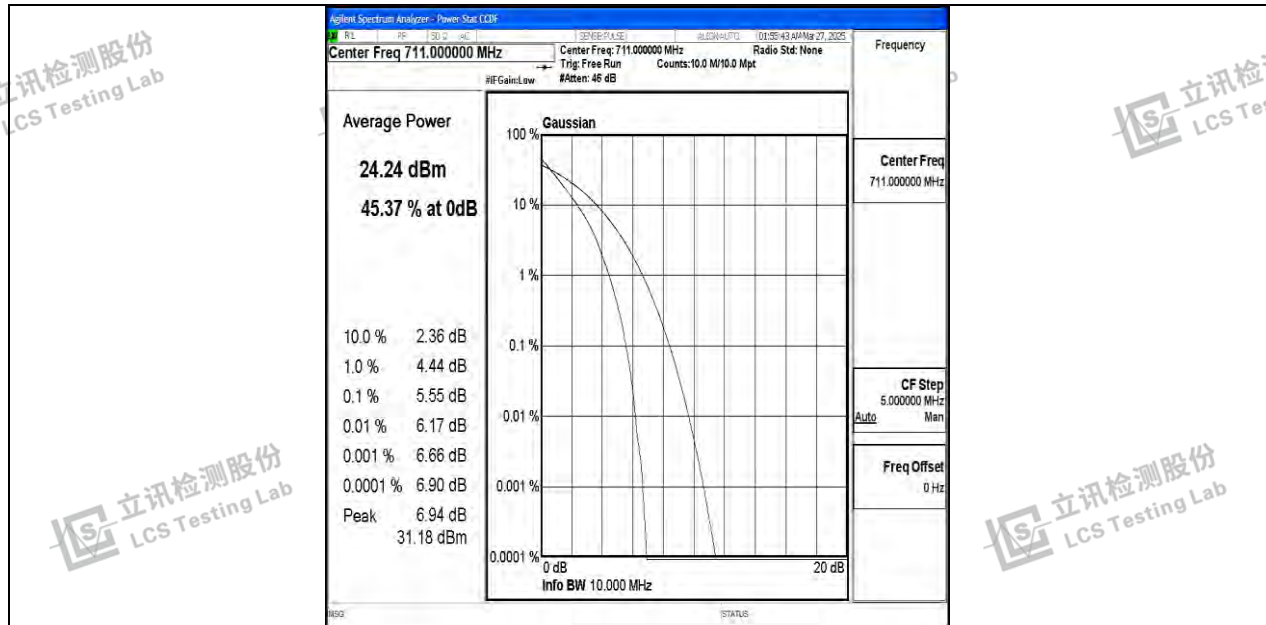


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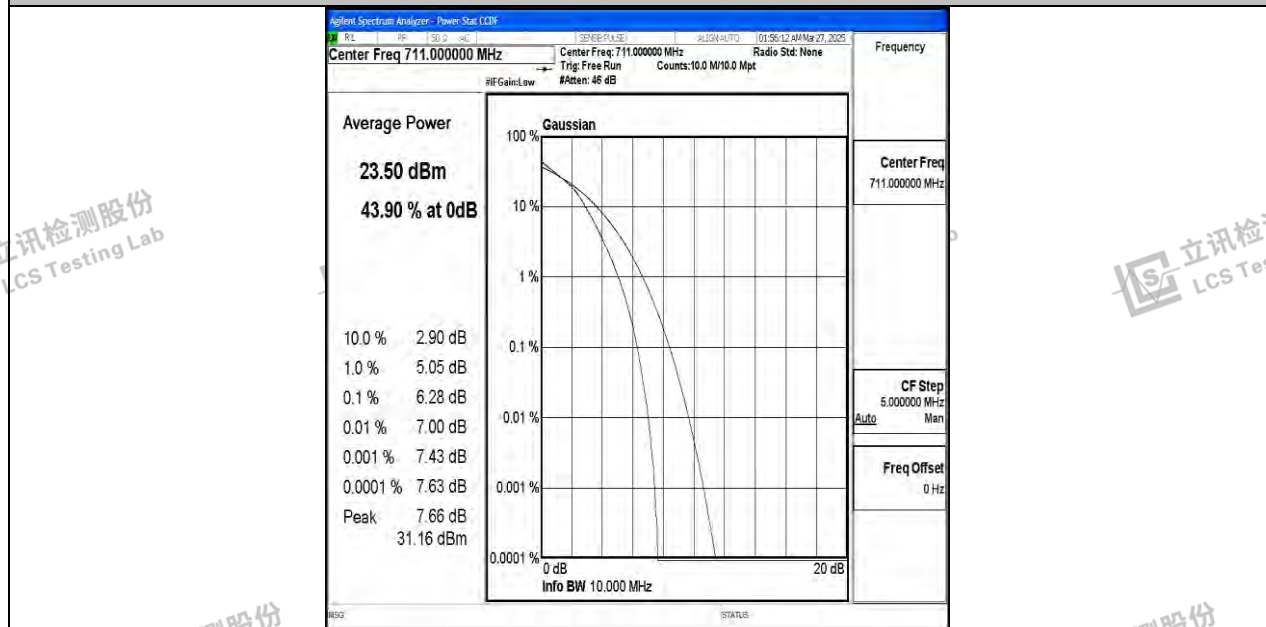
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Band17-10MHz-QPSK-23800-50RB#0-PASS



Band17-10MHz-16QAM-23800-50RB#0-PASS



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N.3 26dB Bandwidth and Occupied Bandwidth

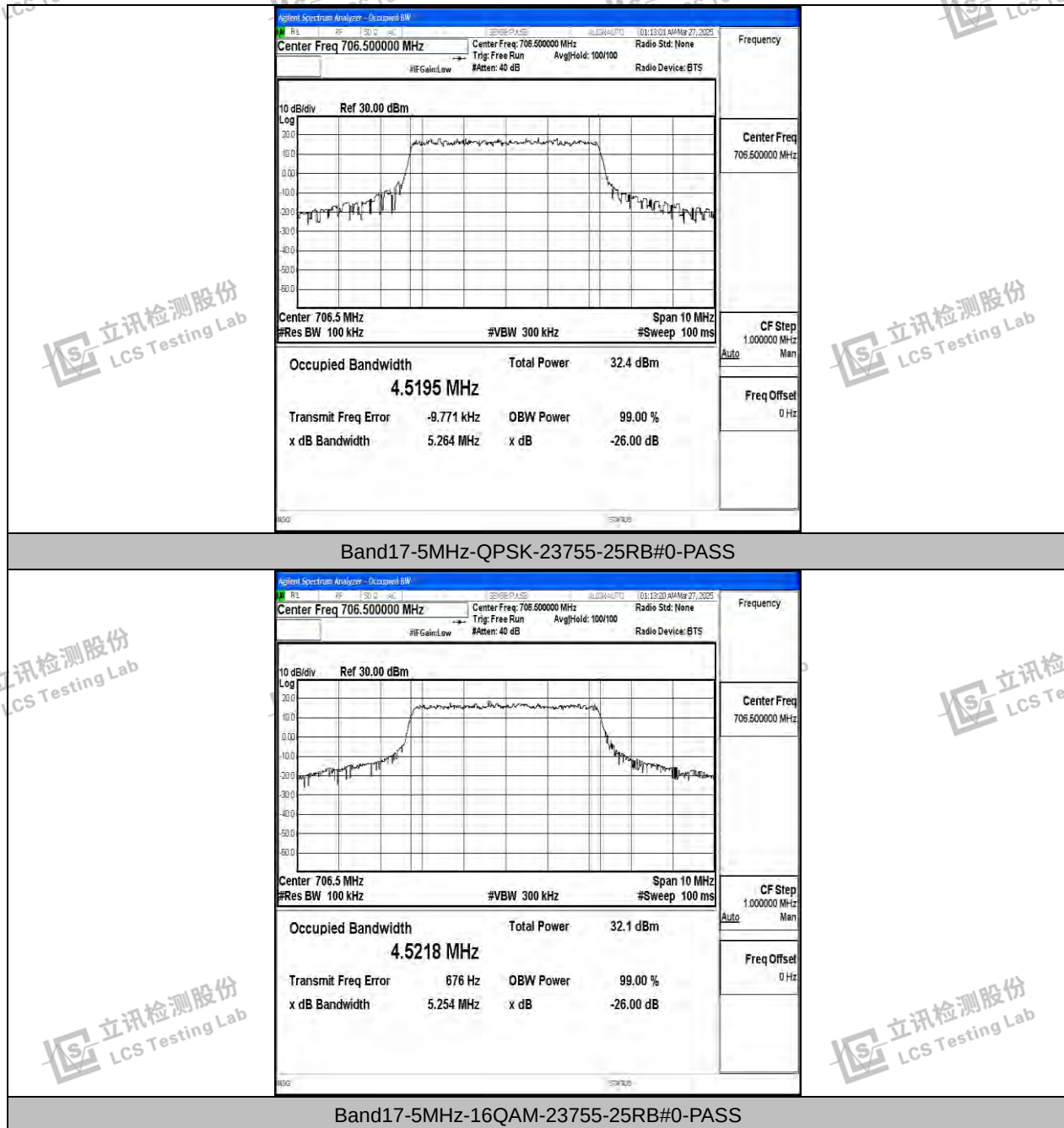
Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band17	5MHz	QPSK	23755	25RB#0	4.5195	5.264	PASS
Band17	5MHz	16QAM	23755	25RB#0	4.5218	5.254	PASS
Band17	5MHz	QPSK	23790	25RB#0	4.5145	5.274	PASS
Band17	5MHz	16QAM	23790	25RB#0	4.5215	5.204	PASS
Band17	5MHz	QPSK	23825	25RB#0	4.5062	5.511	PASS
Band17	5MHz	16QAM	23825	25RB#0	4.5355	5.366	PASS
Band17	10MHz	QPSK	23780	50RB#0	9.0074	10.08	PASS
Band17	10MHz	16QAM	23780	50RB#0	9.0038	9.996	PASS
Band17	10MHz	QPSK	23790	50RB#0	9.0174	10.24	PASS
Band17	10MHz	16QAM	23790	50RB#0	9.0167	10.52	PASS
Band17	10MHz	QPSK	23800	50RB#0	8.9773	9.977	PASS
Band17	10MHz	16QAM	23800	50RB#0	9.0044	10.12	PASS





Test Graphs

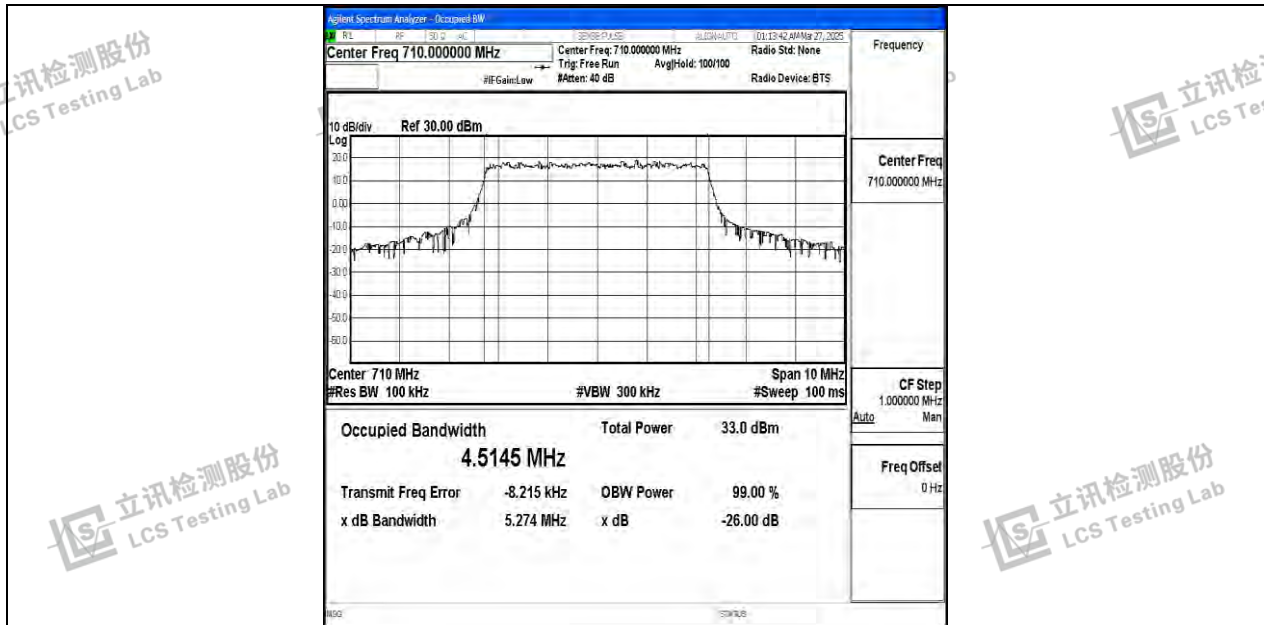


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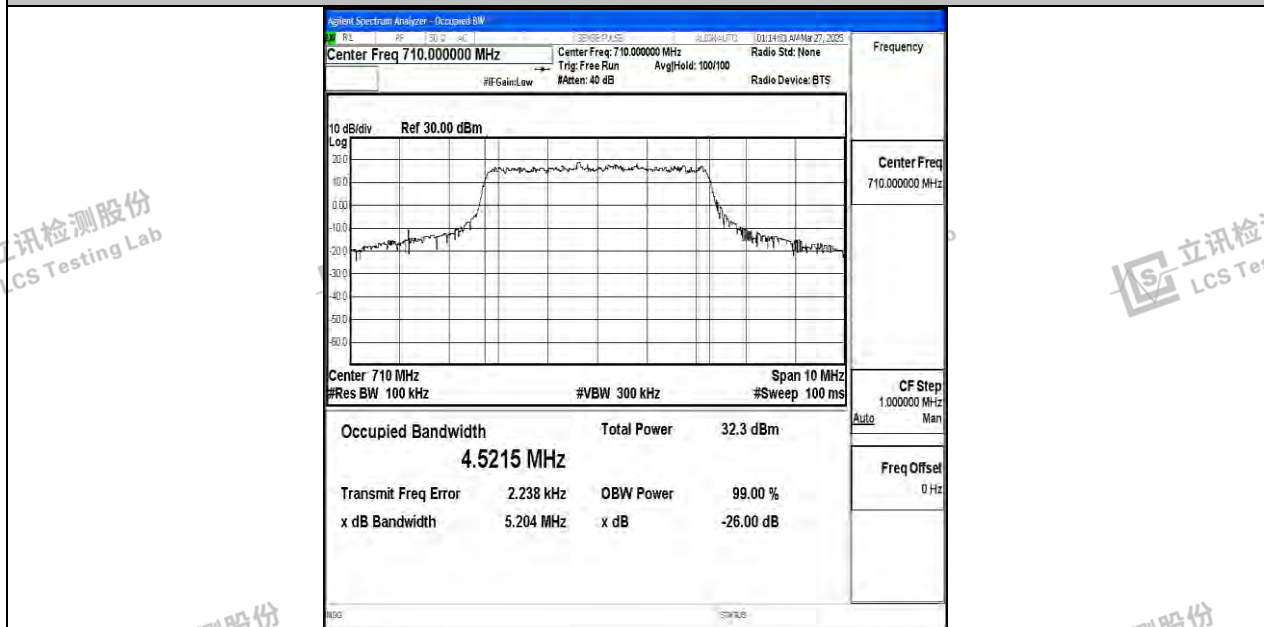
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Band17-5MHz-QPSK-23790-25RB#0-PASS



Band17-5MHz-16QAM-23790-25RB#0-PASS

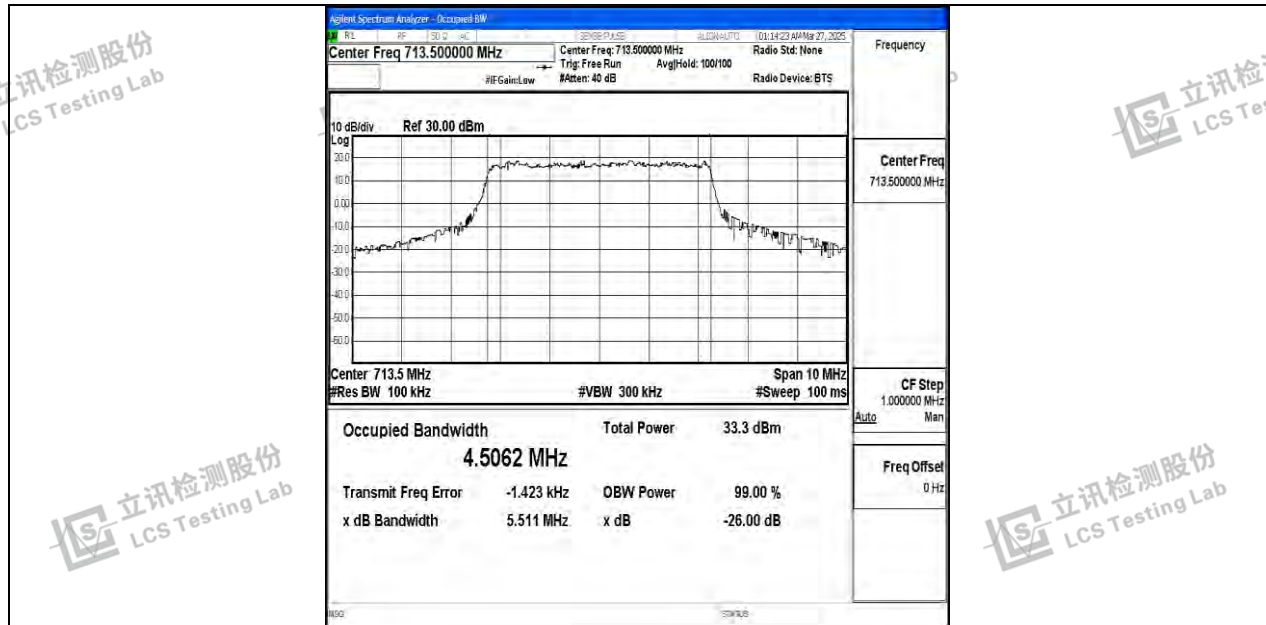


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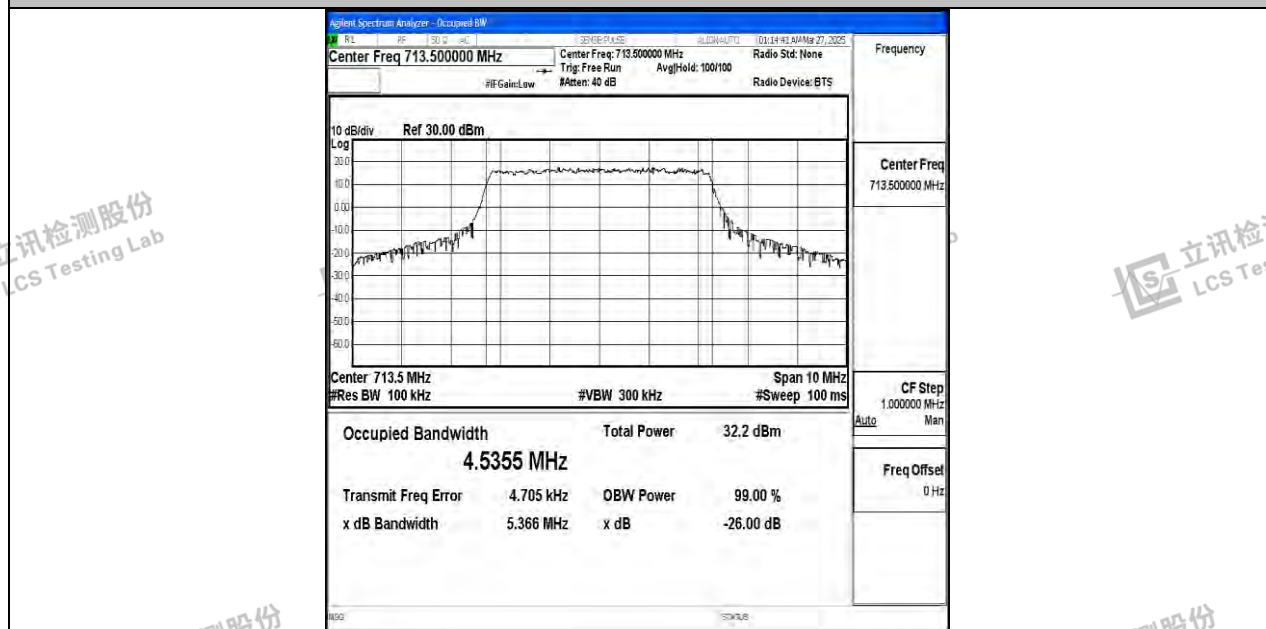
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Band17-5MHz-QPSK-23825-25RB#0-PASS



Band17-5MHz-16QAM-23825-25RB#0-PASS

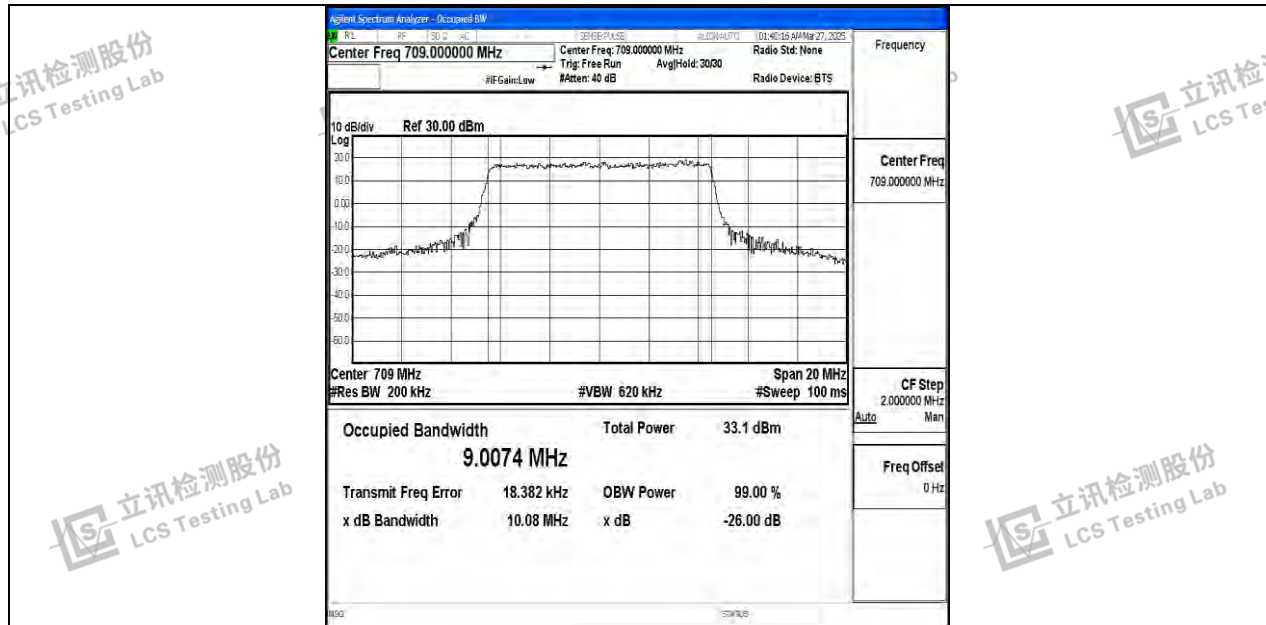


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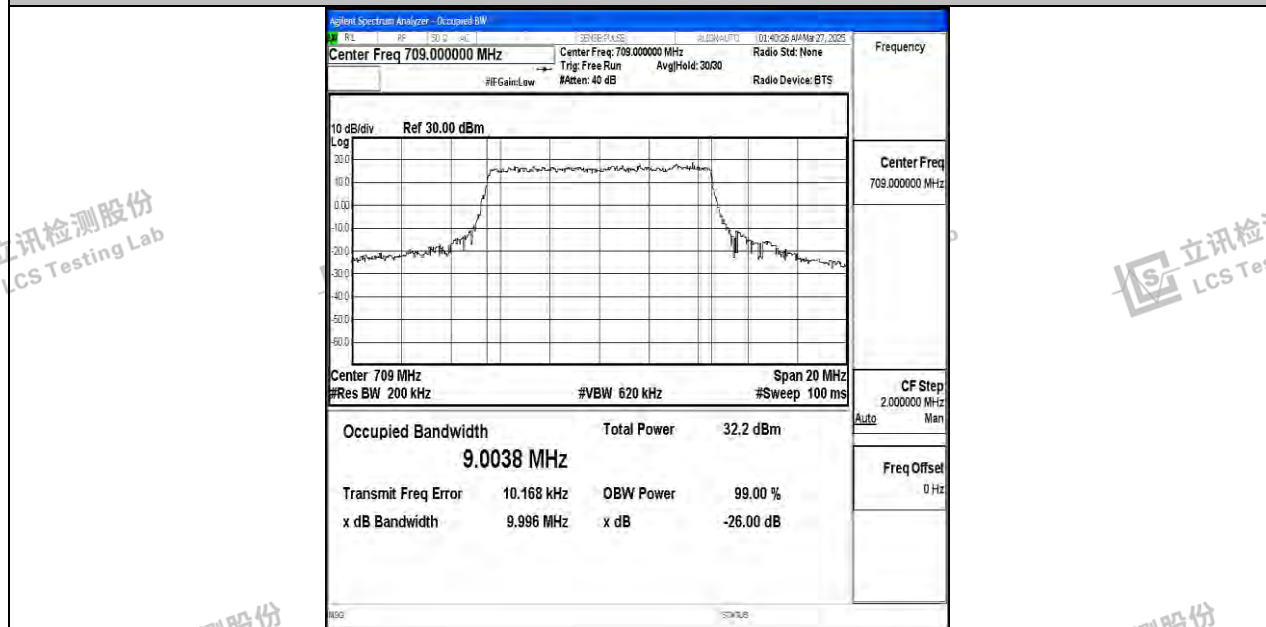
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Band17-10MHz-QPSK-23780-50RB#0-PASS



Band17-10MHz-16QAM-23780-50RB#0-PASS

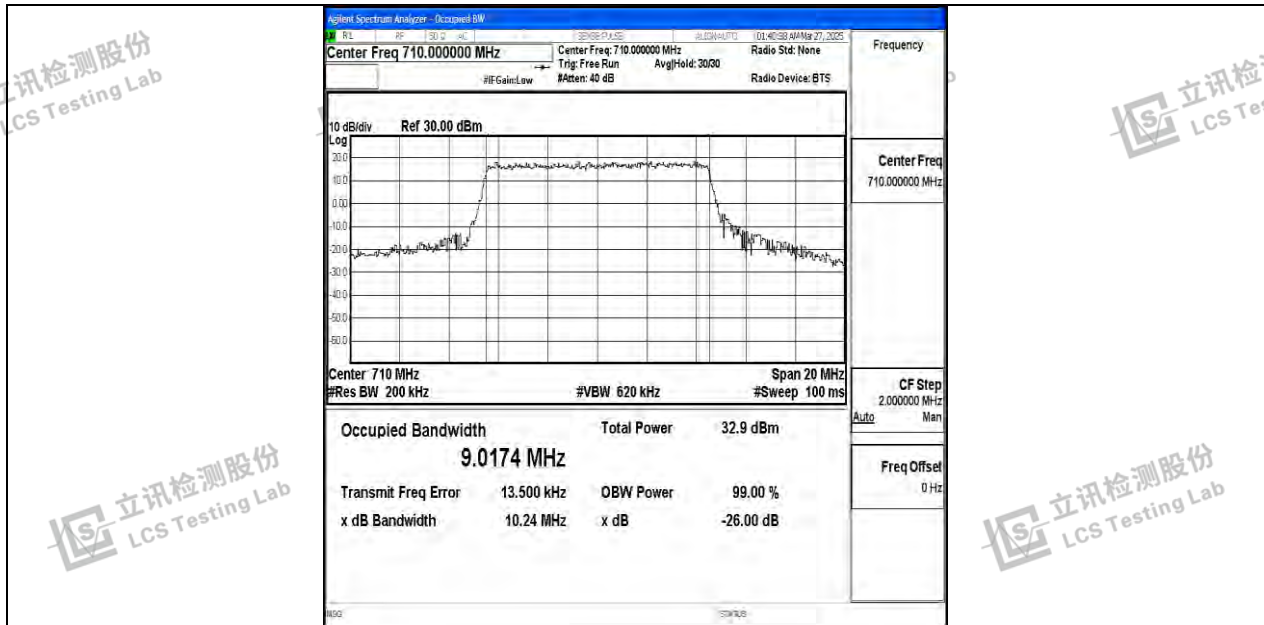


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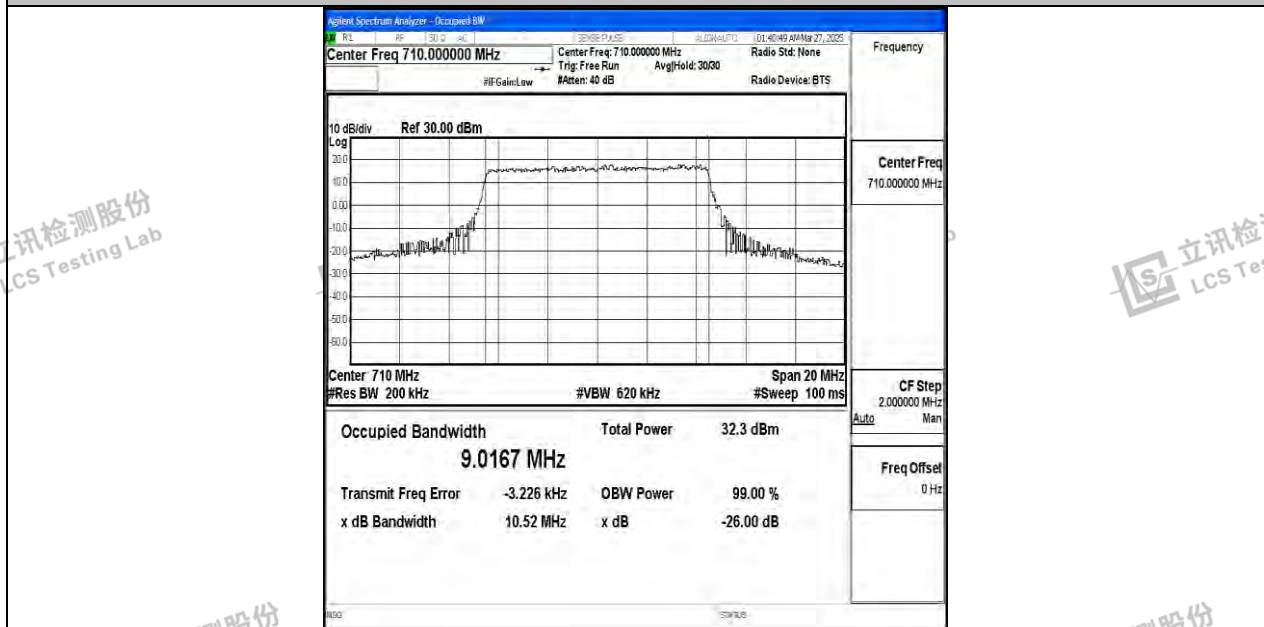
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Band17-10MHz-QPSK-23790-50RB#0-PASS



Band17-10MHz-16QAM-23790-50RB#0-PASS

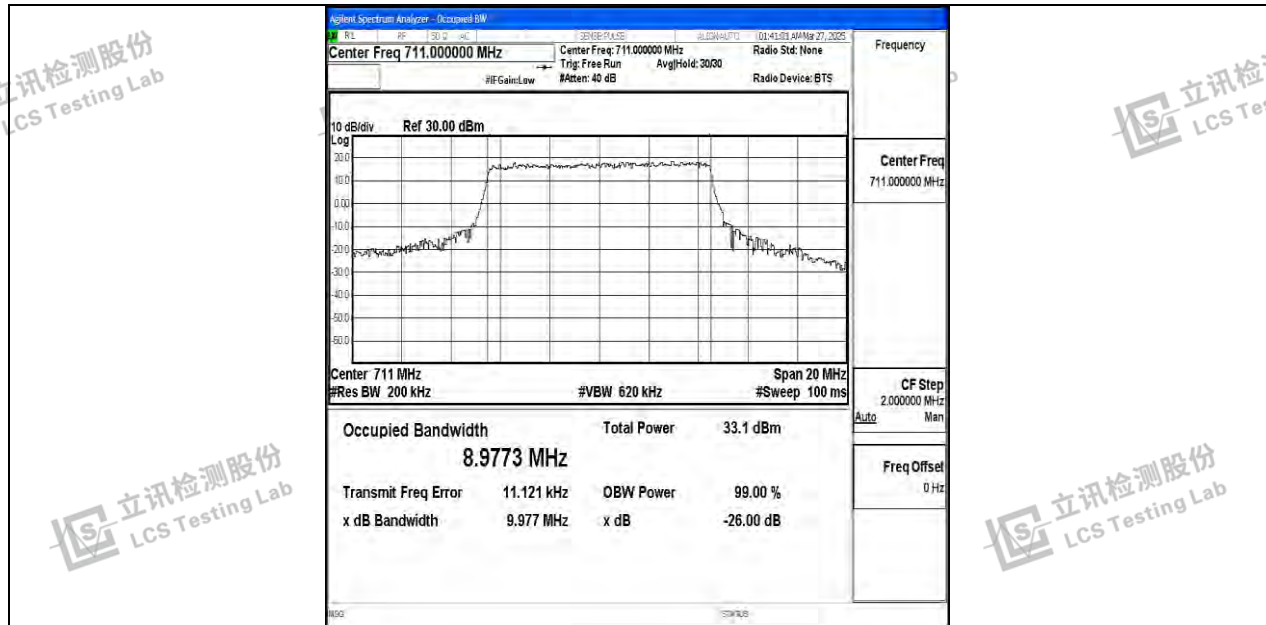


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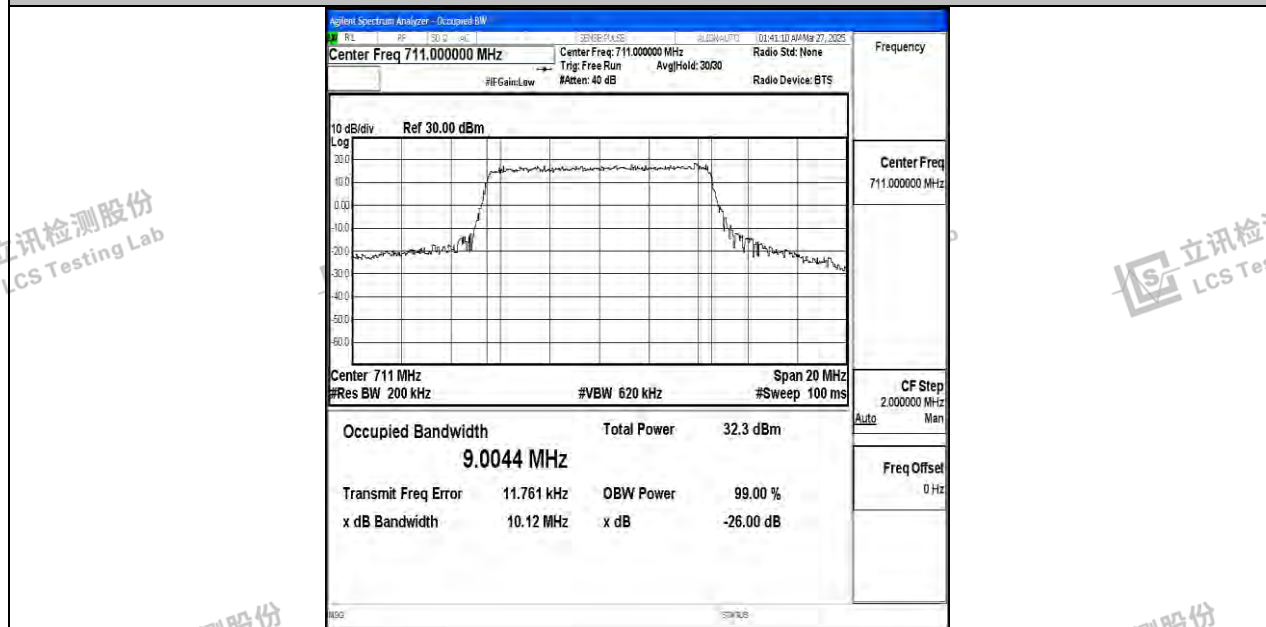
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Band17-10MHz-QPSK-23800-50RB#0-PASS



Band17-10MHz-16QAM-23800-50RB#0-PASS



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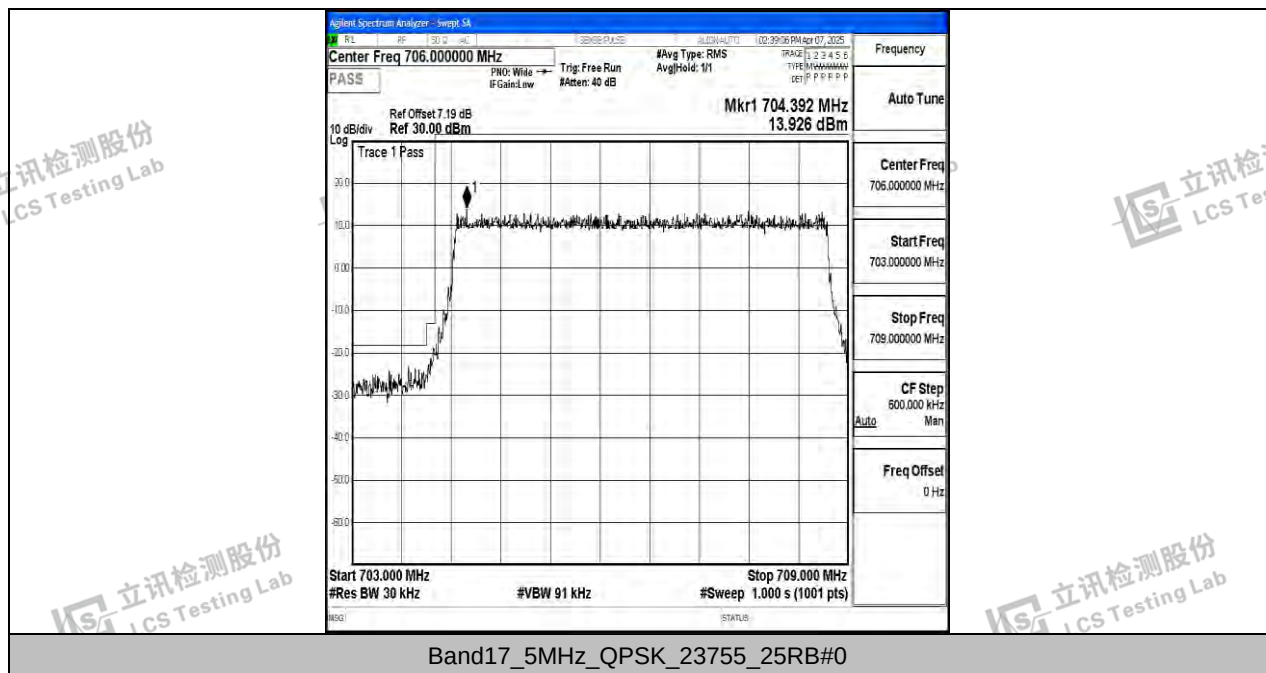


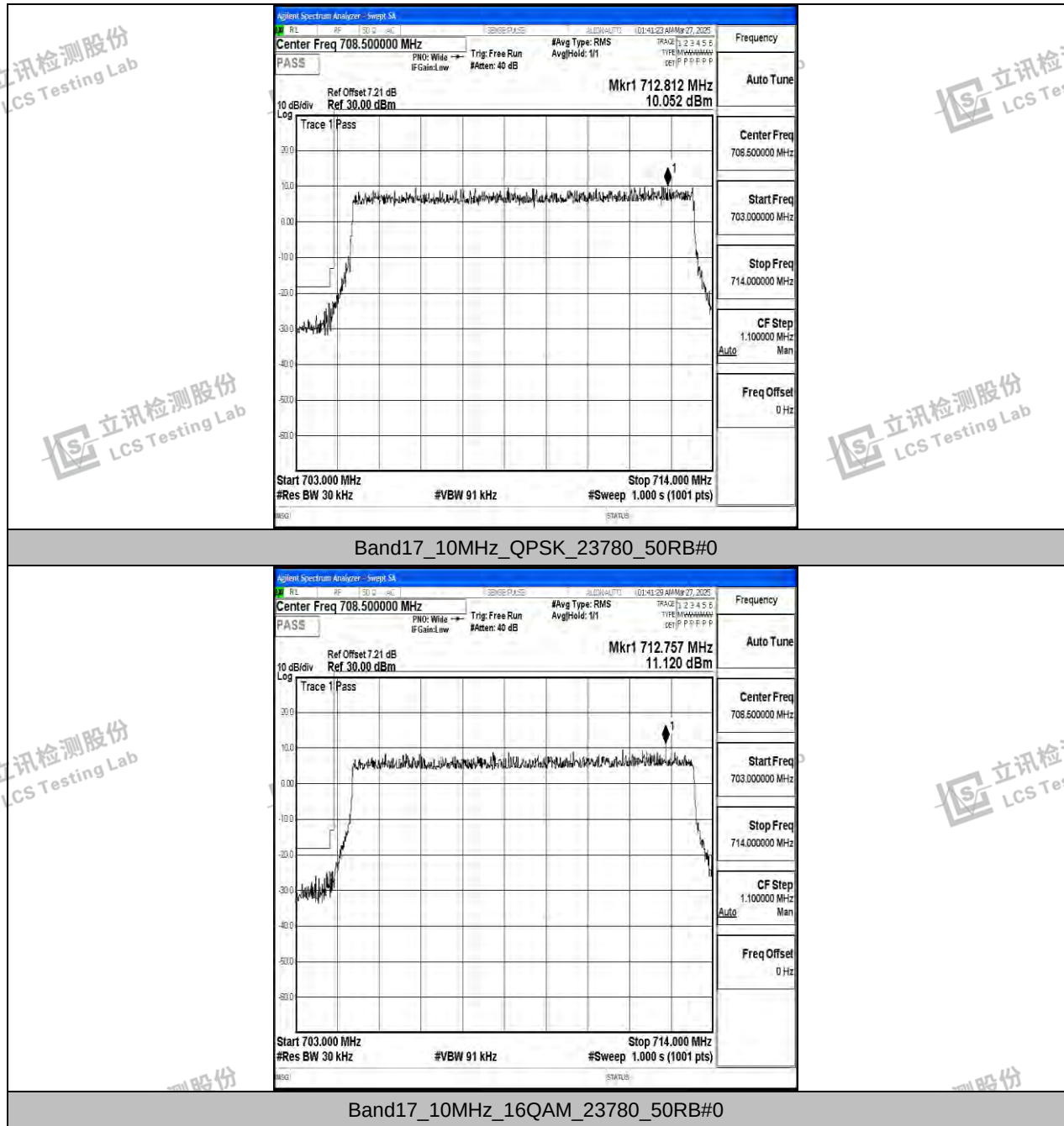
N.4 Band Edge

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Peak Frequency	Result(dBm)	Verdict
Band17	5MHz	QPSK	23755	25RB#0	703.69	-23.35	PASS
Band17	10MHz	QPSK	23780	50RB#0	703.88	-22.72	PASS
Band17	10MHz	16QAM	23780	50RB#0	703.89	-24.64	PASS
Band17	5MHz	16QAM	23755	25RB#0	703.98	-15.04	PASS
Band17	5MHz	QPSK	23825	25RB#0	716.01	-18.35	PASS
Band17	5MHz	16QAM	23825	25RB#0	716.15	-24.14	PASS
Band17	10MHz	QPSK	23800	50RB#0	716.18	-21.97	PASS
Band17	10MHz	16QAM	23800	50RB#0	716.13	-21.42	PASS

Test Graphs



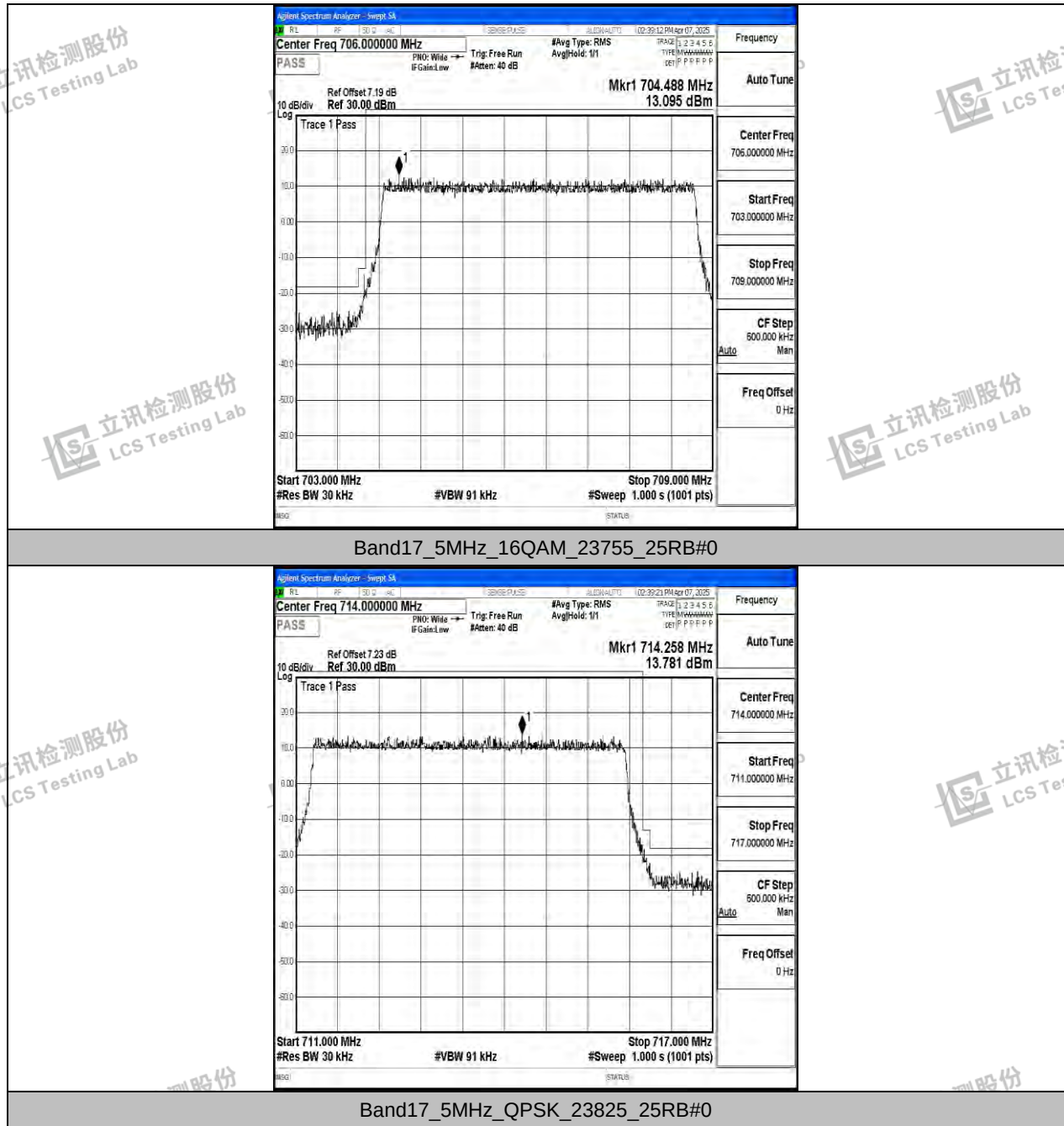


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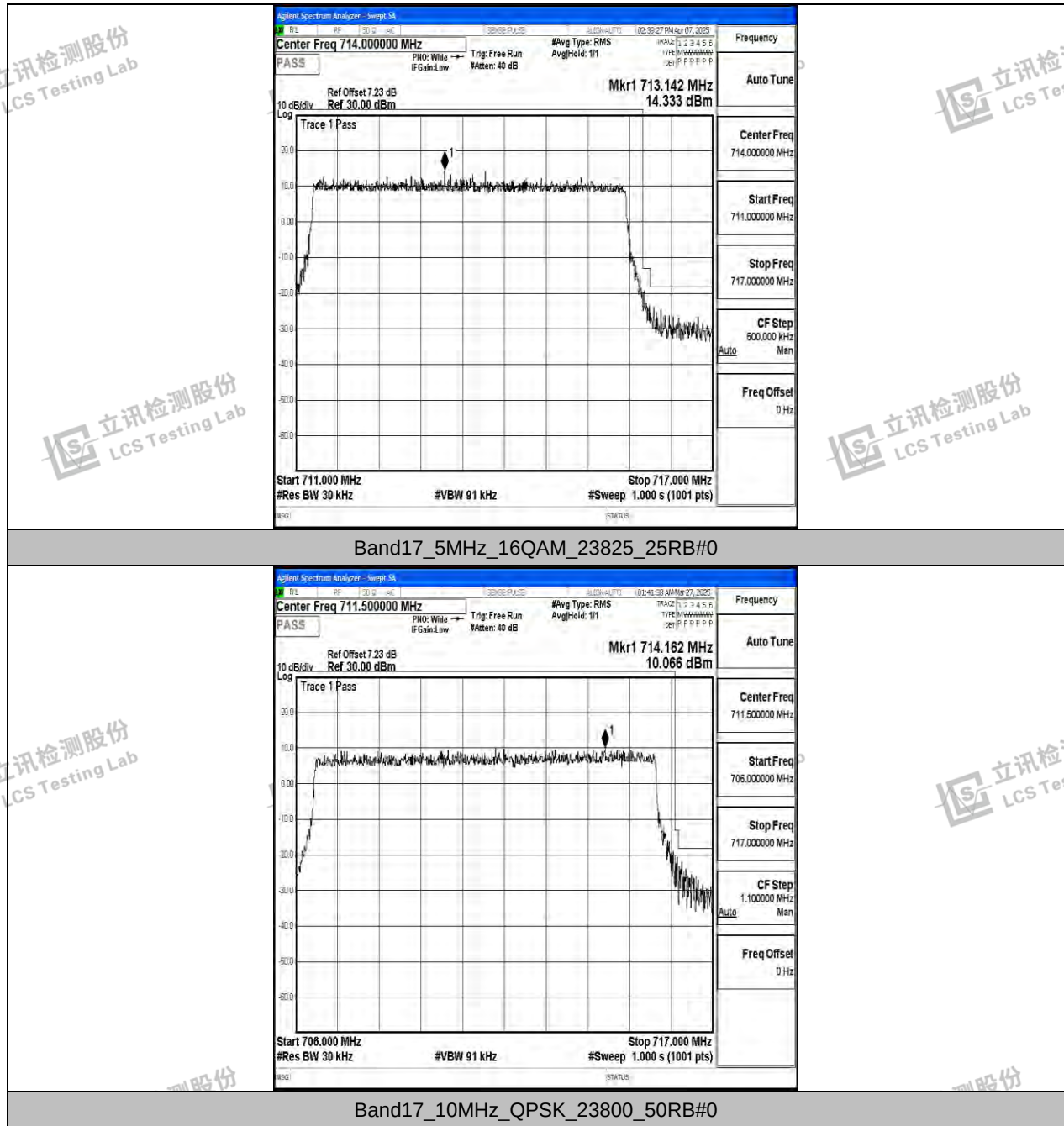


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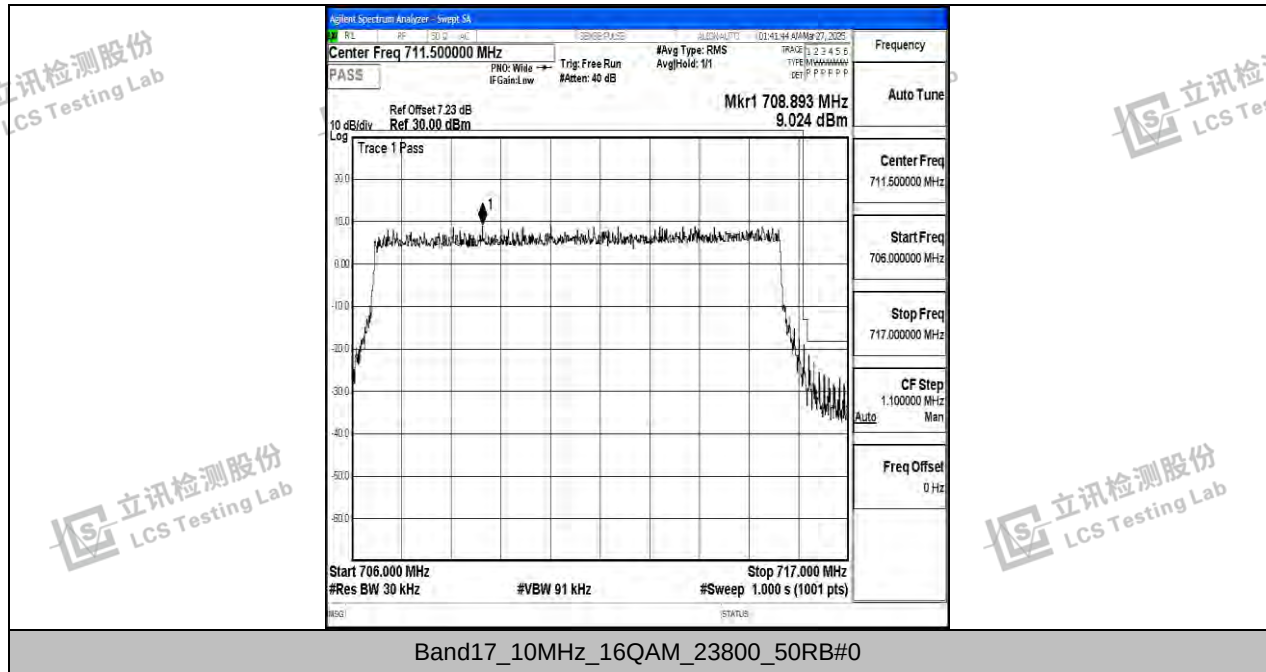


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N.5 Conducted Spurious Emission

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Frequency Range	Result (dBm)	Verdict
Band17	5MHz	QPSK	23755	1RB#0	0.009~0.15	-58.36	PASS
Band17	5MHz	QPSK	23755	1RB#0	0.15~30	-47.91	PASS
Band17	5MHz	QPSK	23755	1RB#0	30~1000	-41.49	PASS
Band17	5MHz	QPSK	23755	1RB#0	1000~3000	-35.35	PASS
Band17	5MHz	QPSK	23755	1RB#0	3000~10000	-34.85	PASS
Band17	5MHz	16QAM	23755	1RB#0	0.009~0.15	-56.29	PASS
Band17	5MHz	16QAM	23755	1RB#0	0.15~30	-47.36	PASS
Band17	5MHz	16QAM	23755	1RB#0	30~1000	-40.24	PASS
Band17	5MHz	16QAM	23755	1RB#0	1000~3000	-36.17	PASS
Band17	5MHz	16QAM	23755	1RB#0	3000~10000	-34.74	PASS
Band17	5MHz	QPSK	23790	1RB#0	0.009~0.15	-56.14	PASS
Band17	5MHz	QPSK	23790	1RB#0	0.15~30	-45.10	PASS
Band17	5MHz	QPSK	23790	1RB#0	30~1000	-44.44	PASS
Band17	5MHz	QPSK	23790	1RB#0	1000~3000	-34.38	PASS
Band17	5MHz	QPSK	23790	1RB#0	3000~10000	-35.14	PASS
Band17	5MHz	16QAM	23790	1RB#0	0.009~0.15	-59.59	PASS
Band17	5MHz	16QAM	23790	1RB#0	0.15~30	-44.76	PASS
Band17	5MHz	16QAM	23790	1RB#0	30~1000	-41.39	PASS
Band17	5MHz	16QAM	23790	1RB#0	1000~3000	-33.79	PASS
Band17	5MHz	16QAM	23790	1RB#0	3000~10000	-34.87	PASS
Band17	5MHz	QPSK	23825	1RB#0	0.009~0.15	-58.11	PASS
Band17	5MHz	QPSK	23825	1RB#0	0.15~30	-47.35	PASS
Band17	5MHz	QPSK	23825	1RB#0	30~1000	-41.57	PASS
Band17	5MHz	QPSK	23825	1RB#0	1000~3000	-34.62	PASS
Band17	5MHz	QPSK	23825	1RB#0	3000~10000	-35.43	PASS
Band17	5MHz	16QAM	23825	1RB#0	0.009~0.15	-58.03	PASS
Band17	5MHz	16QAM	23825	1RB#0	0.15~30	-41.56	PASS
Band17	5MHz	16QAM	23825	1RB#0	30~1000	-44.59	PASS
Band17	5MHz	16QAM	23825	1RB#0	1000~3000	-33.87	PASS
Band17	5MHz	16QAM	23825	1RB#0	3000~10000	-35.72	PASS
Band17	10MHz	QPSK	23780	1RB#0	0.009~0.15	-59.11	PASS
Band17	10MHz	QPSK	23780	1RB#0	0.15~30	-47.63	PASS
Band17	10MHz	QPSK	23780	1RB#0	30~1000	-53.12	PASS
Band17	10MHz	QPSK	23780	1RB#0	1000~3000	-34.96	PASS
Band17	10MHz	QPSK	23780	1RB#0	3000~10000	-35.37	PASS
Band17	10MHz	16QAM	23780	1RB#0	0.009~0.15	-55.72	PASS



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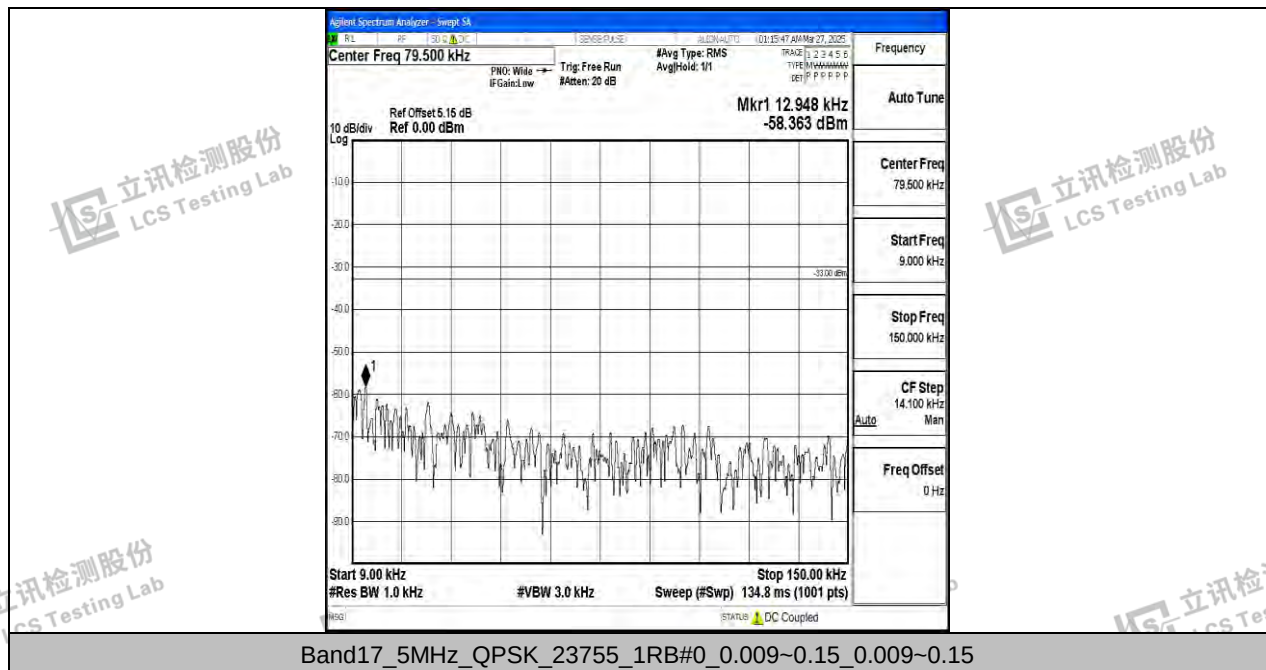
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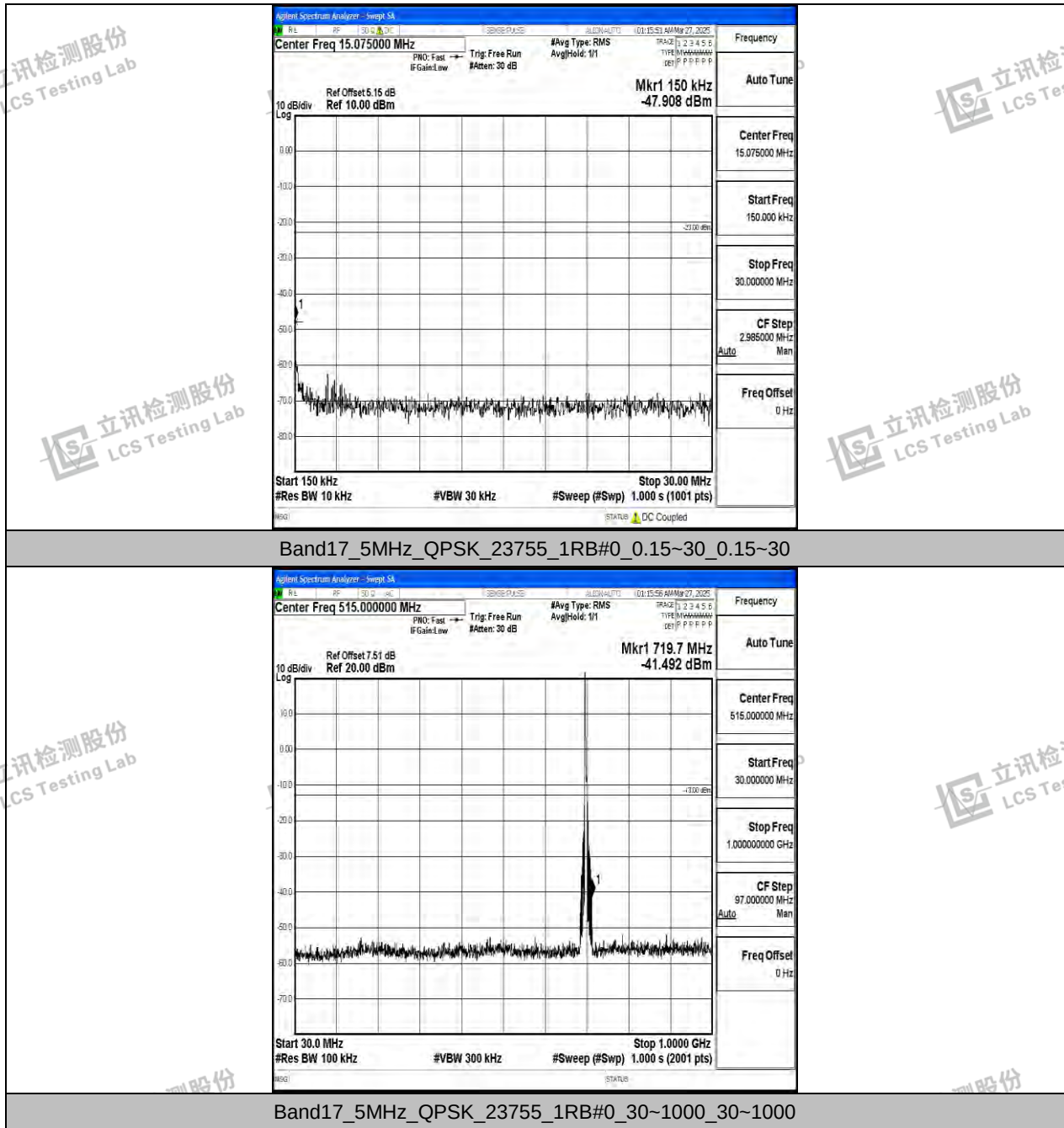
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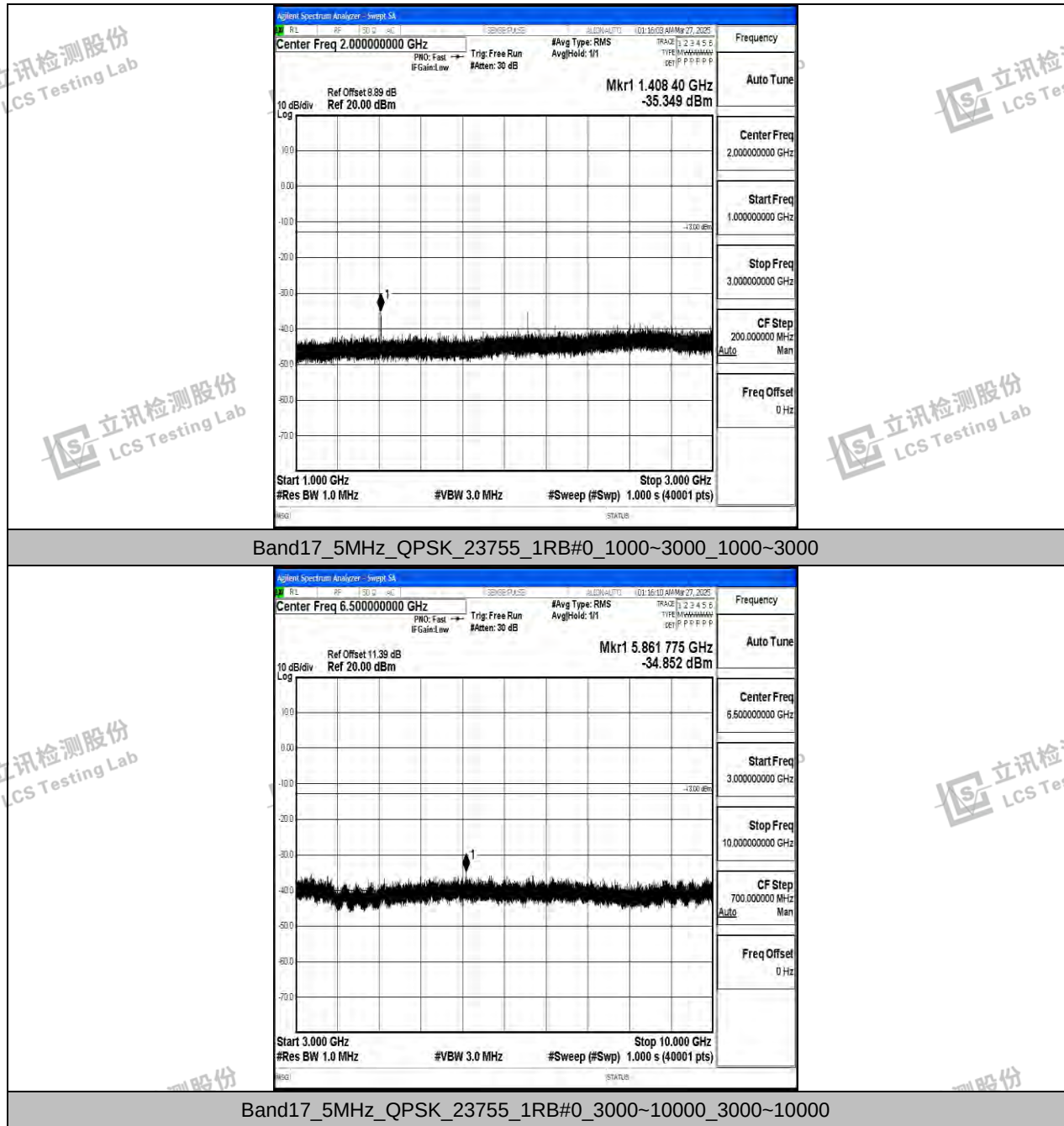


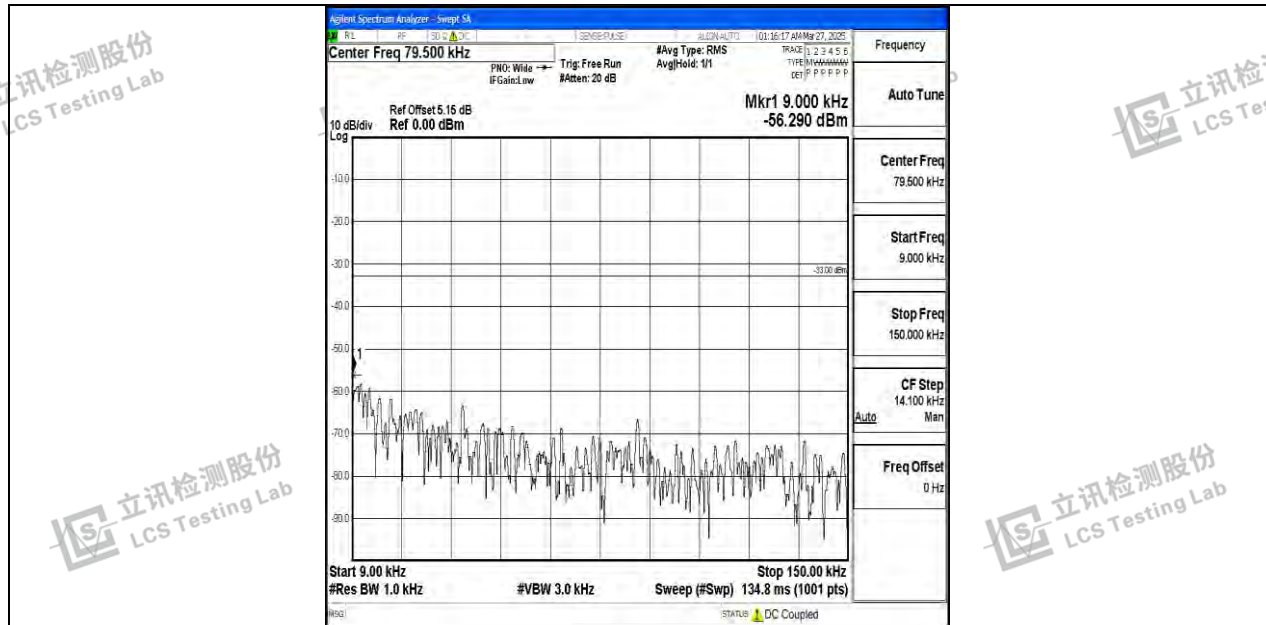
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Band17	10MHz	16QAM	23780	1RB#0	30~1000	-52.98	PASS
Band17	10MHz	16QAM	23780	1RB#0	1000~3000	-35.38	PASS
Band17	10MHz	16QAM	23780	1RB#0	3000~10000	-35.25	PASS
Band17	10MHz	QPSK	23790	1RB#0	0.009~0.15	-55.25	PASS
Band17	10MHz	QPSK	23790	1RB#0	0.15~30	-46.98	PASS
Band17	10MHz	QPSK	23790	1RB#0	30~1000	-52.88	PASS
Band17	10MHz	QPSK	23790	1RB#0	1000~3000	-34.90	PASS
Band17	10MHz	QPSK	23790	1RB#0	3000~10000	-35.46	PASS
Band17	10MHz	16QAM	23790	1RB#0	0.009~0.15	-55.32	PASS
Band17	10MHz	16QAM	23790	1RB#0	0.15~30	-46.54	PASS
Band17	10MHz	16QAM	23790	1RB#0	30~1000	-53.26	PASS
Band17	10MHz	16QAM	23790	1RB#0	1000~3000	-35.76	PASS
Band17	10MHz	16QAM	23790	1RB#0	3000~10000	-35.11	PASS
Band17	10MHz	QPSK	23800	1RB#0	0.009~0.15	-55.89	PASS
Band17	10MHz	QPSK	23800	1RB#0	0.15~30	-44.81	PASS
Band17	10MHz	QPSK	23800	1RB#0	30~1000	-53.49	PASS
Band17	10MHz	QPSK	23800	1RB#0	1000~3000	-35.26	PASS
Band17	10MHz	QPSK	23800	1RB#0	3000~10000	-35.77	PASS
Band17	10MHz	16QAM	23800	1RB#0	0.009~0.15	-57.60	PASS
Band17	10MHz	16QAM	23800	1RB#0	0.15~30	-45.87	PASS
Band17	10MHz	16QAM	23800	1RB#0	30~1000	-52.90	PASS
Band17	10MHz	16QAM	23800	1RB#0	1000~3000	-35.00	PASS
Band17	10MHz	16QAM	23800	1RB#0	3000~10000	-35.01	PASS

Test Graphs

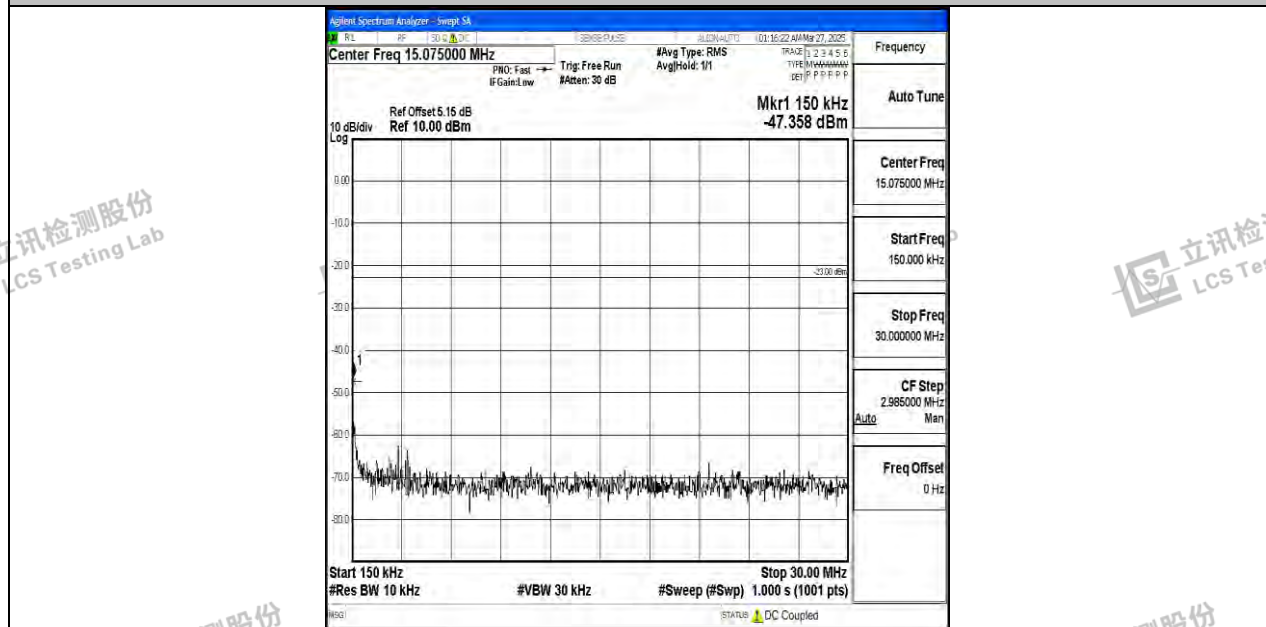






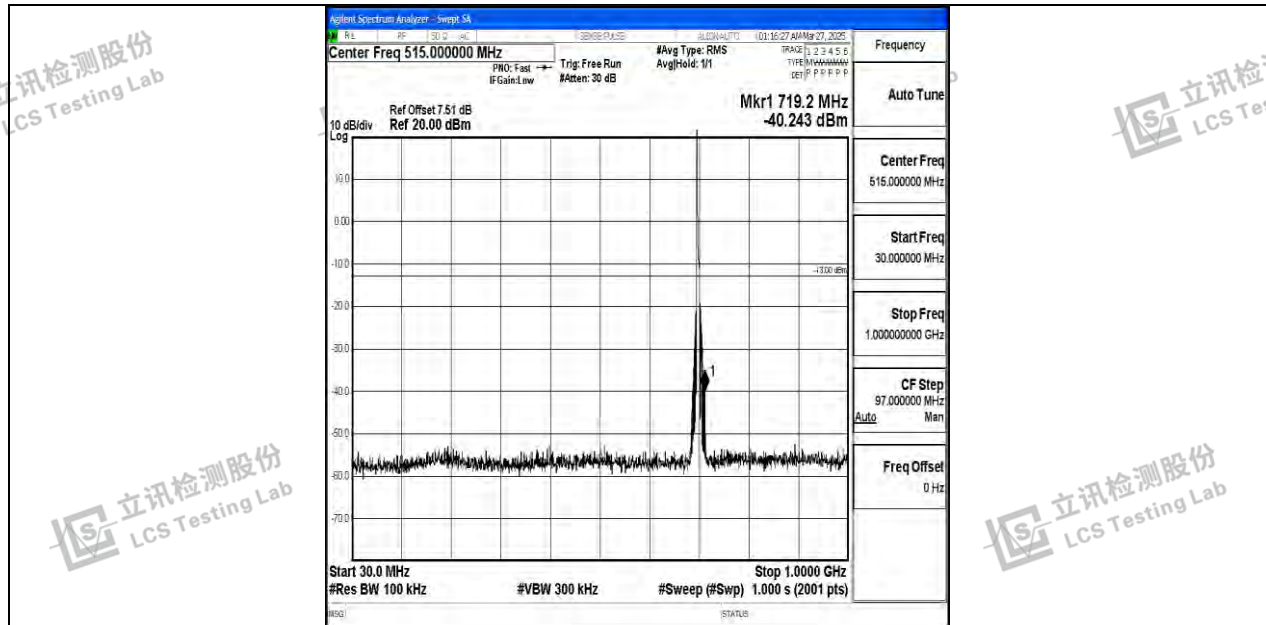


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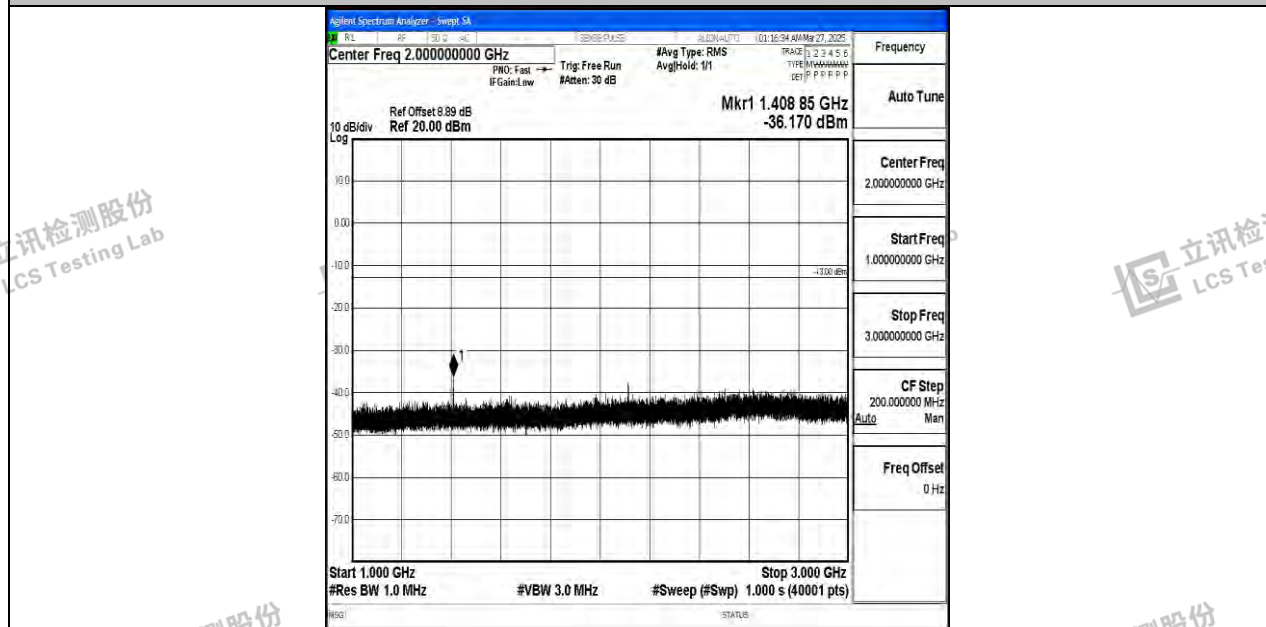


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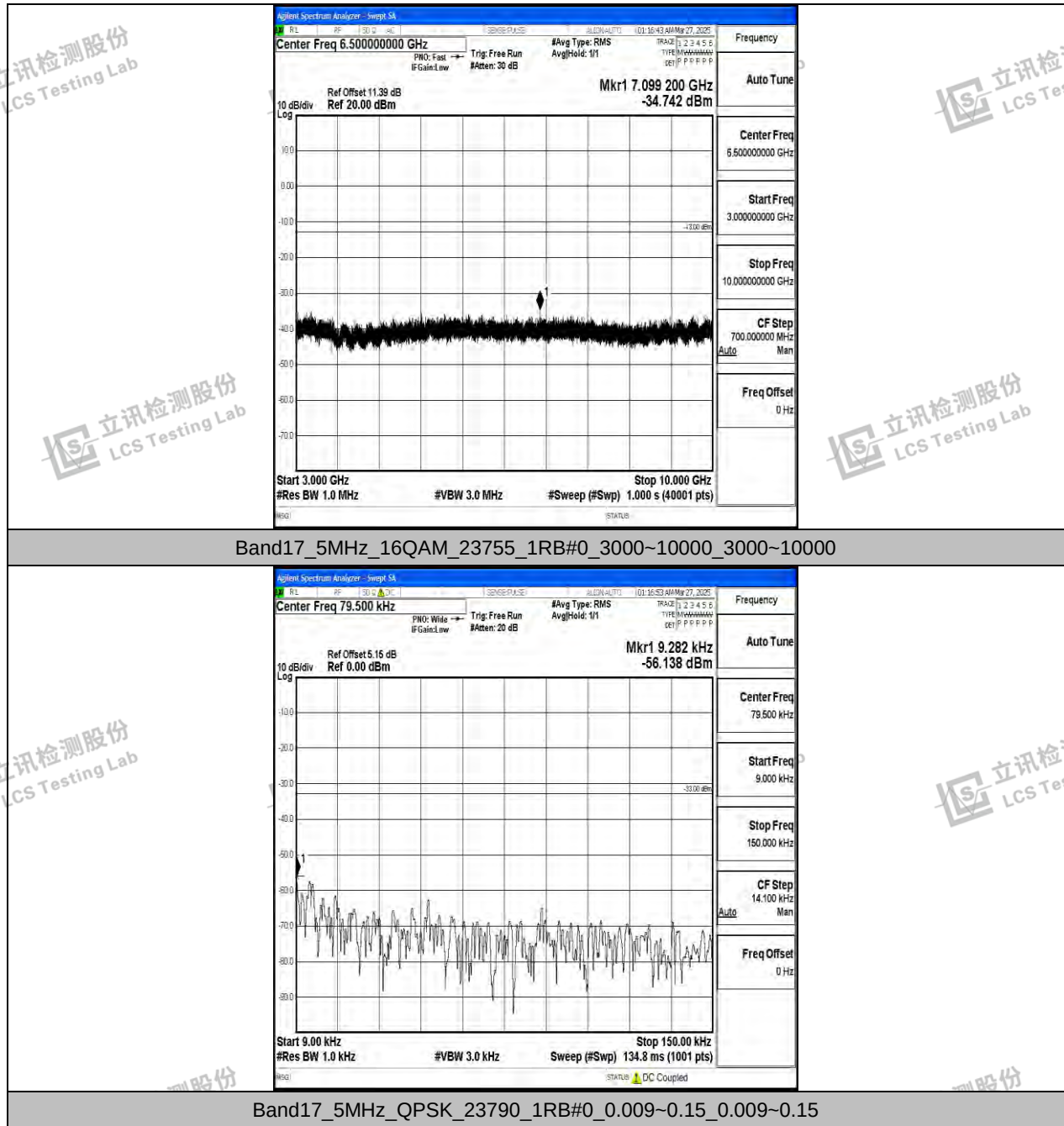


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Band17_5MHz_16QAM_23755_1RB#0_1000~3000_1000~3000



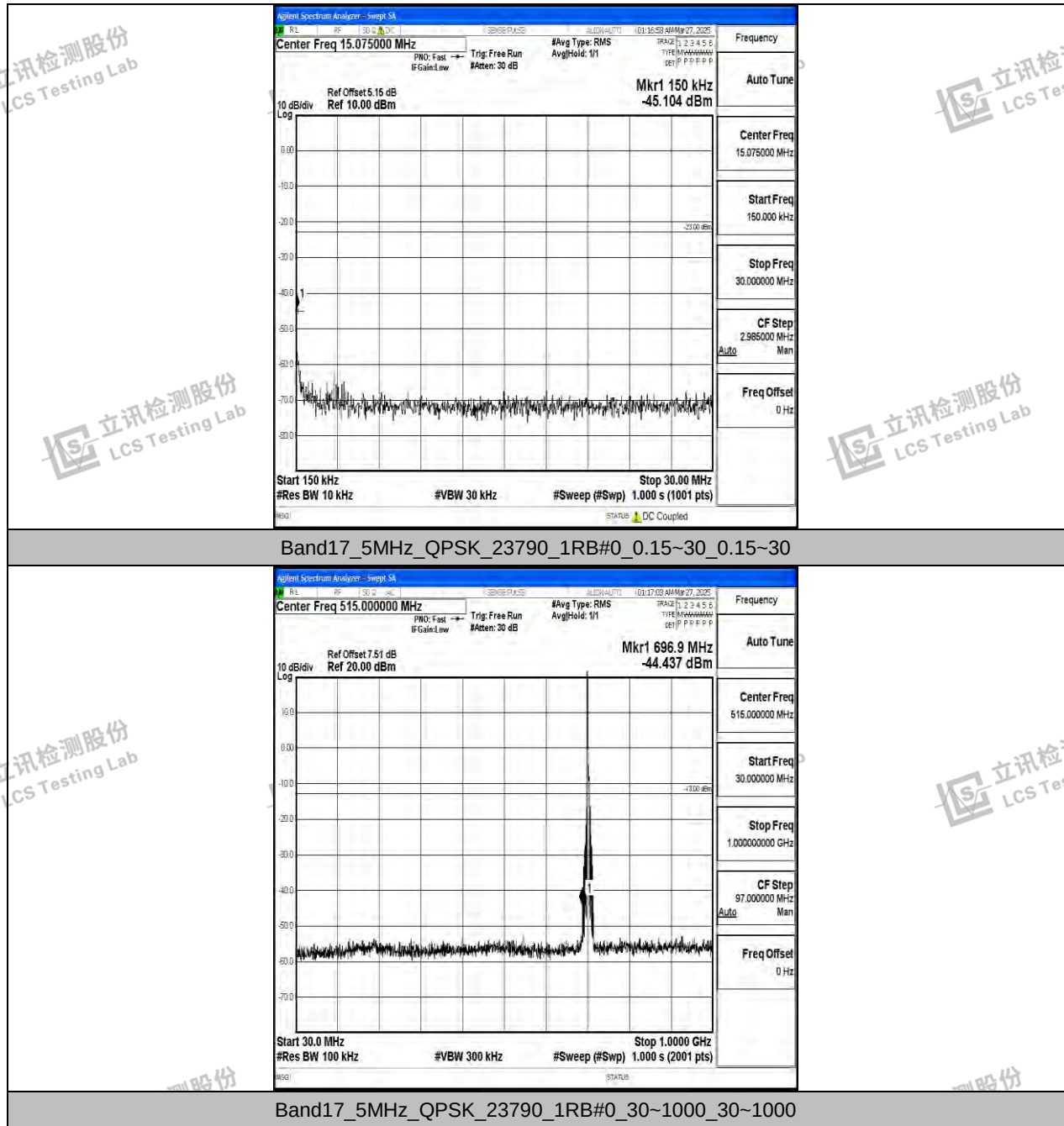


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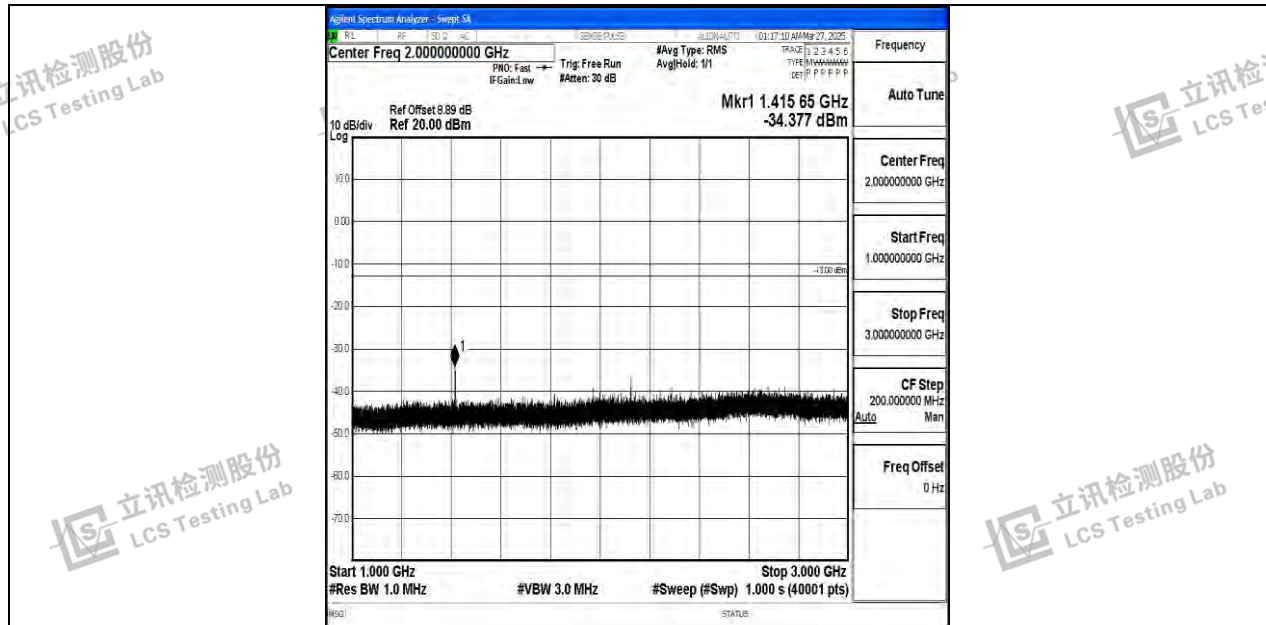


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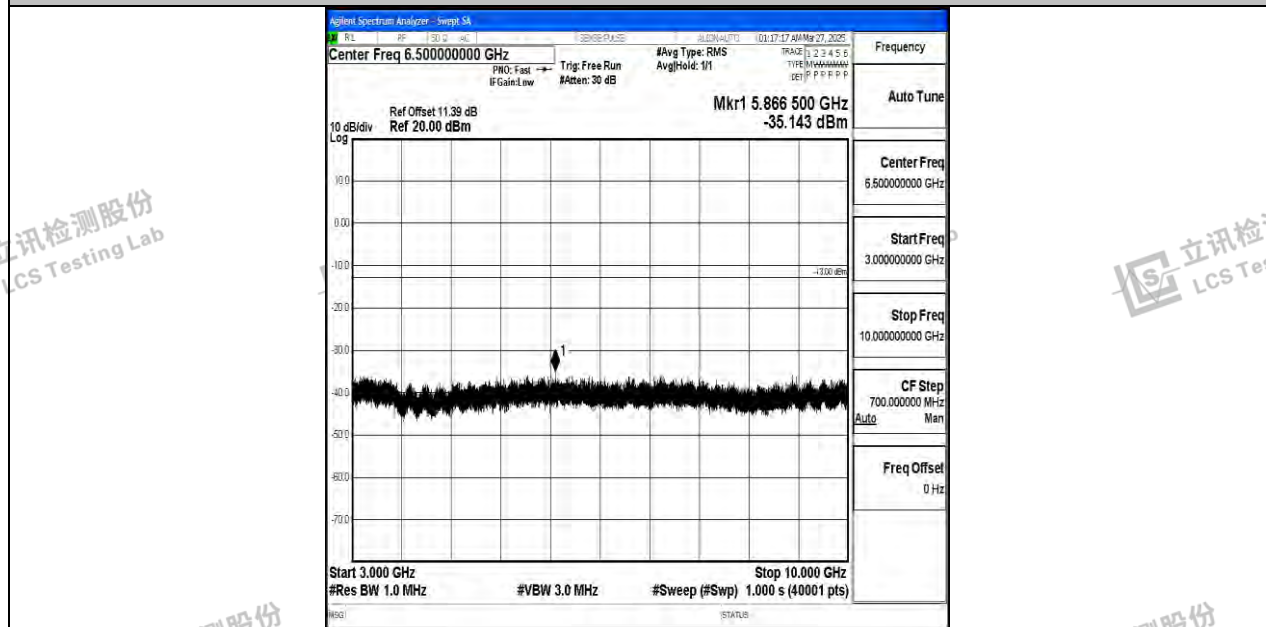
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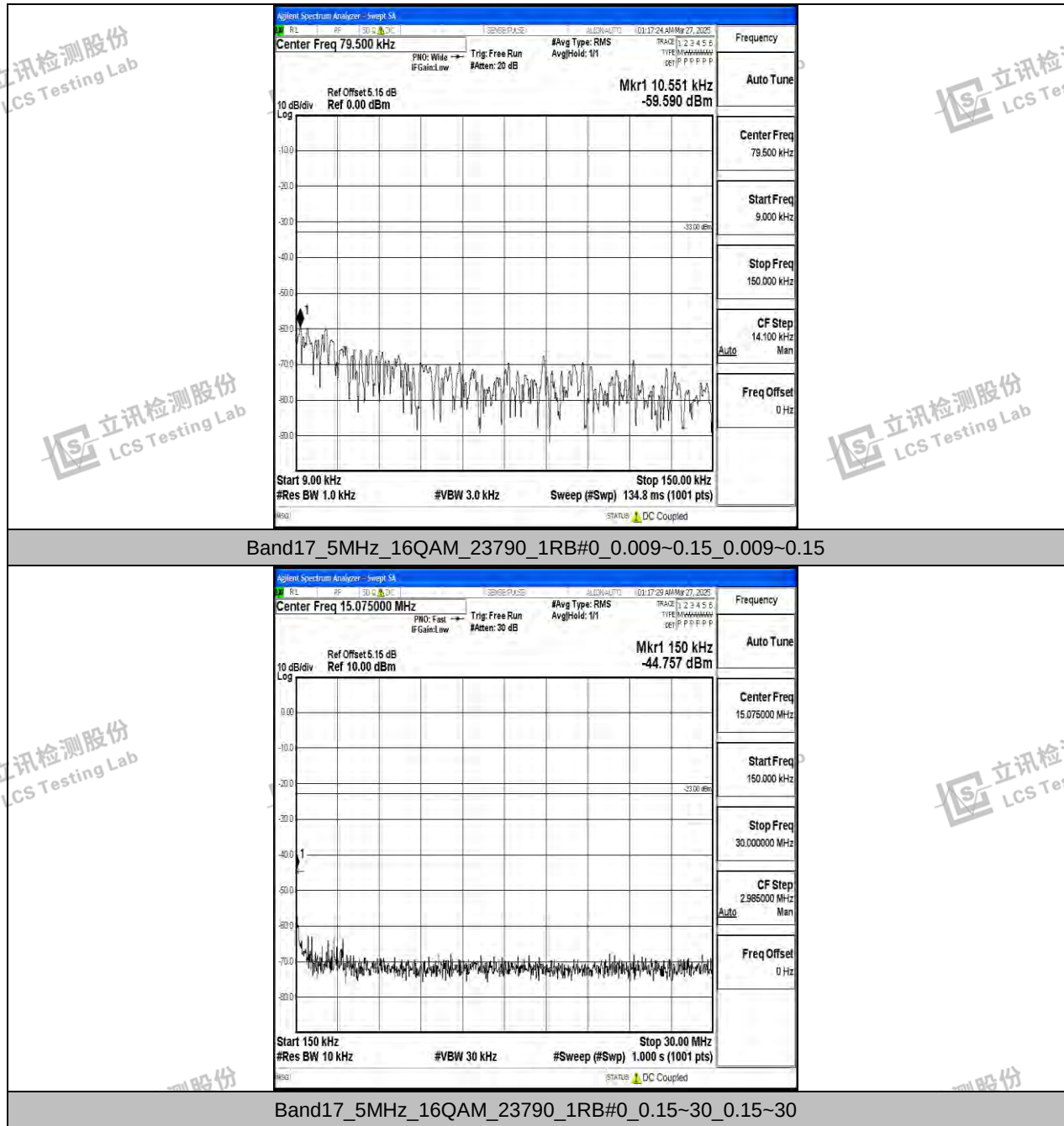


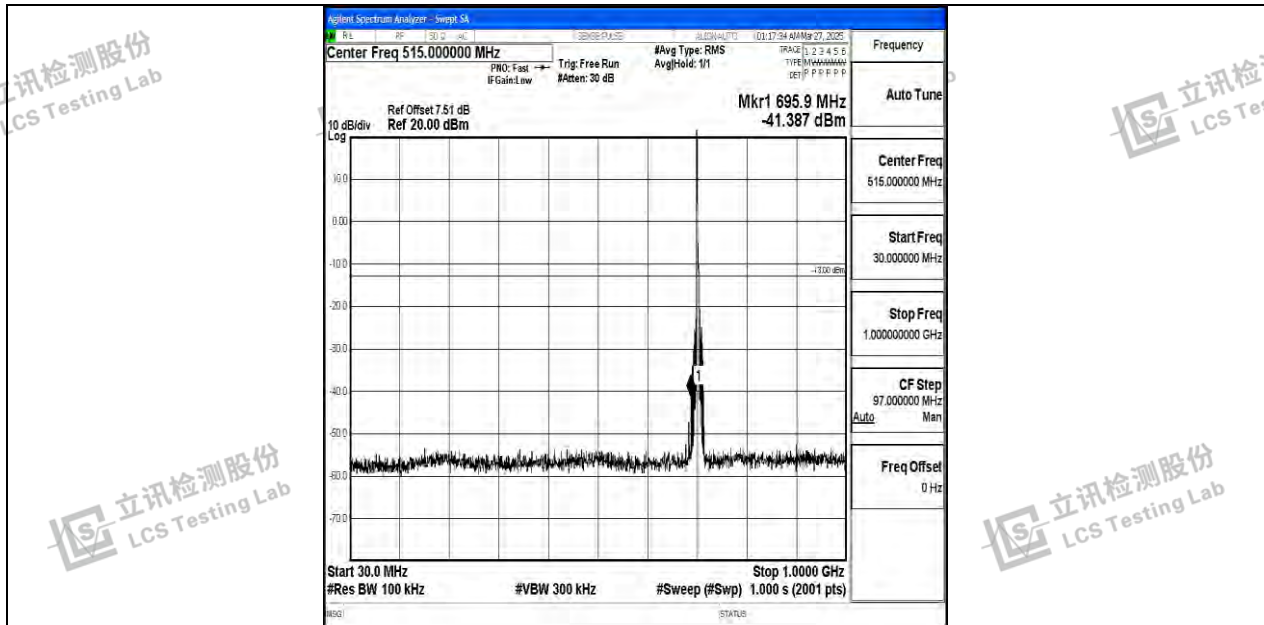
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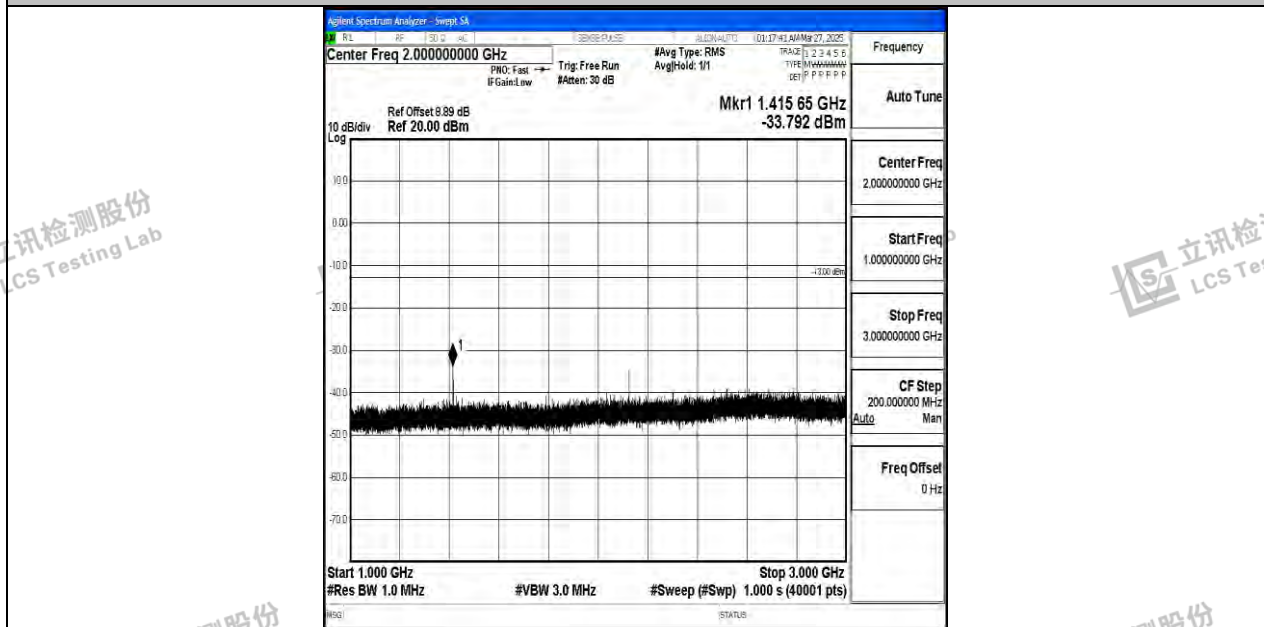
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Band17_5MHz_16QAM_23790_1RB#0_30~1000_30~1000



Band17_5MHz_16QAM_23790_1RB#0_1000~3000_1000~3000

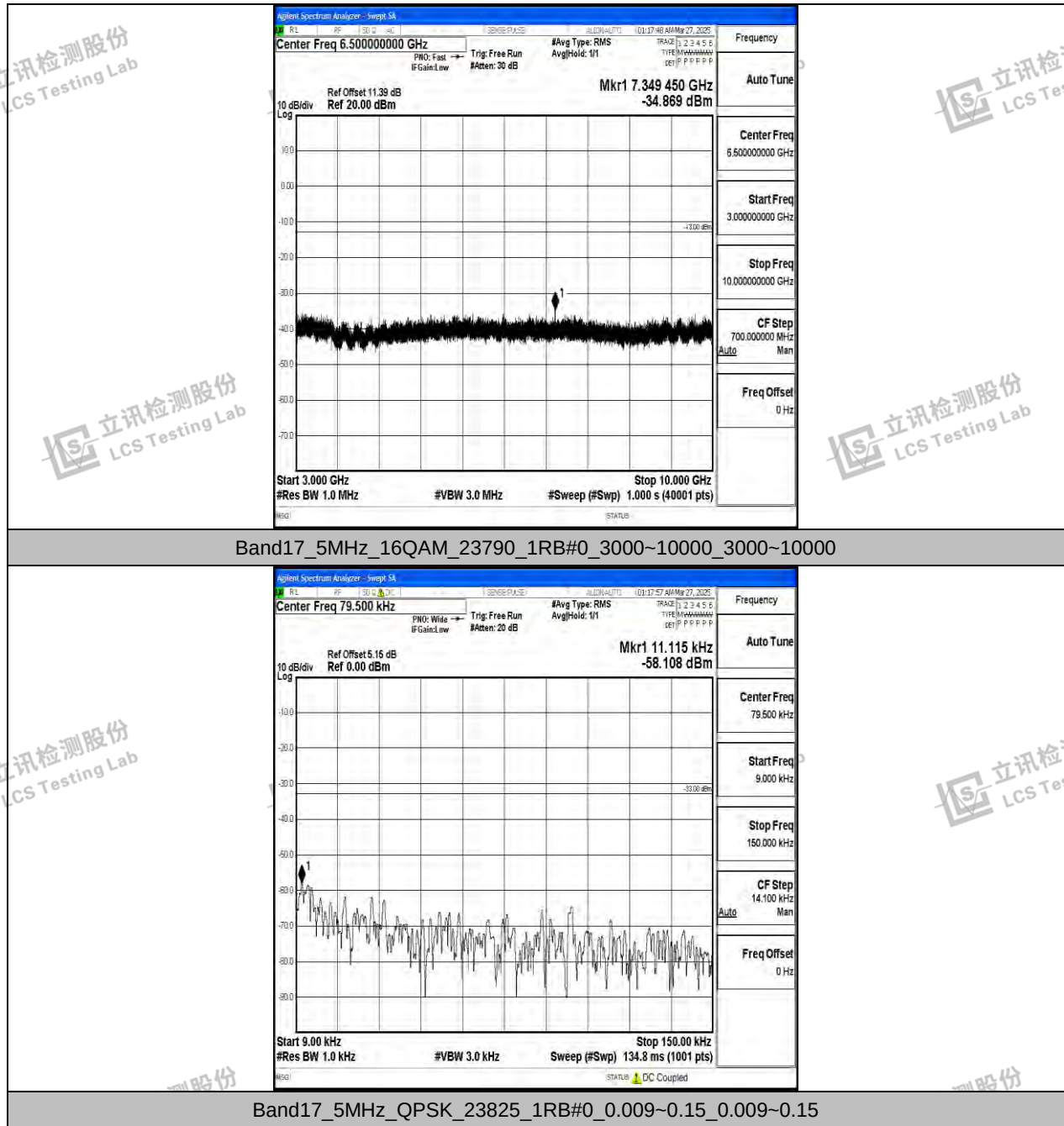


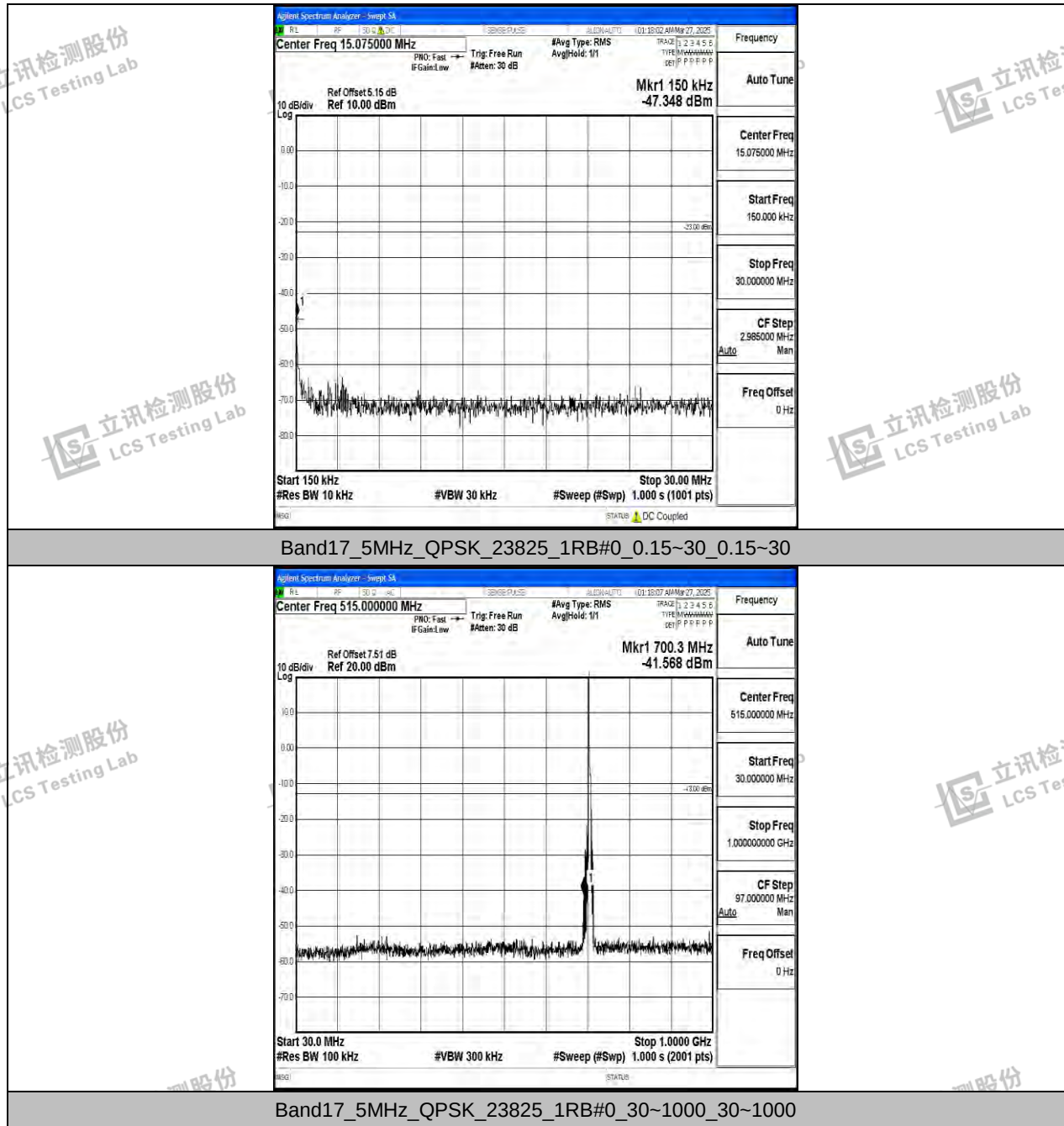
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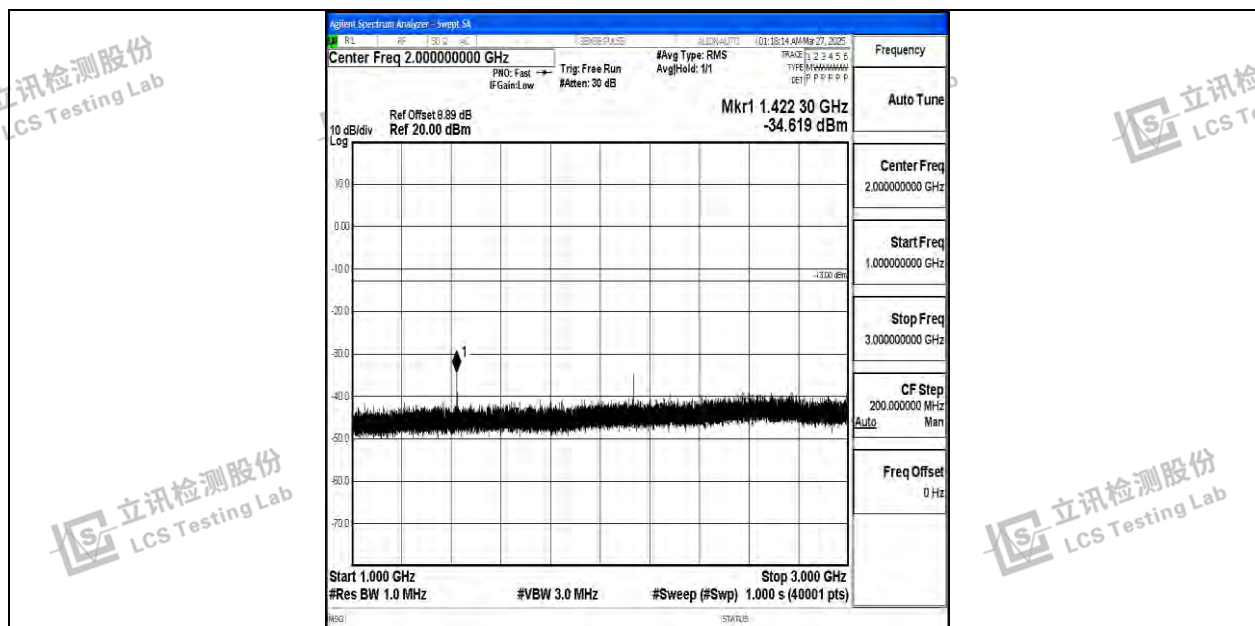
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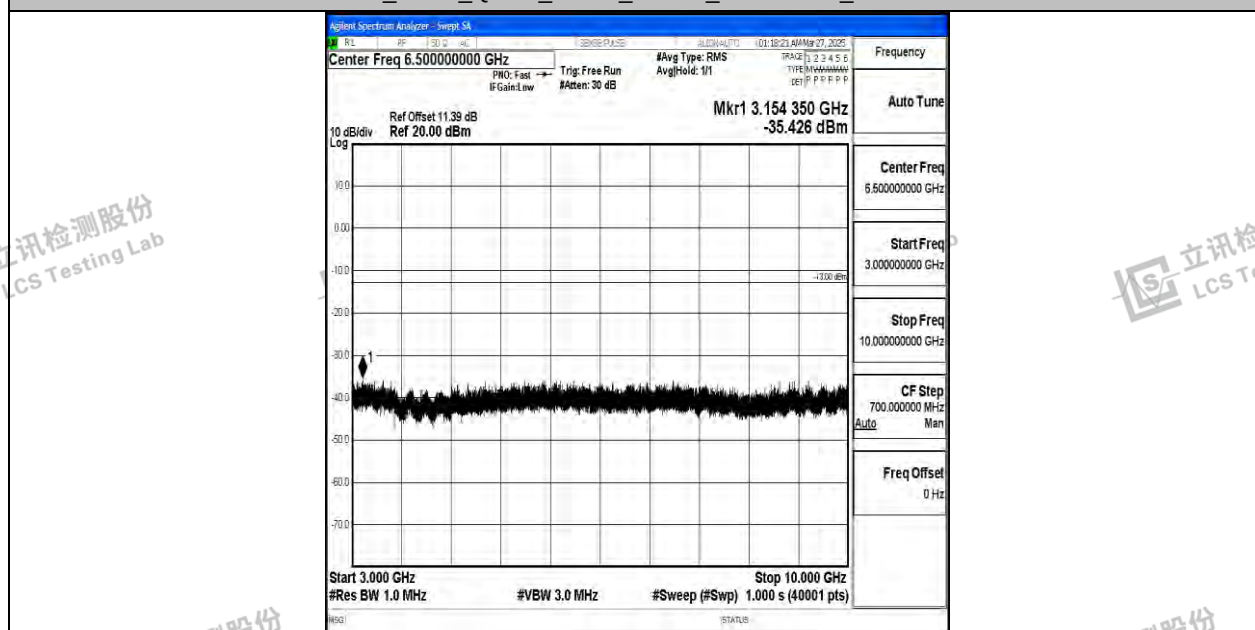
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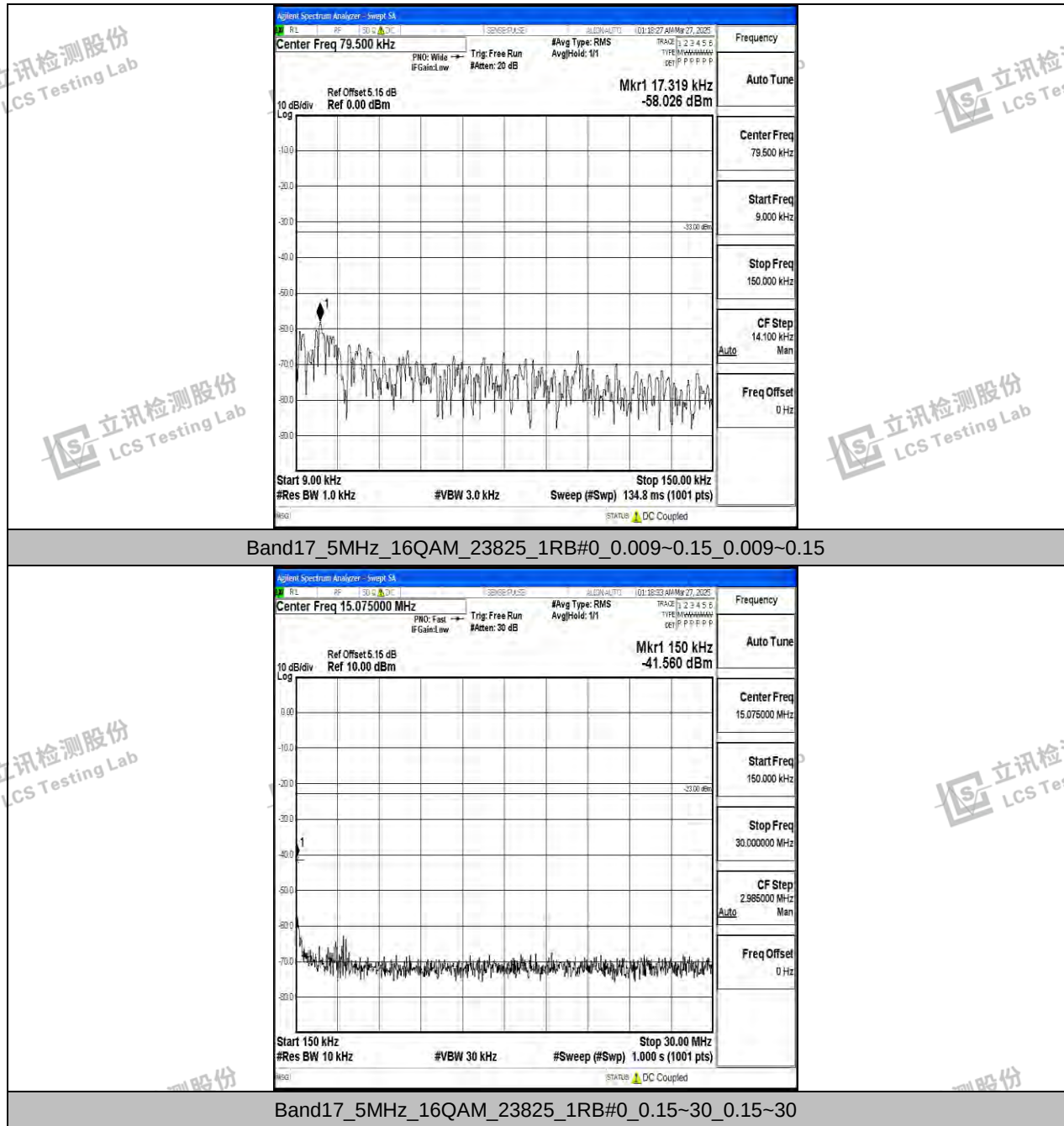
Band17 5MHz QPSK 23825 1RB#0 1000~3000 1000~3000



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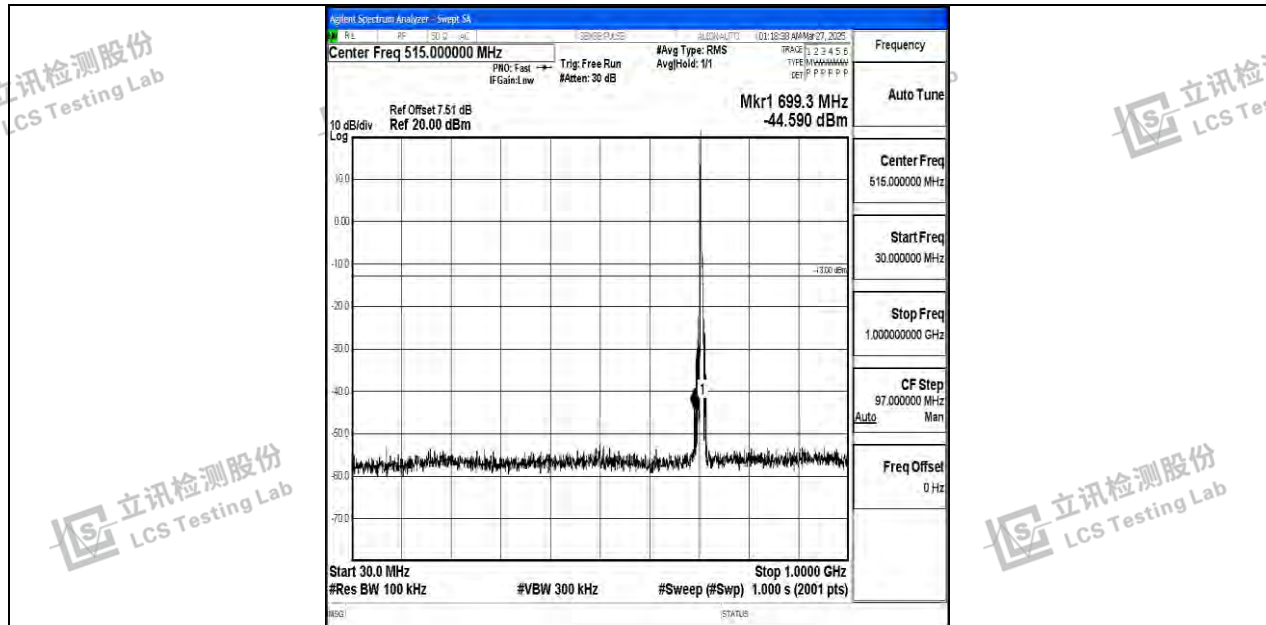


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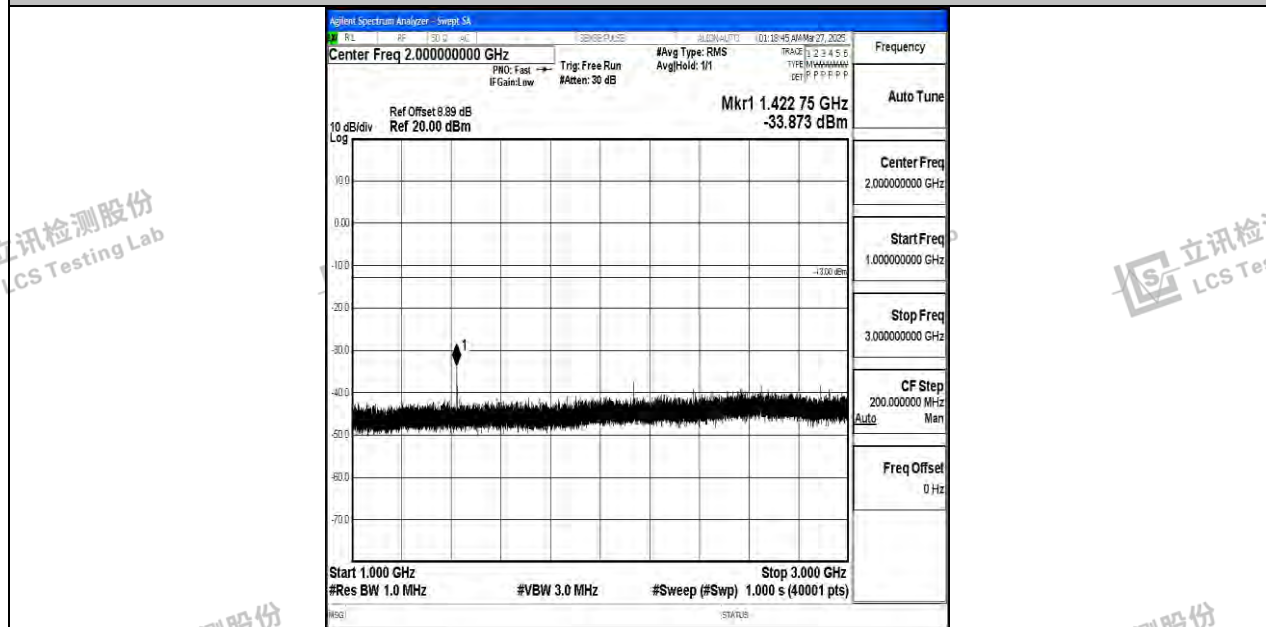
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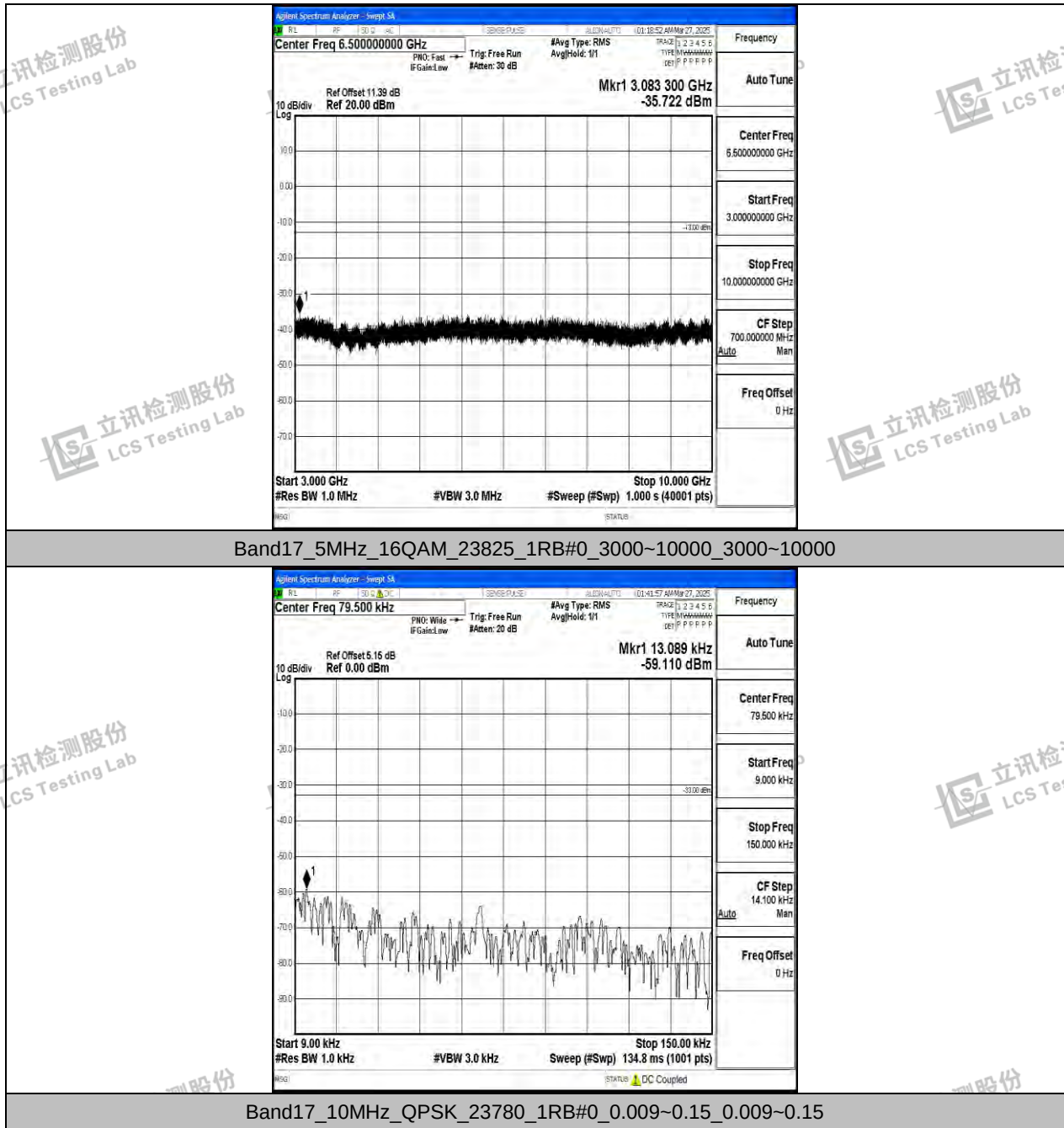


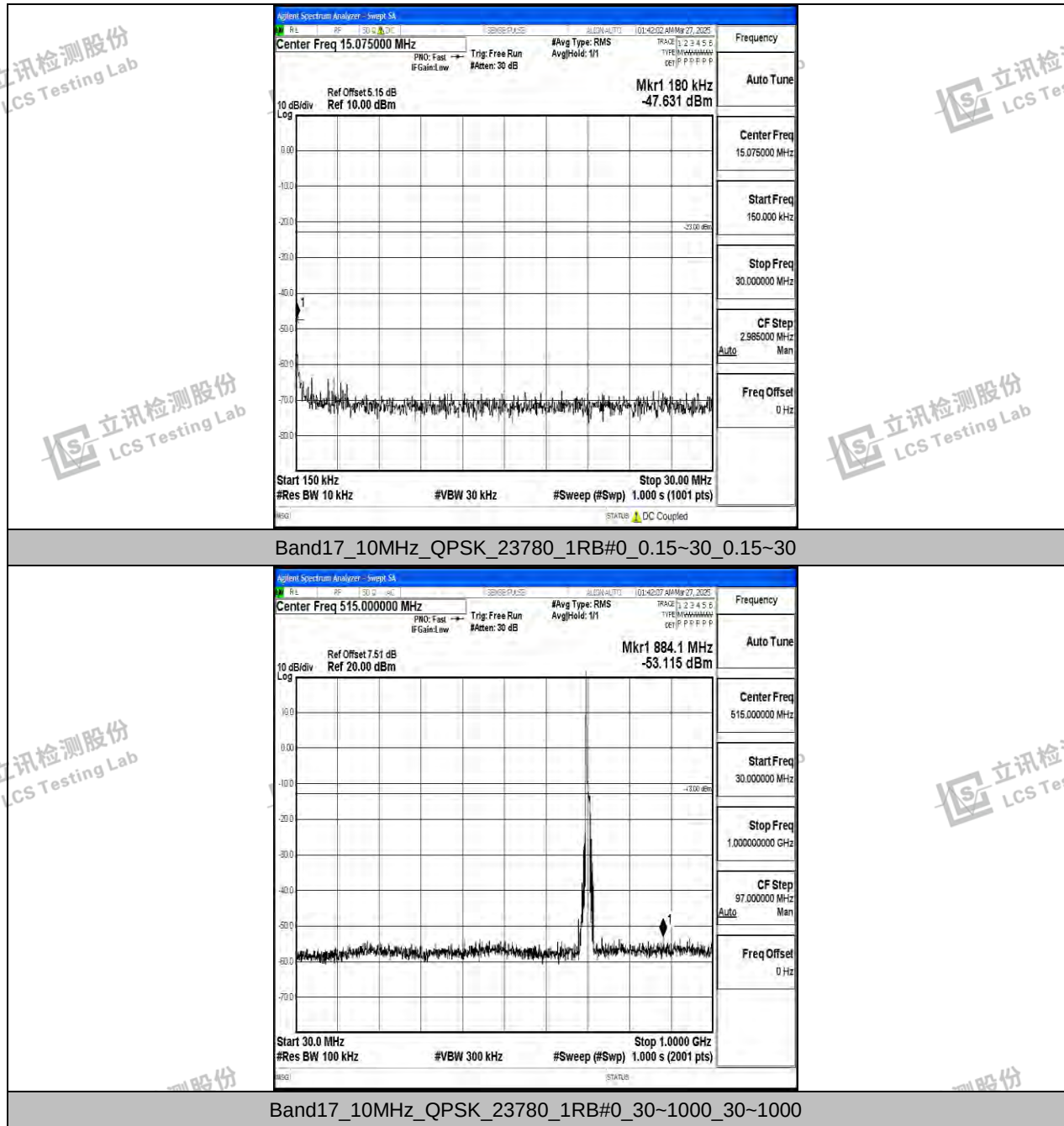
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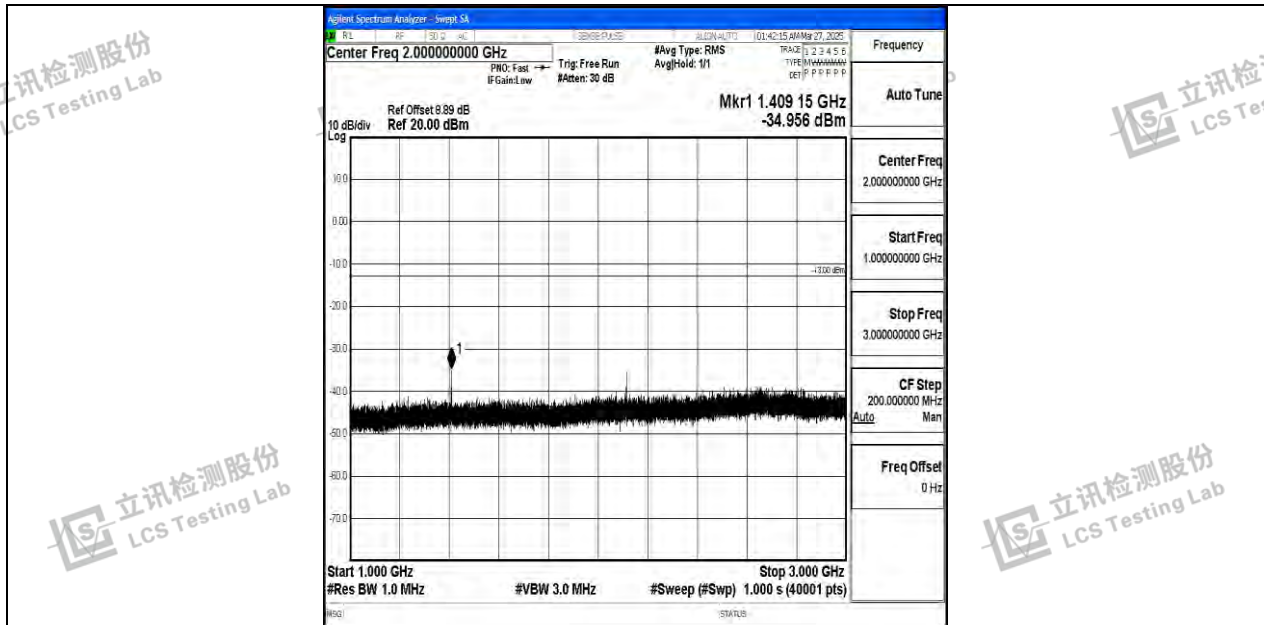


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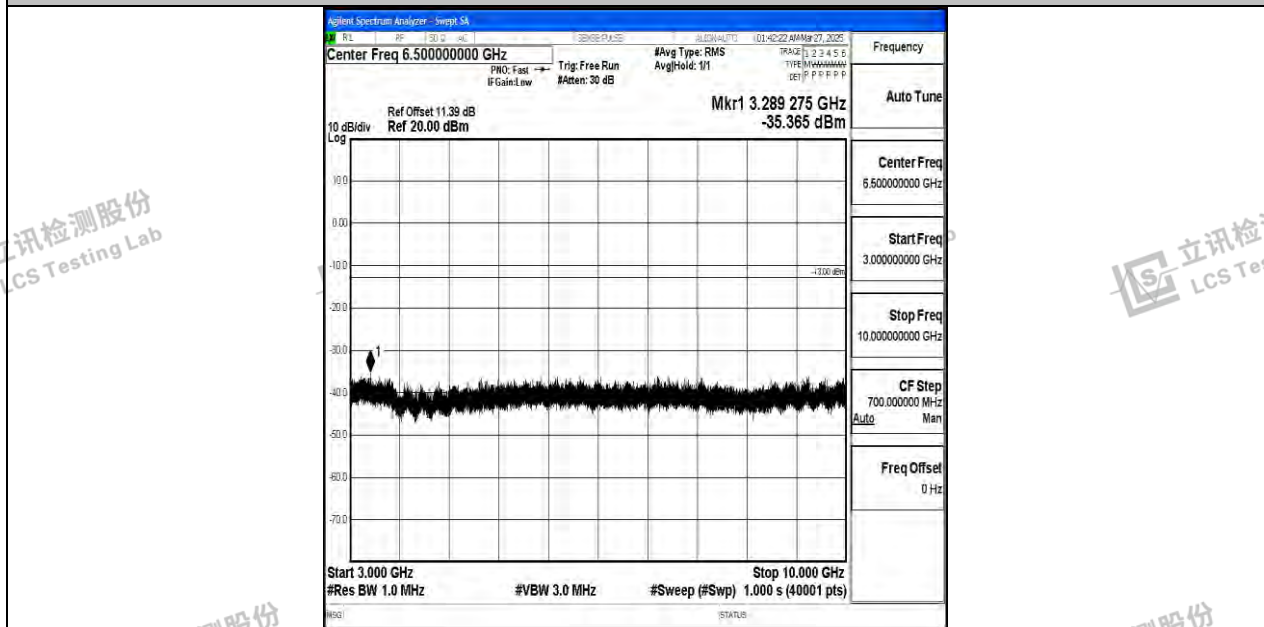








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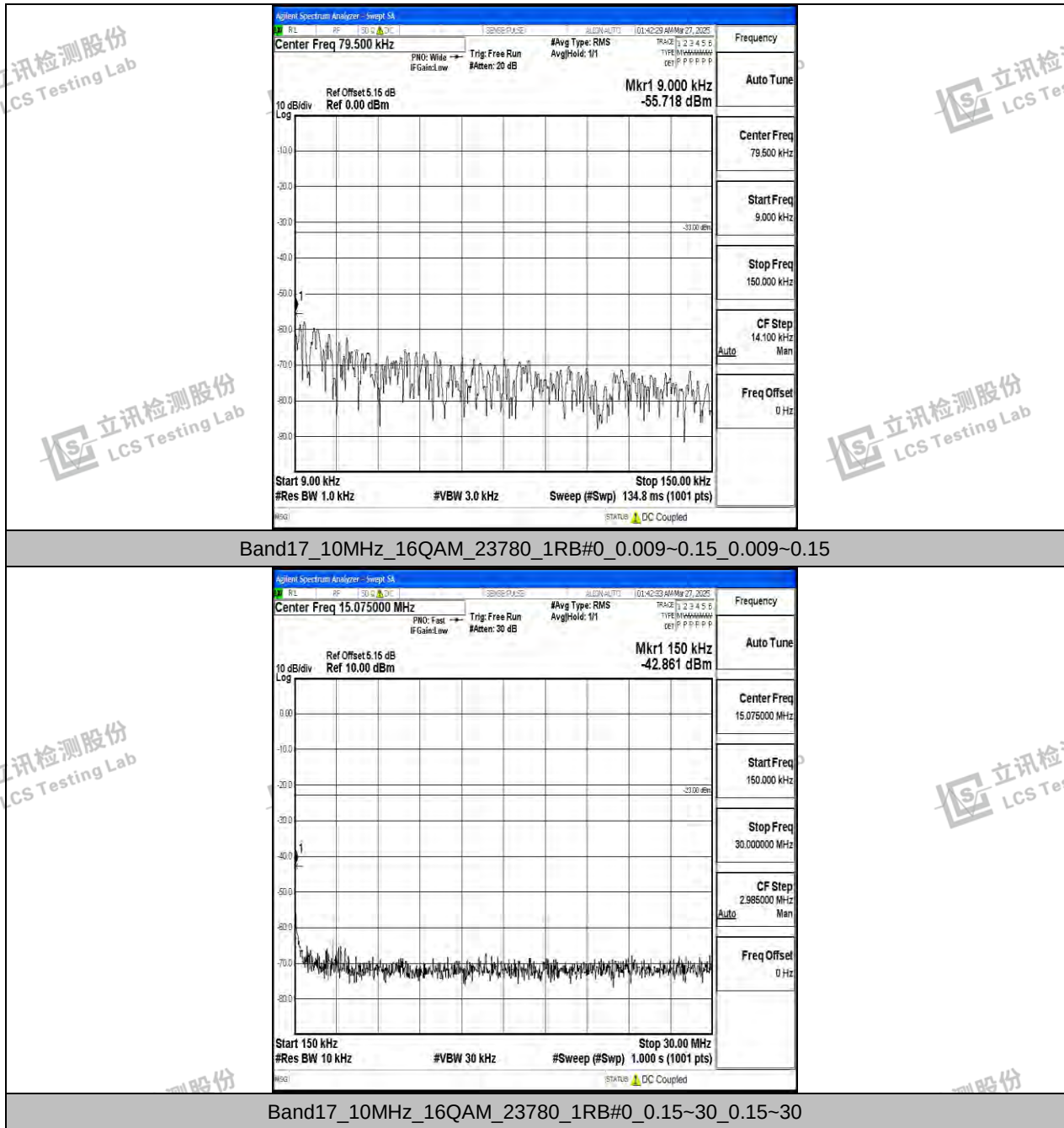


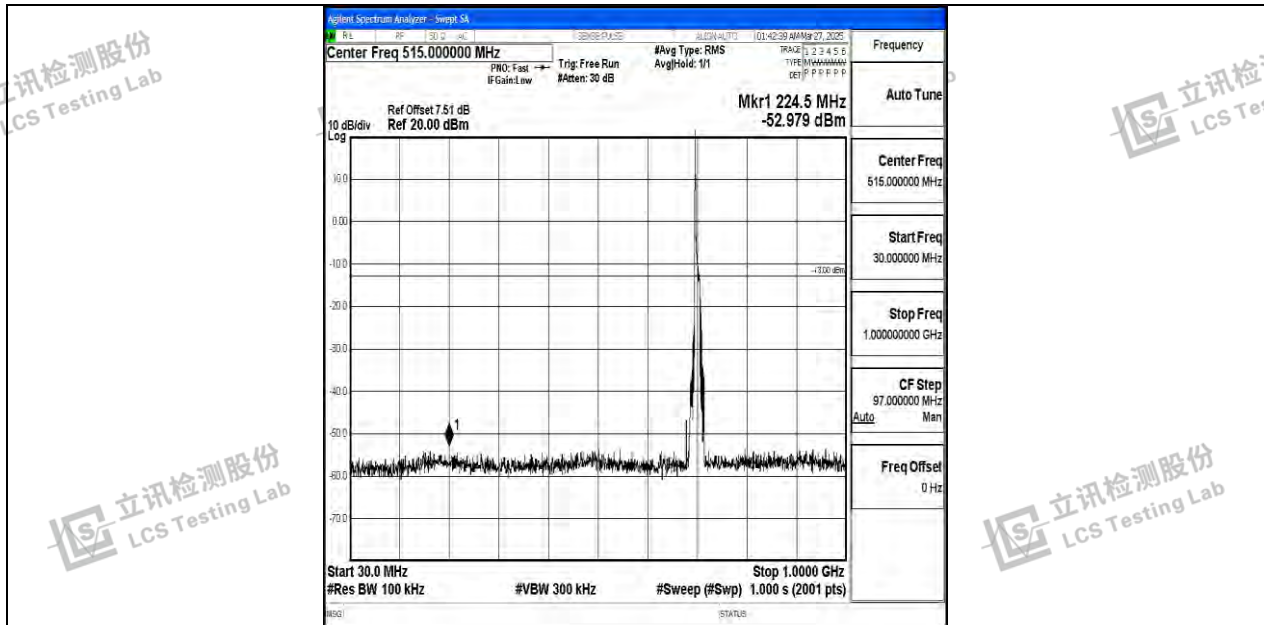
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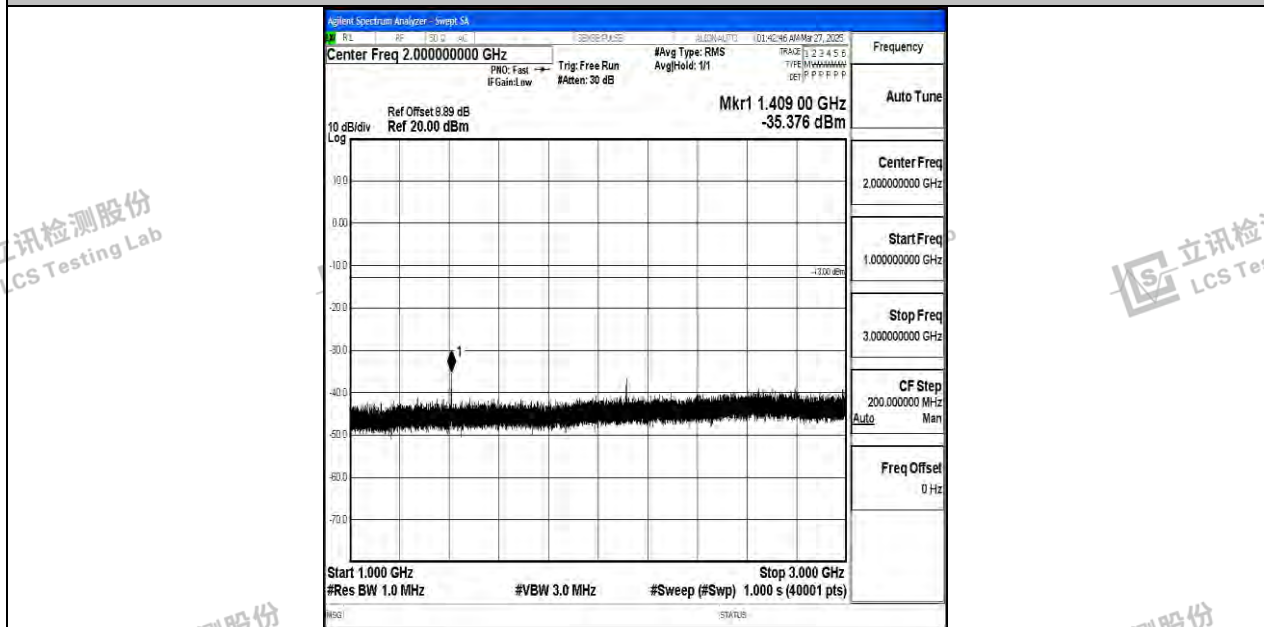
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Band17_10MHz_16QAM_23780_1RB#0_30~1000_30~1000



Band17_10MHz_16QAM_23780_1RB#0_1000~3000_1000~3000

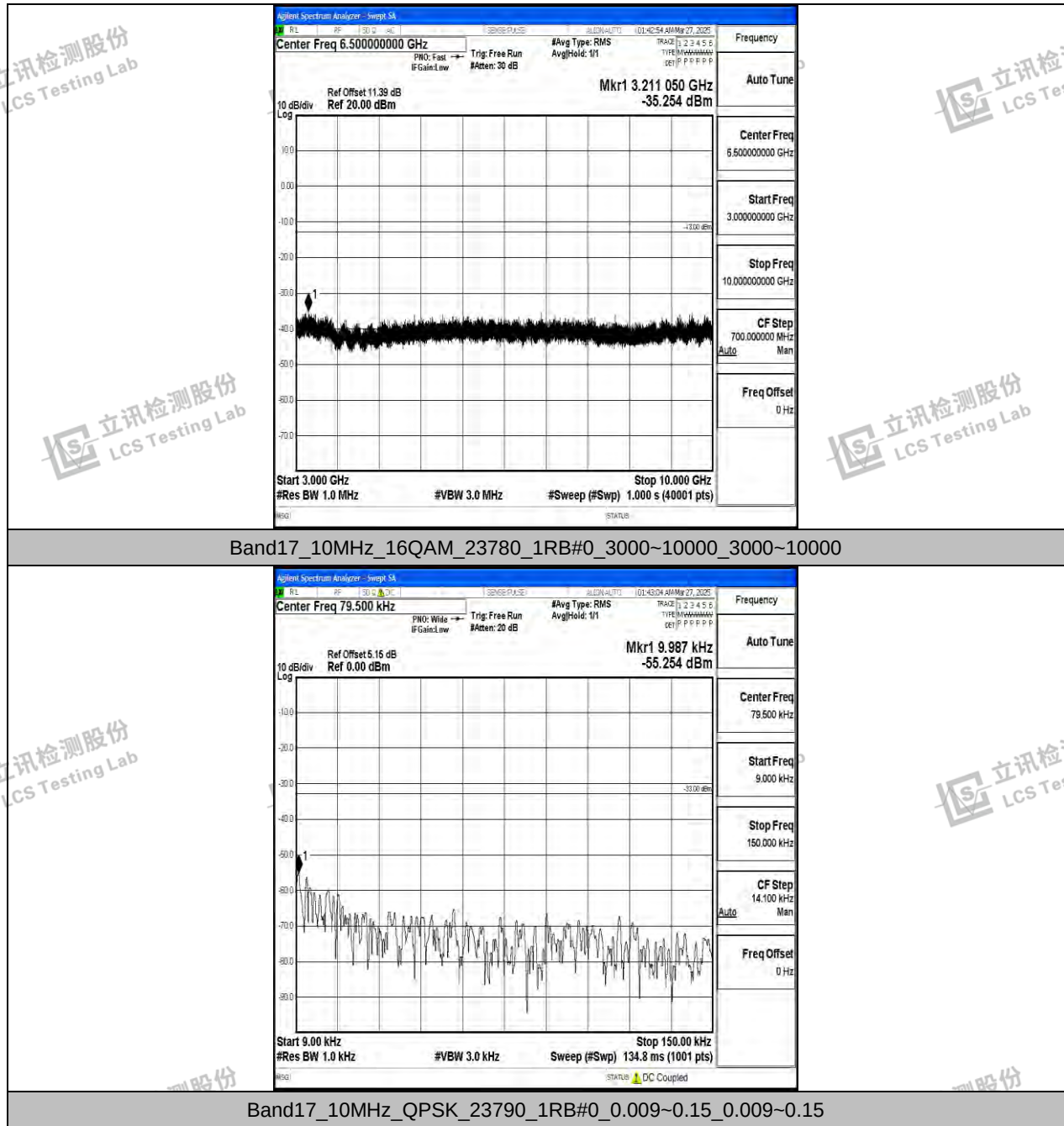


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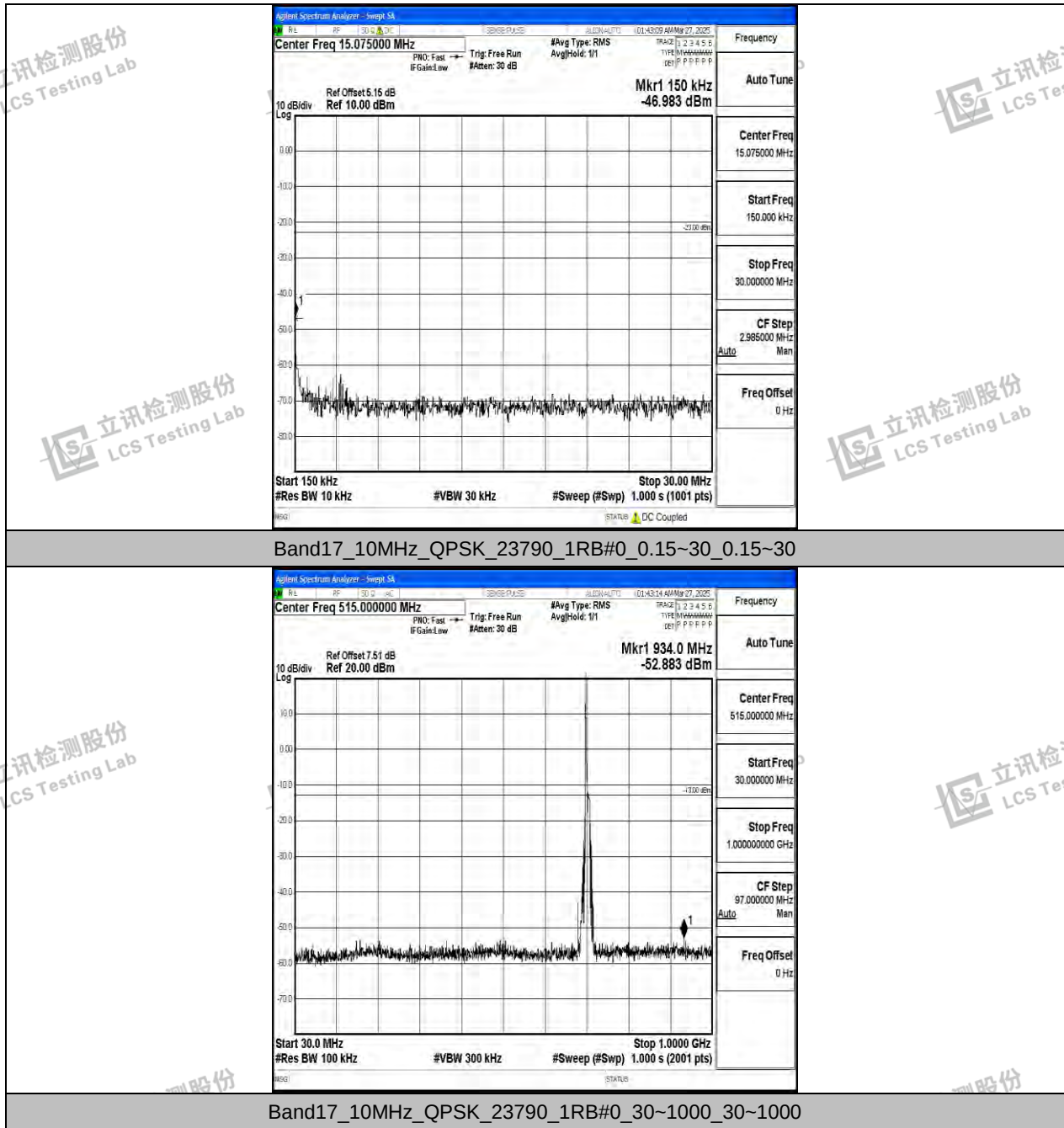


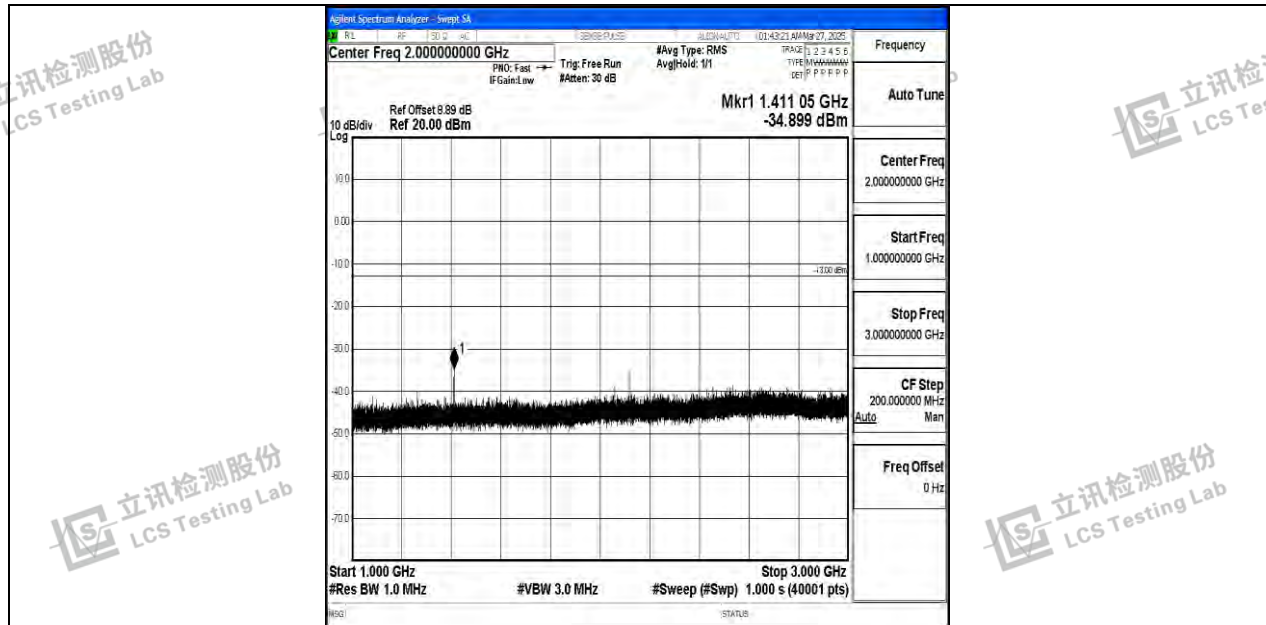
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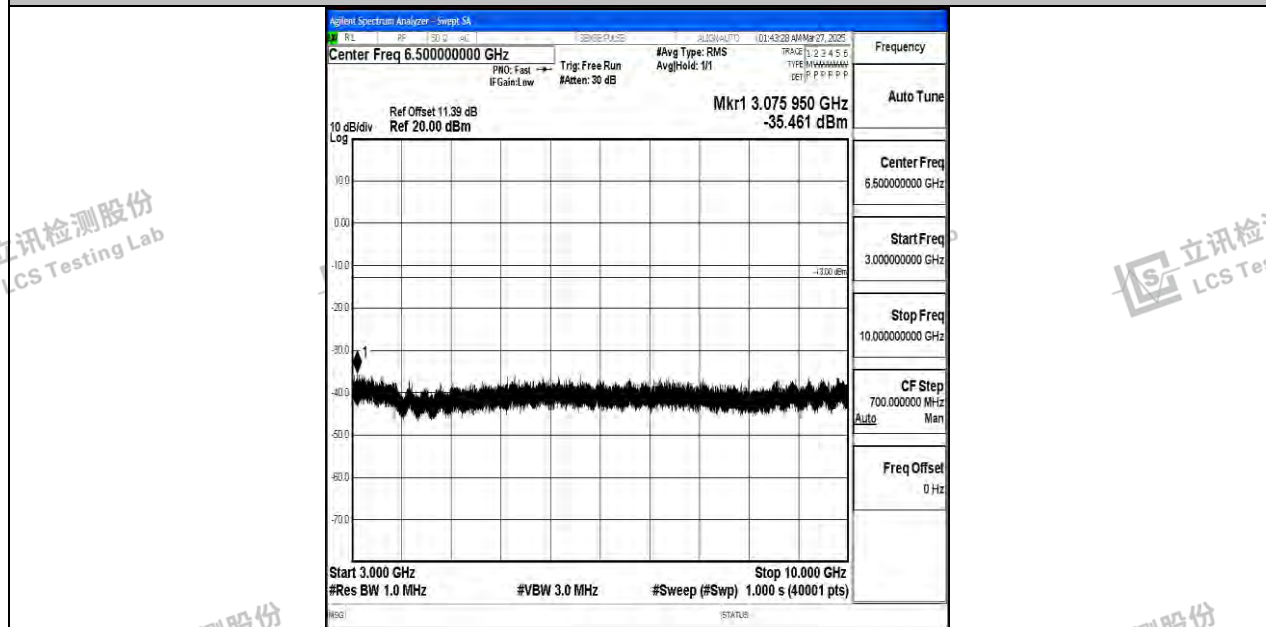
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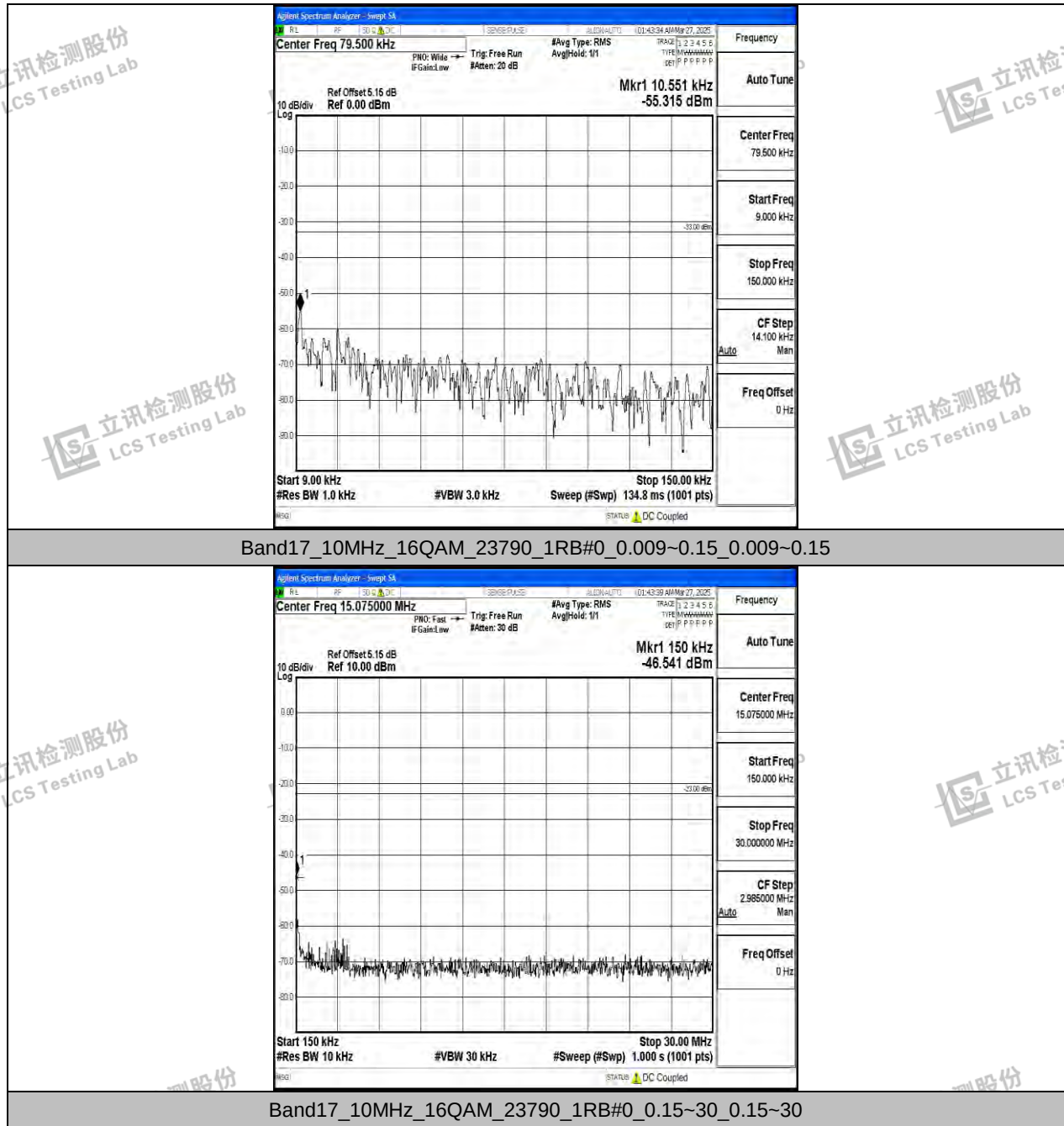


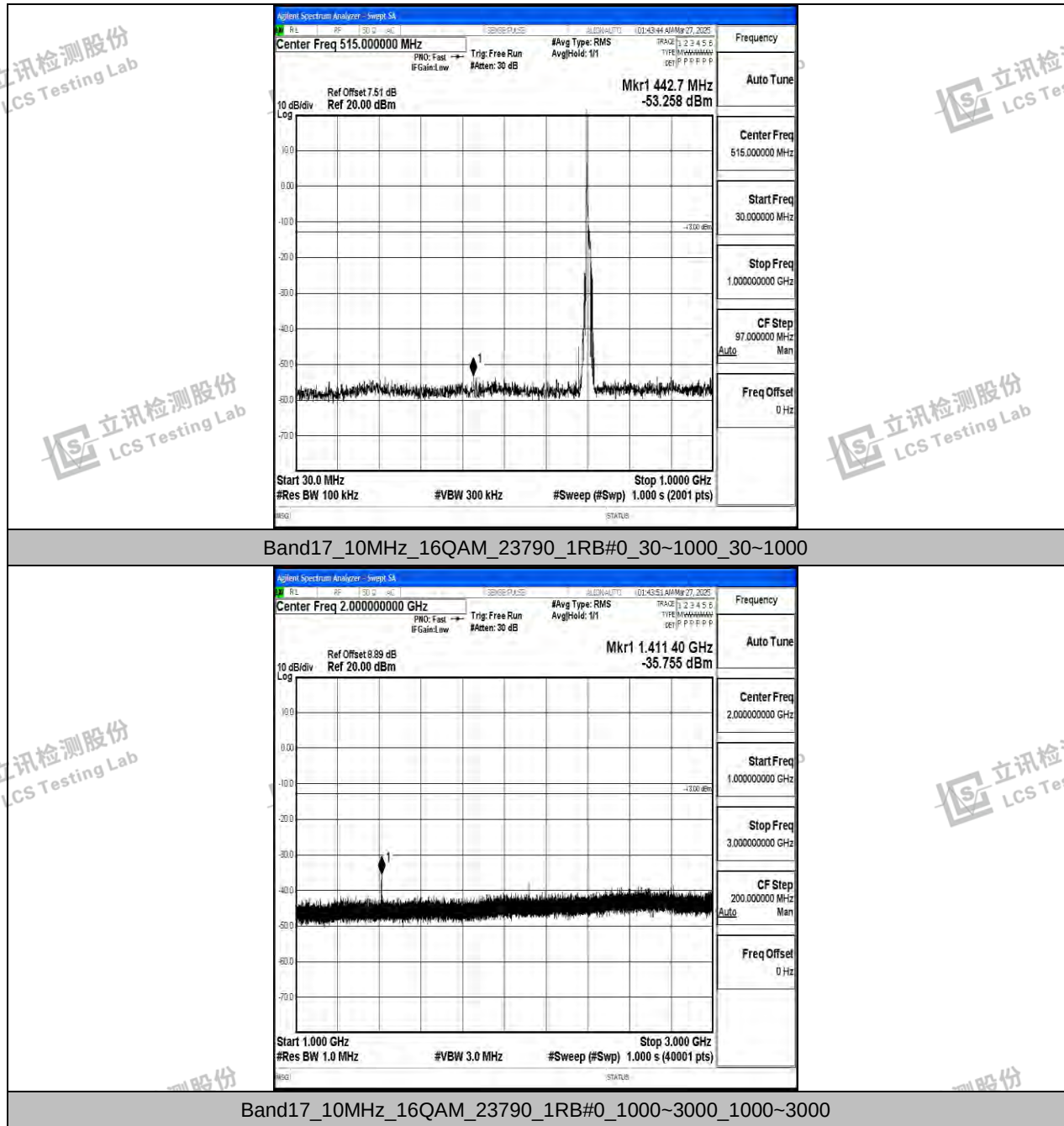
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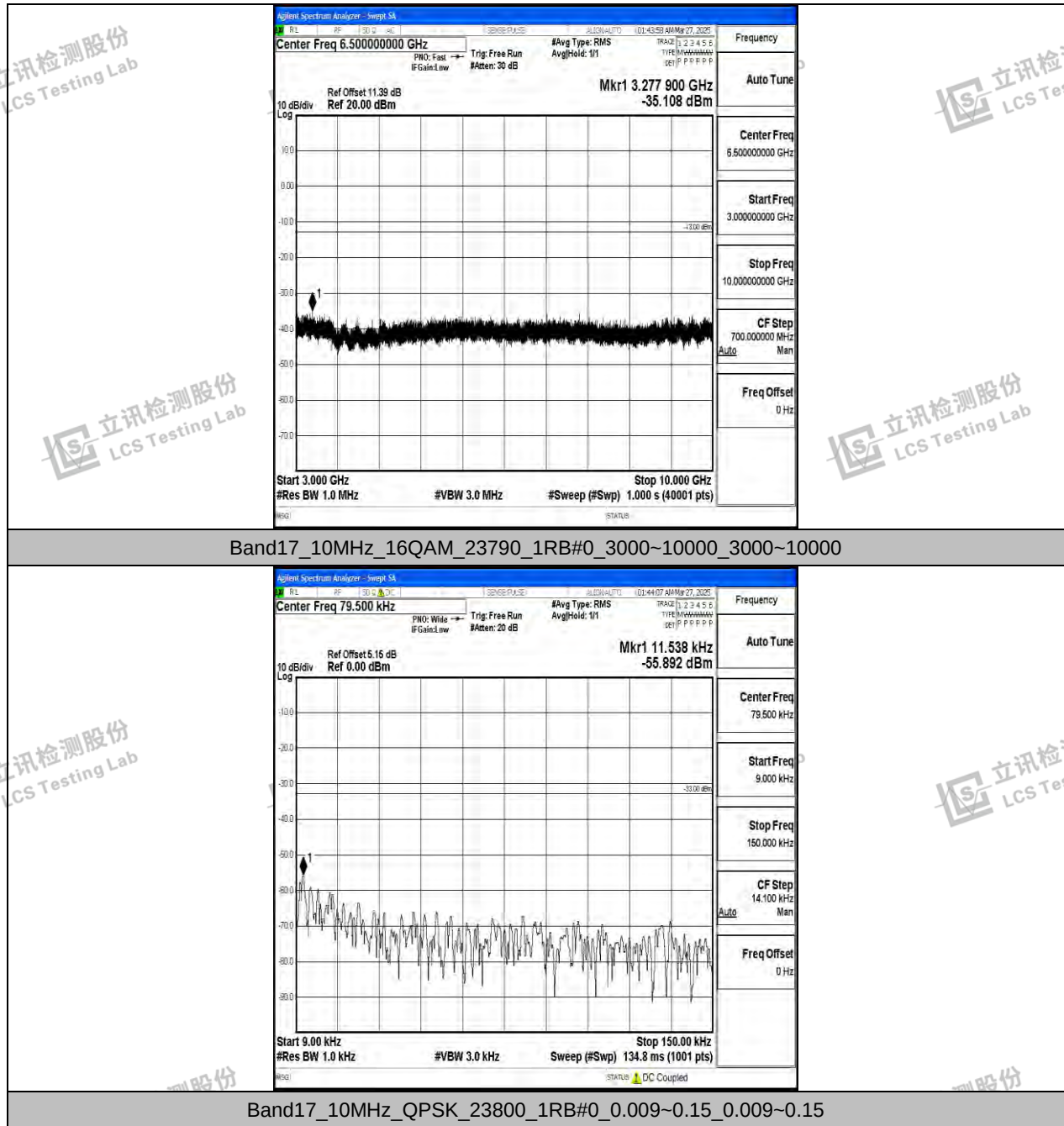


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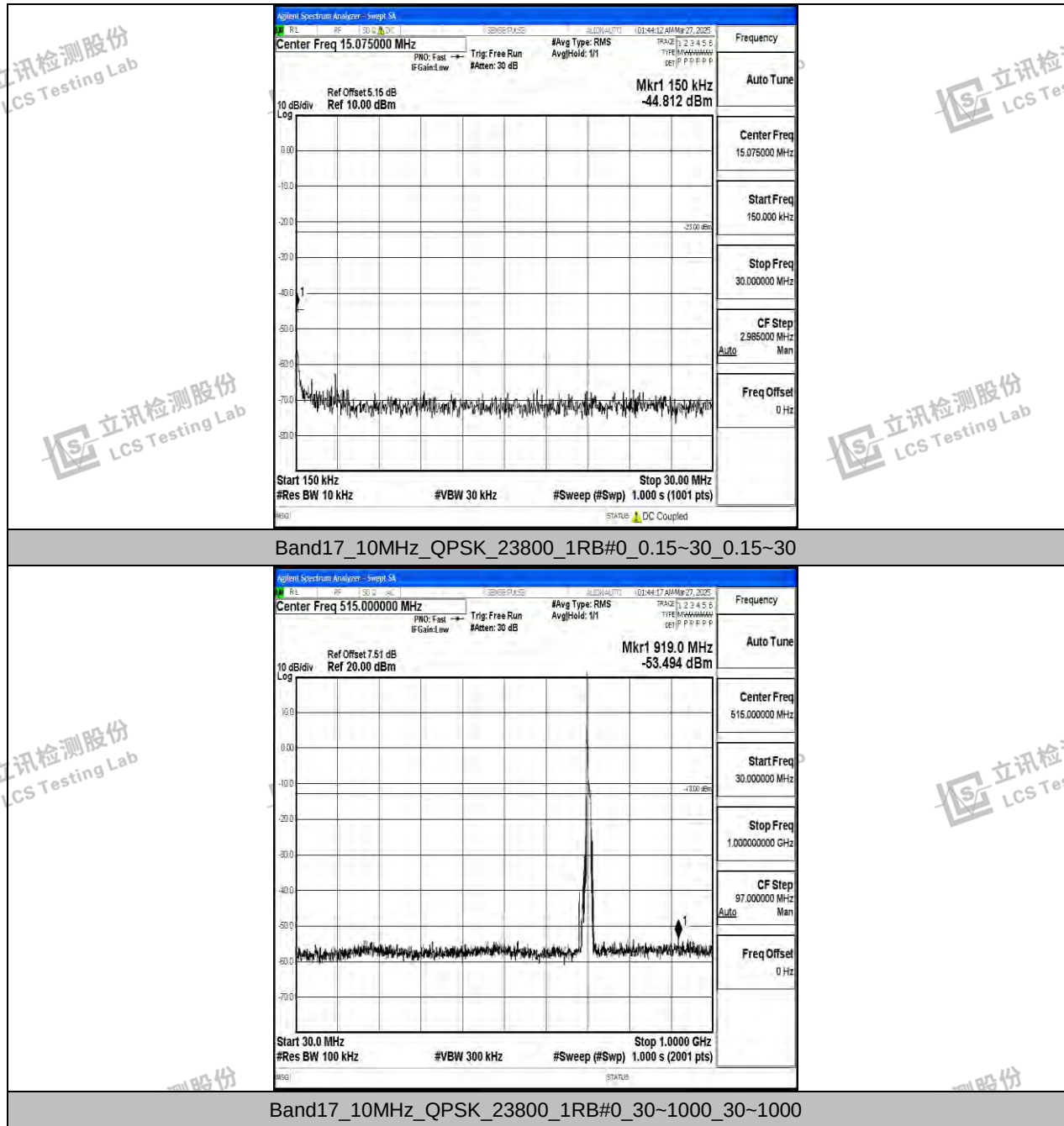


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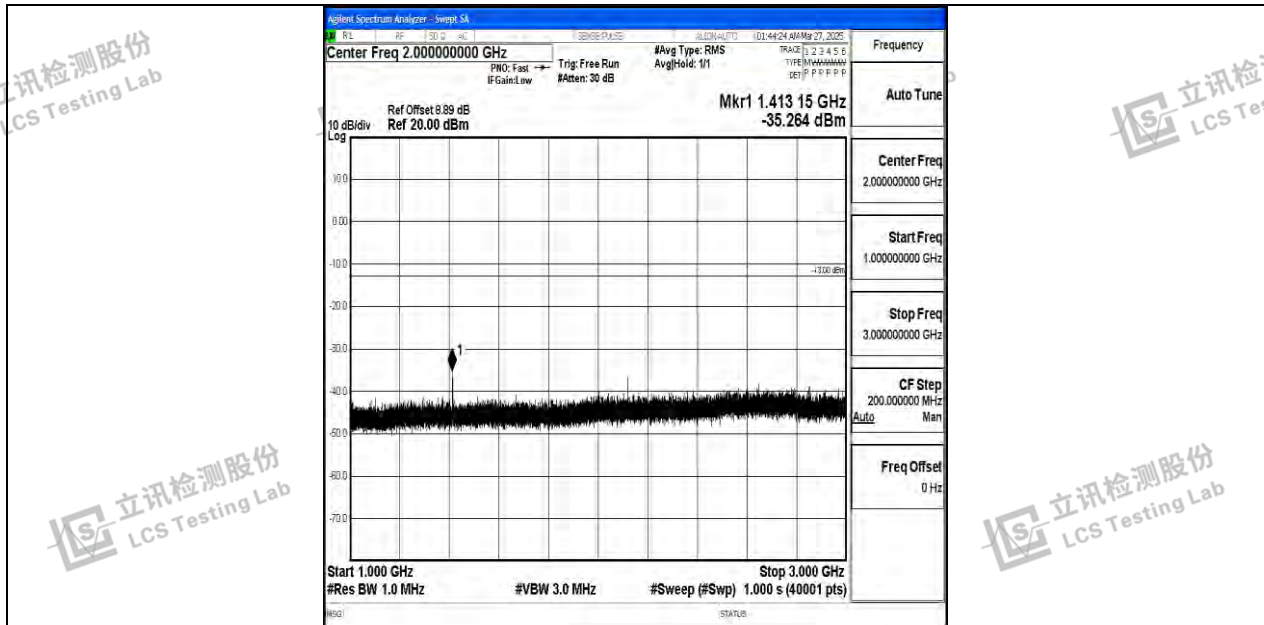


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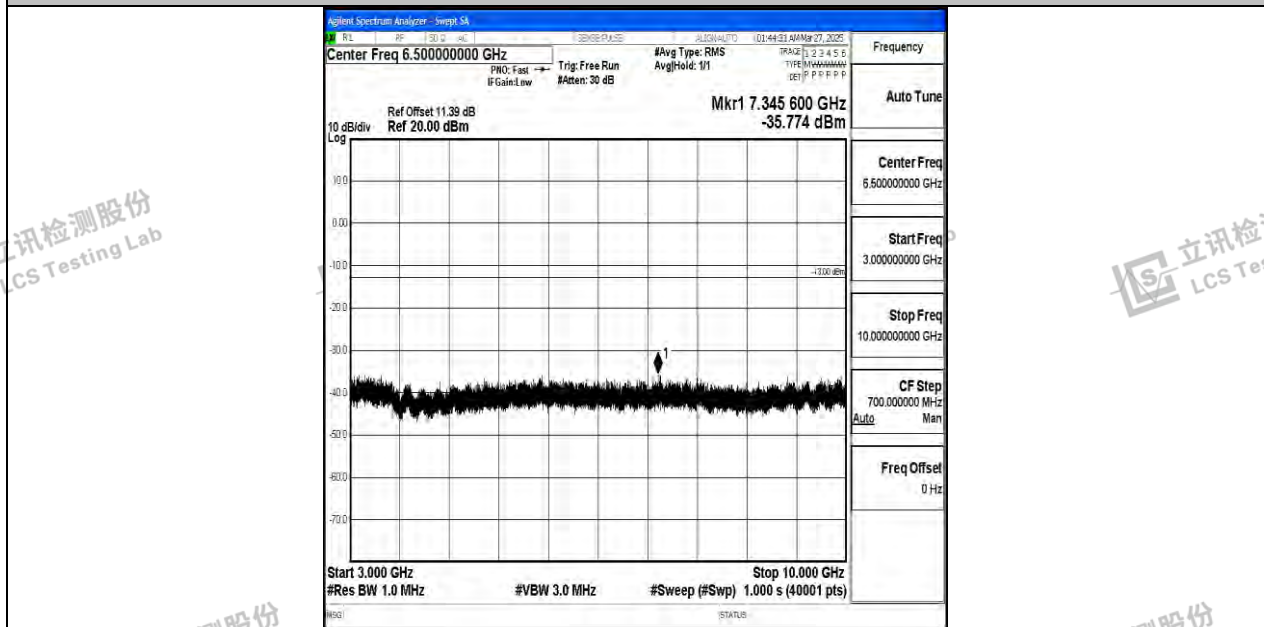
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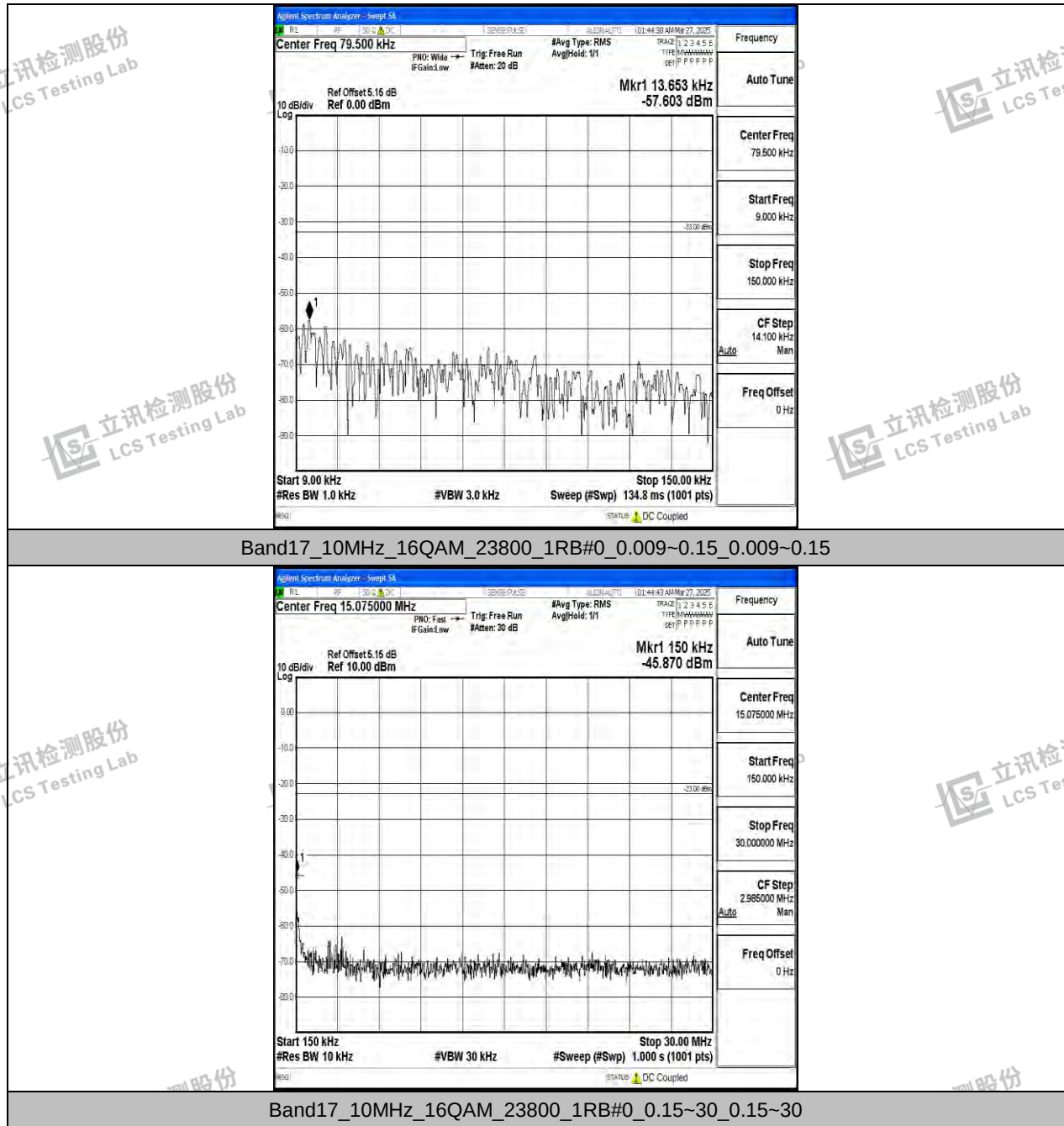


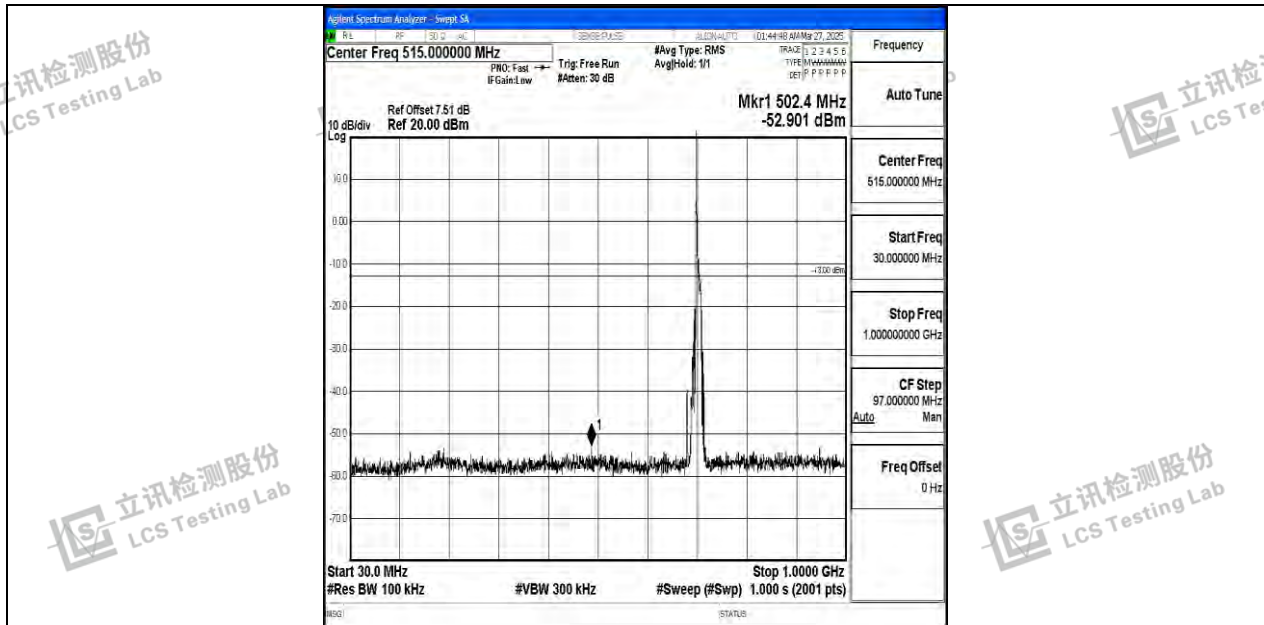
Band17_10MHz_QPSK_23800_1RB#0_1000~3000_1000~3000



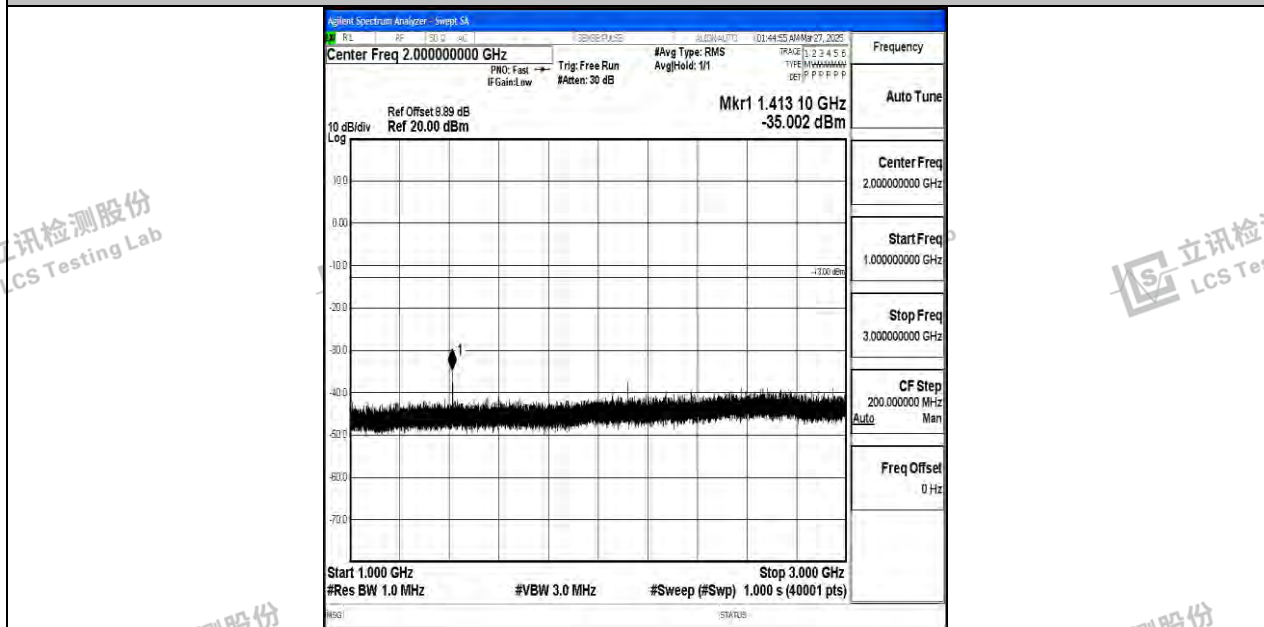
Band17_10MHz_QPSK_23800_1RB#0_3000~10000_3000~10000







Band17_10MHz_16QAM_23800_1RB#0_30~1000_30~1000



Band17_10MHz_16QAM_23800_1RB#0_1000~3000_1000~3000



