



Appendix H: Test Data for E-UTRA Band 17

Product Name: Cellular Wi-Fi Router

Test Model: H8959

Environmental Conditions

Temperature:	24.7° C
Relative Humidity:	53.8%
ATM Pressure:	100.0 kPa
Test Engineer:	Jerry Chu
Supervised by:	Can Kun



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H.1 Conducted Output Power Data

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band17	5MHz	QPSK	23755	1RB#0	23.79	PASS
Band17	5MHz	16QAM	23755	1RB#0	22.49	PASS
Band17	5MHz	QPSK	23755	1RB#12	23.67	PASS
Band17	5MHz	16QAM	23755	1RB#12	22.48	PASS
Band17	5MHz	QPSK	23755	1RB#24	23.66	PASS
Band17	5MHz	16QAM	23755	1RB#24	22.96	PASS
Band17	5MHz	QPSK	23755	12RB#0	22.82	PASS
Band17	5MHz	16QAM	23755	12RB#0	22.03	PASS
Band17	5MHz	QPSK	23755	12RB#6	22.74	PASS
Band17	5MHz	16QAM	23755	12RB#6	22.00	PASS
Band17	5MHz	QPSK	23755	12RB#13	22.72	PASS
Band17	5MHz	16QAM	23755	12RB#13	21.95	PASS
Band17	5MHz	QPSK	23755	25RB#0	22.66	PASS
Band17	5MHz	16QAM	23755	25RB#0	21.68	PASS
Band17	5MHz	QPSK	23790	1RB#0	23.56	PASS
Band17	5MHz	16QAM	23790	1RB#0	22.28	PASS
Band17	5MHz	QPSK	23790	1RB#12	23.51	PASS
Band17	5MHz	16QAM	23790	1RB#12	22.57	PASS
Band17	5MHz	QPSK	23790	1RB#24	23.69	PASS
Band17	5MHz	16QAM	23790	1RB#24	22.54	PASS
Band17	5MHz	QPSK	23790	12RB#0	22.65	PASS
Band17	5MHz	16QAM	23790	12RB#0	21.90	PASS
Band17	5MHz	QPSK	23790	12RB#6	22.73	PASS
Band17	5MHz	16QAM	23790	12RB#6	21.83	PASS
Band17	5MHz	QPSK	23790	12RB#13	22.70	PASS
Band17	5MHz	16QAM	23790	12RB#13	21.79	PASS
Band17	5MHz	QPSK	23790	25RB#0	22.66	PASS
Band17	5MHz	16QAM	23790	25RB#0	21.89	PASS
Band17	5MHz	QPSK	23825	1RB#0	23.57	PASS
Band17	5MHz	16QAM	23825	1RB#0	22.27	PASS
Band17	5MHz	QPSK	23825	1RB#12	23.60	PASS
Band17	5MHz	16QAM	23825	1RB#12	22.15	PASS
Band17	5MHz	QPSK	23825	1RB#24	23.62	PASS
Band17	5MHz	16QAM	23825	1RB#24	22.12	PASS
Band17	5MHz	QPSK	23825	12RB#0	22.80	PASS
Band17	5MHz	16QAM	23825	12RB#0	21.89	PASS



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Band17	5MHz	QPSK	23825	12RB#6	22.80	PASS
Band17	5MHz	16QAM	23825	12RB#6	21.86	PASS
Band17	5MHz	QPSK	23825	12RB#13	22.64	PASS
Band17	5MHz	16QAM	23825	12RB#13	21.87	PASS
Band17	5MHz	QPSK	23825	25RB#0	22.75	PASS
Band17	5MHz	16QAM	23825	25RB#0	21.96	PASS
Band17	10MHz	QPSK	23780	1RB#0	23.39	PASS
Band17	10MHz	16QAM	23780	1RB#0	22.38	PASS
Band17	10MHz	QPSK	23780	1RB#24	23.26	PASS
Band17	10MHz	16QAM	23780	1RB#24	22.31	PASS
Band17	10MHz	QPSK	23780	1RB#49	23.03	PASS
Band17	10MHz	16QAM	23780	1RB#49	22.39	PASS
Band17	10MHz	QPSK	23780	25RB#0	22.49	PASS
Band17	10MHz	16QAM	23780	25RB#0	21.63	PASS
Band17	10MHz	QPSK	23780	25RB#12	22.49	PASS
Band17	10MHz	16QAM	23780	25RB#12	21.63	PASS
Band17	10MHz	QPSK	23780	25RB#25	22.55	PASS
Band17	10MHz	16QAM	23780	25RB#25	21.59	PASS
Band17	10MHz	QPSK	23780	50RB#0	22.44	PASS
Band17	10MHz	16QAM	23780	50RB#0	21.72	PASS
Band17	10MHz	QPSK	23790	1RB#0	23.59	PASS
Band17	10MHz	16QAM	23790	1RB#0	22.63	PASS
Band17	10MHz	QPSK	23790	1RB#24	23.61	PASS
Band17	10MHz	16QAM	23790	1RB#24	21.91	PASS
Band17	10MHz	QPSK	23790	1RB#49	23.42	PASS
Band17	10MHz	16QAM	23790	1RB#49	21.85	PASS
Band17	10MHz	QPSK	23790	25RB#0	22.51	PASS
Band17	10MHz	16QAM	23790	25RB#0	21.81	PASS
Band17	10MHz	QPSK	23790	25RB#12	22.51	PASS
Band17	10MHz	16QAM	23790	25RB#12	21.81	PASS
Band17	10MHz	QPSK	23790	25RB#25	22.62	PASS
Band17	10MHz	16QAM	23790	25RB#25	21.77	PASS
Band17	10MHz	QPSK	23790	50RB#0	22.40	PASS
Band17	10MHz	16QAM	23790	50RB#0	21.80	PASS
Band17	10MHz	QPSK	23800	1RB#0	23.33	PASS
Band17	10MHz	16QAM	23800	1RB#0	23.32	PASS
Band17	10MHz	QPSK	23800	1RB#24	23.28	PASS
Band17	10MHz	16QAM	23800	1RB#24	23.18	PASS
Band17	10MHz	QPSK	23800	1RB#49	23.30	PASS
Band17	10MHz	16QAM	23800	1RB#49	23.19	PASS
Band17	10MHz	QPSK	23800	25RB#0	22.65	PASS
Band17	10MHz	16QAM	23800	25RB#0	21.69	PASS



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Band17	10MHz	QPSK	23800	25RB#12	22.51	PASS
Band17	10MHz	16QAM	23800	25RB#12	21.70	PASS
Band17	10MHz	QPSK	23800	25RB#25	22.39	PASS
Band17	10MHz	16QAM	23800	25RB#25	21.70	PASS
Band17	10MHz	QPSK	23800	50RB#0	22.35	PASS
Band17	10MHz	16QAM	23800	50RB#0	21.76	PASS



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H.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	5.36	13	PASS
Band17	5MHz	16QAM	23755	1RB#0	5.91	13	PASS
Band17	5MHz	QPSK	23755	25RB#0	5.53	13	PASS
Band17	5MHz	16QAM	23755	25RB#0	6.18	13	PASS
Band17	5MHz	QPSK	23790	1RB#0	4.97	13	PASS
Band17	5MHz	16QAM	23790	1RB#0	5.64	13	PASS
Band17	5MHz	QPSK	23790	25RB#0	5.43	13	PASS
Band17	5MHz	16QAM	23790	25RB#0	6.05	13	PASS
Band17	5MHz	QPSK	23825	1RB#0	4.82	13	PASS
Band17	5MHz	16QAM	23825	1RB#0	5.28	13	PASS
Band17	5MHz	QPSK	23825	25RB#0	5.47	13	PASS
Band17	5MHz	16QAM	23825	25RB#0	6.11	13	PASS
Band17	10MHz	QPSK	23780	1RB#0	5.23	13	PASS
Band17	10MHz	16QAM	23780	1RB#0	6.01	13	PASS
Band17	10MHz	QPSK	23780	50RB#0	5.48	13	PASS
Band17	10MHz	16QAM	23780	50RB#0	6.16	13	PASS
Band17	10MHz	QPSK	23790	1RB#0	4.97	13	PASS
Band17	10MHz	16QAM	23790	1RB#0	5.89	13	PASS
Band17	10MHz	QPSK	23790	50RB#0	5.49	13	PASS
Band17	10MHz	16QAM	23790	50RB#0	6.17	13	PASS
Band17	10MHz	QPSK	23800	1RB#0	4.95	13	PASS
Band17	10MHz	16QAM	23800	1RB#0	5.75	13	PASS
Band17	10MHz	QPSK	23800	50RB#0	5.52	13	PASS
Band17	10MHz	16QAM	23800	50RB#0	6.20	13	PASS



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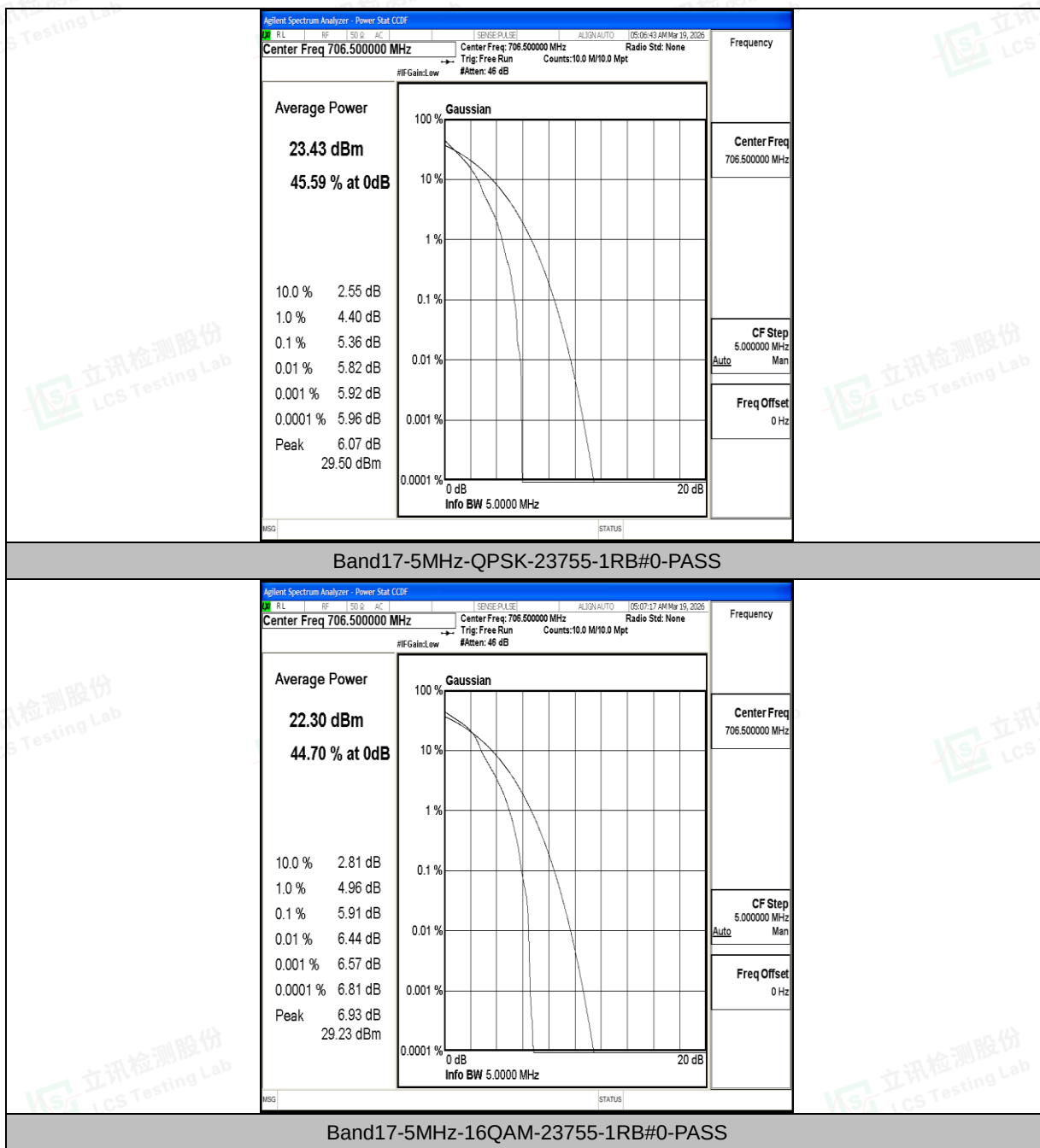
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Test Graphs

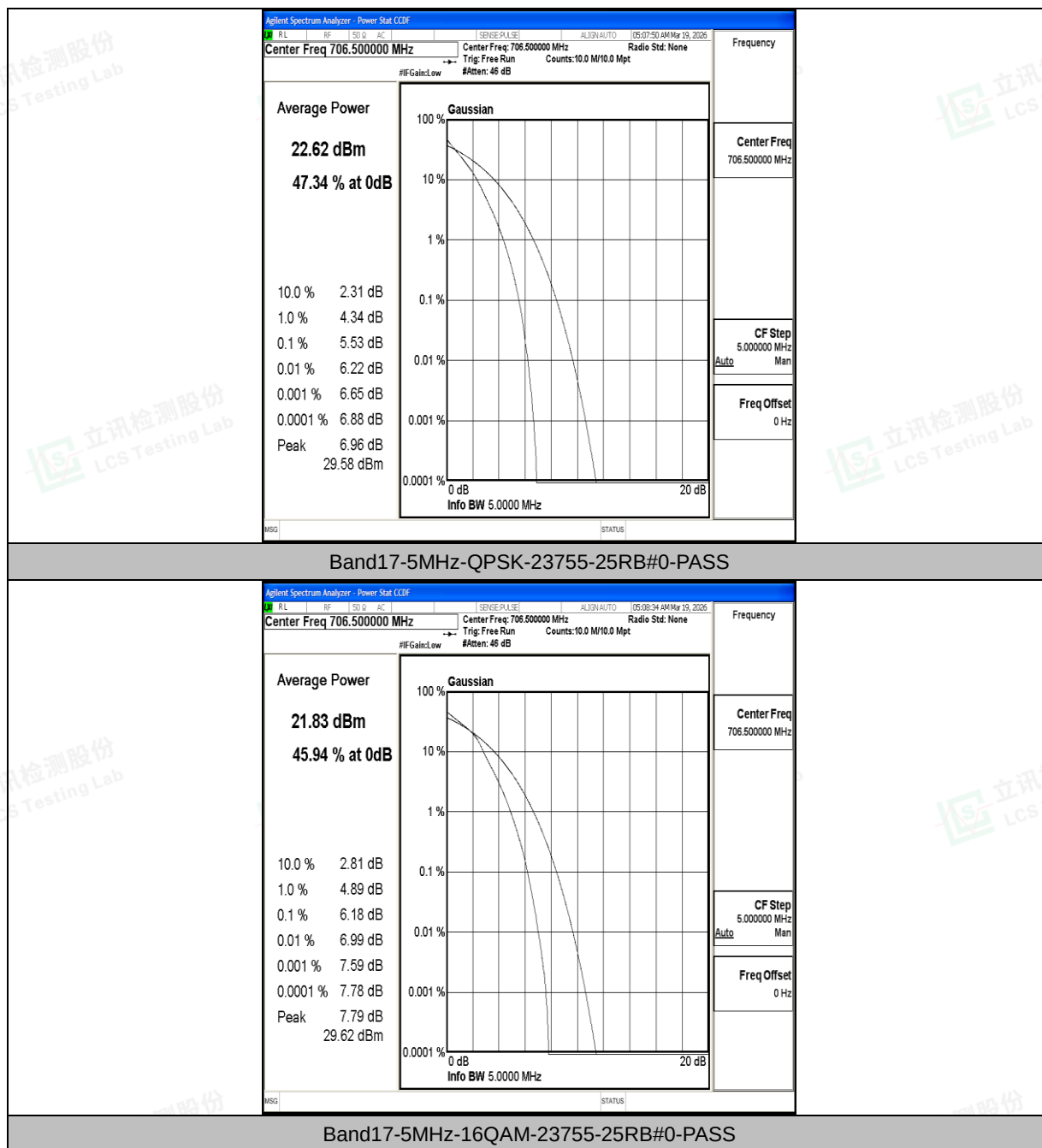


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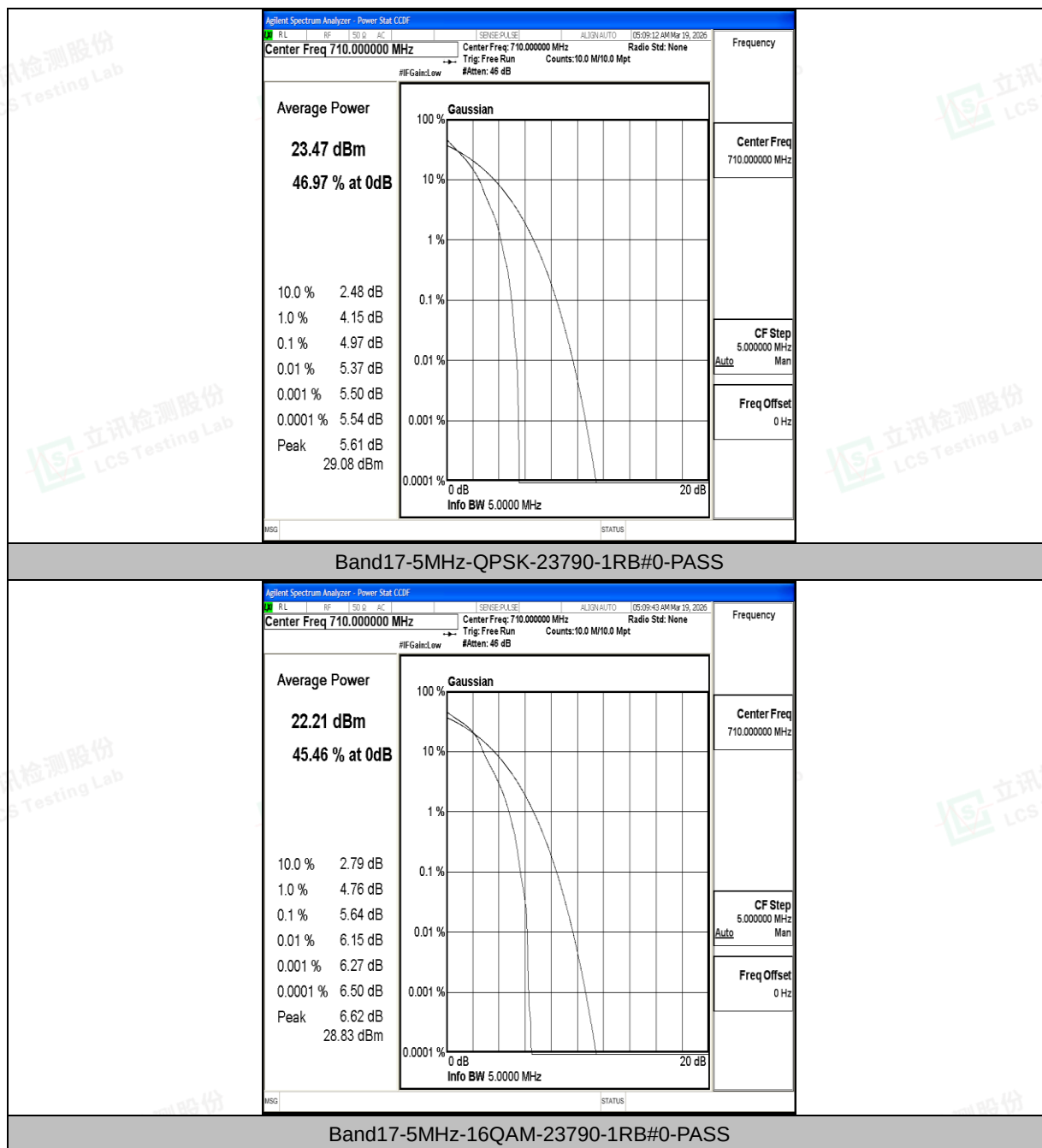


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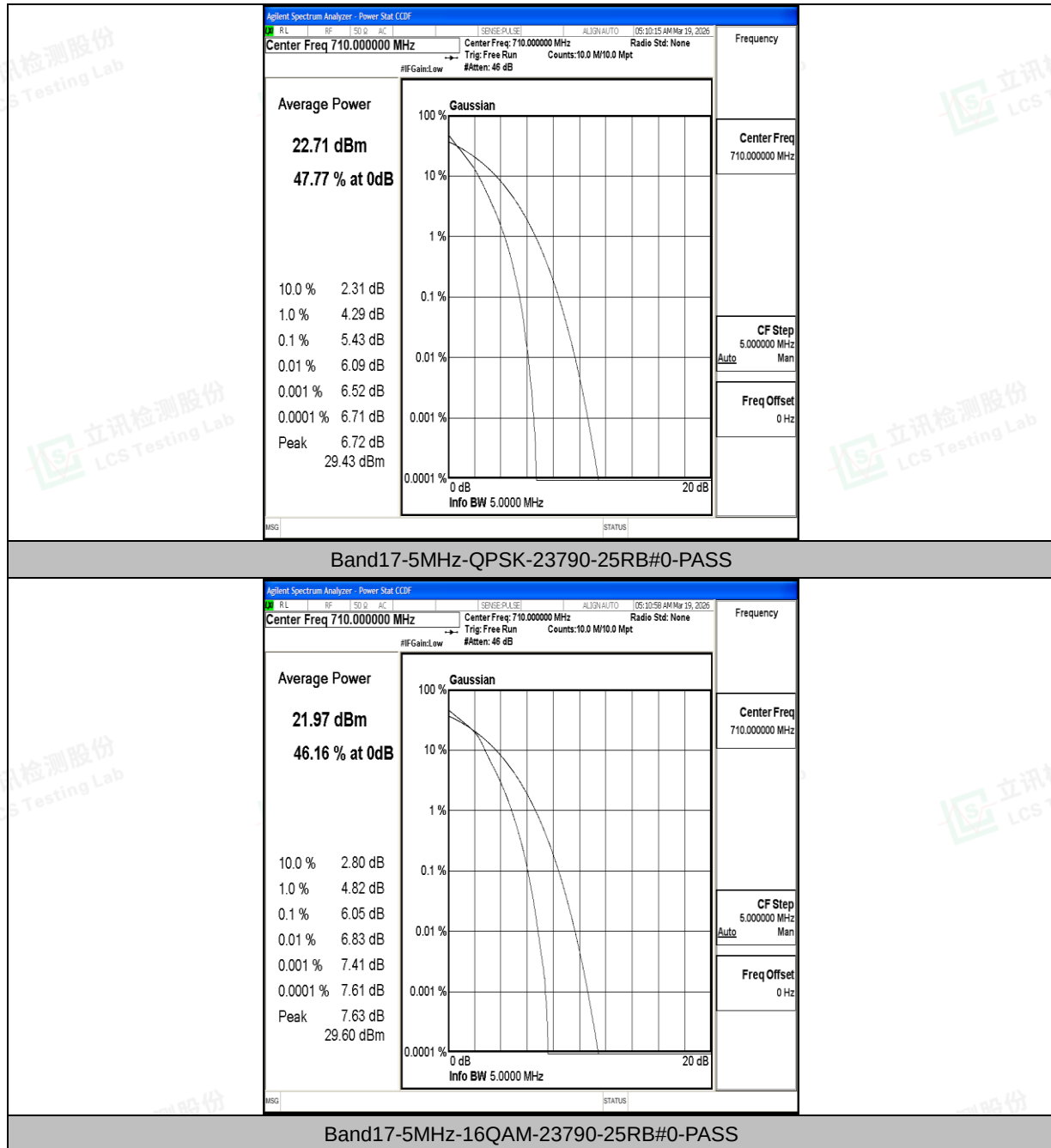


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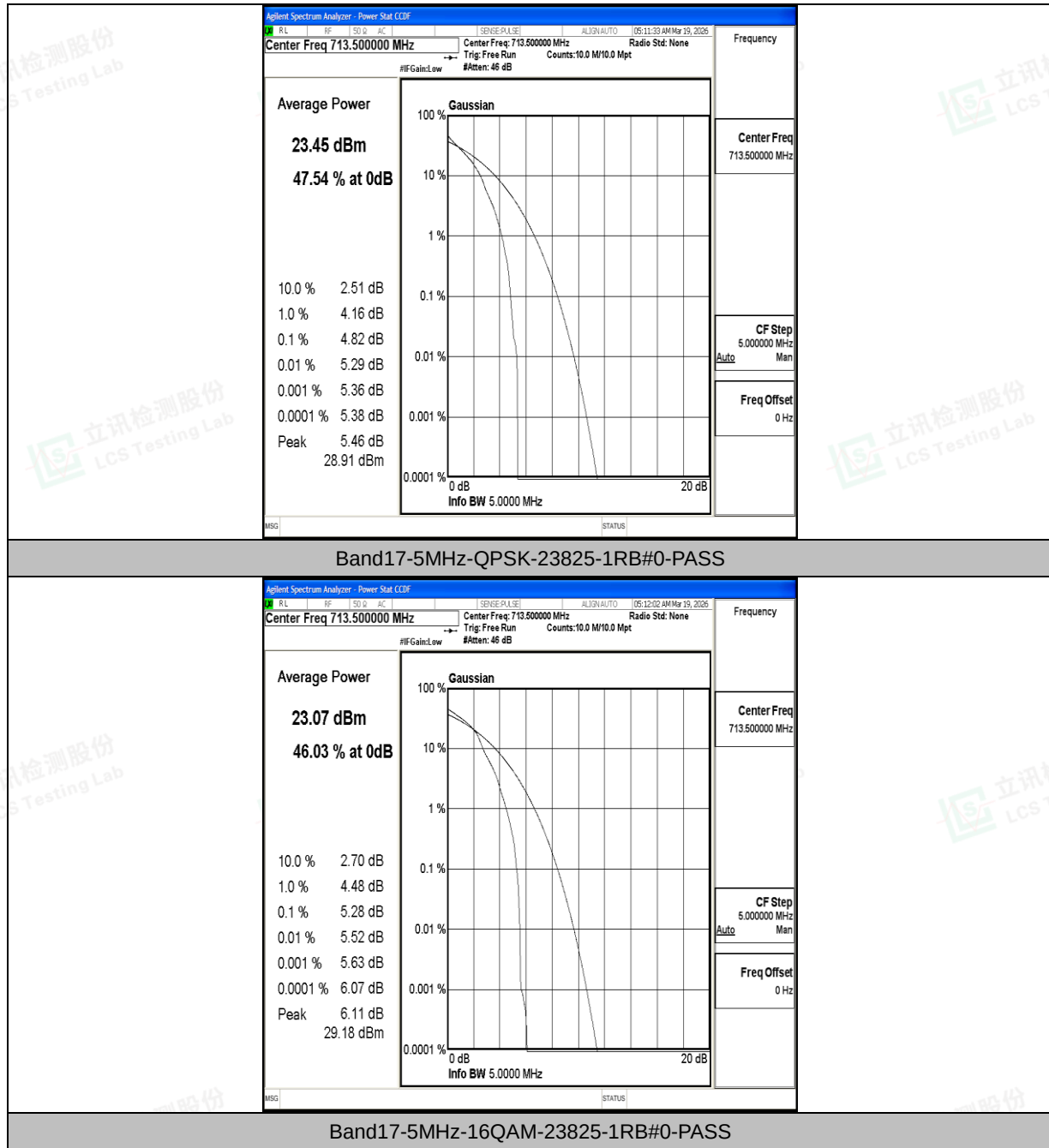


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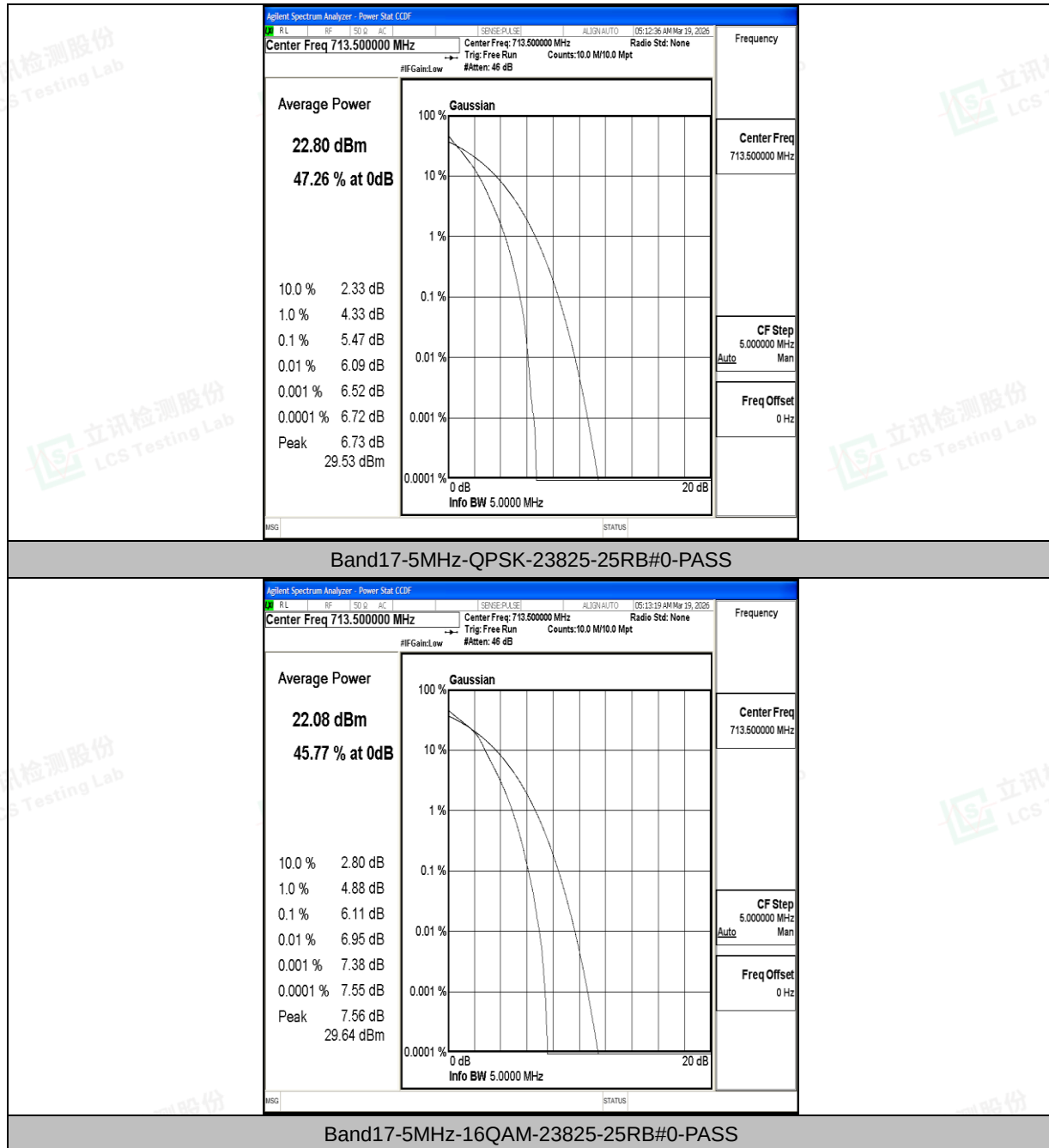


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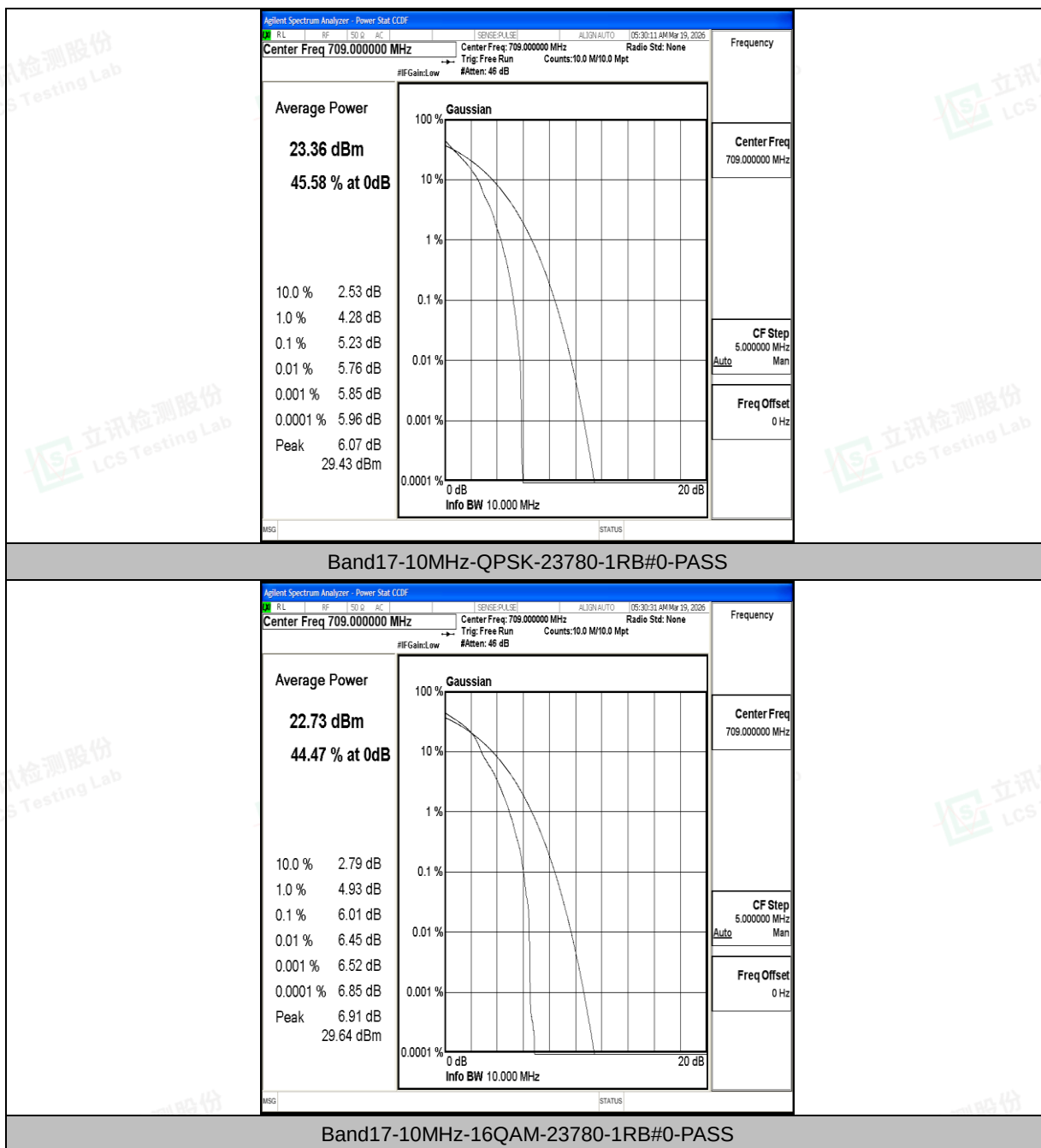


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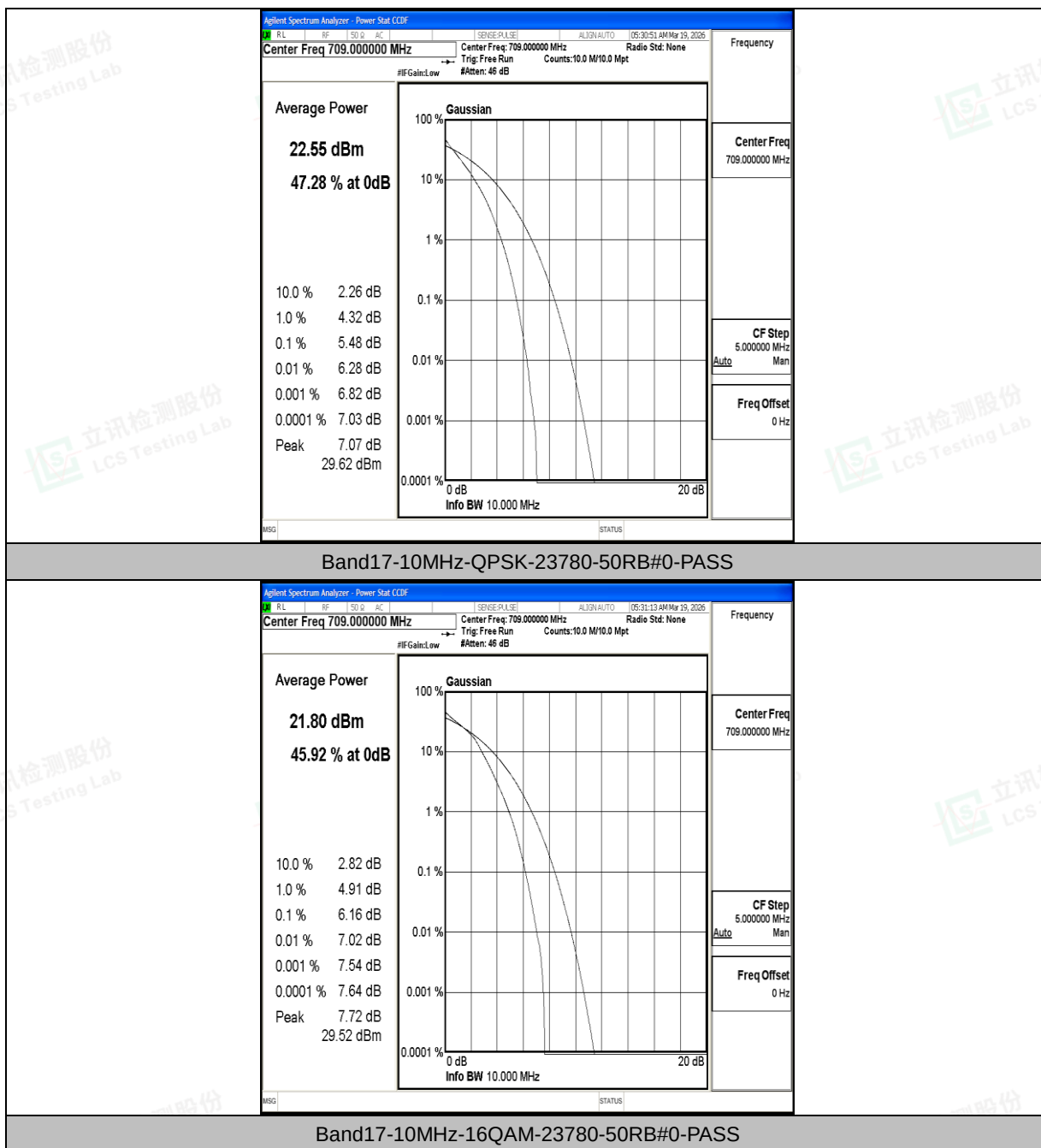


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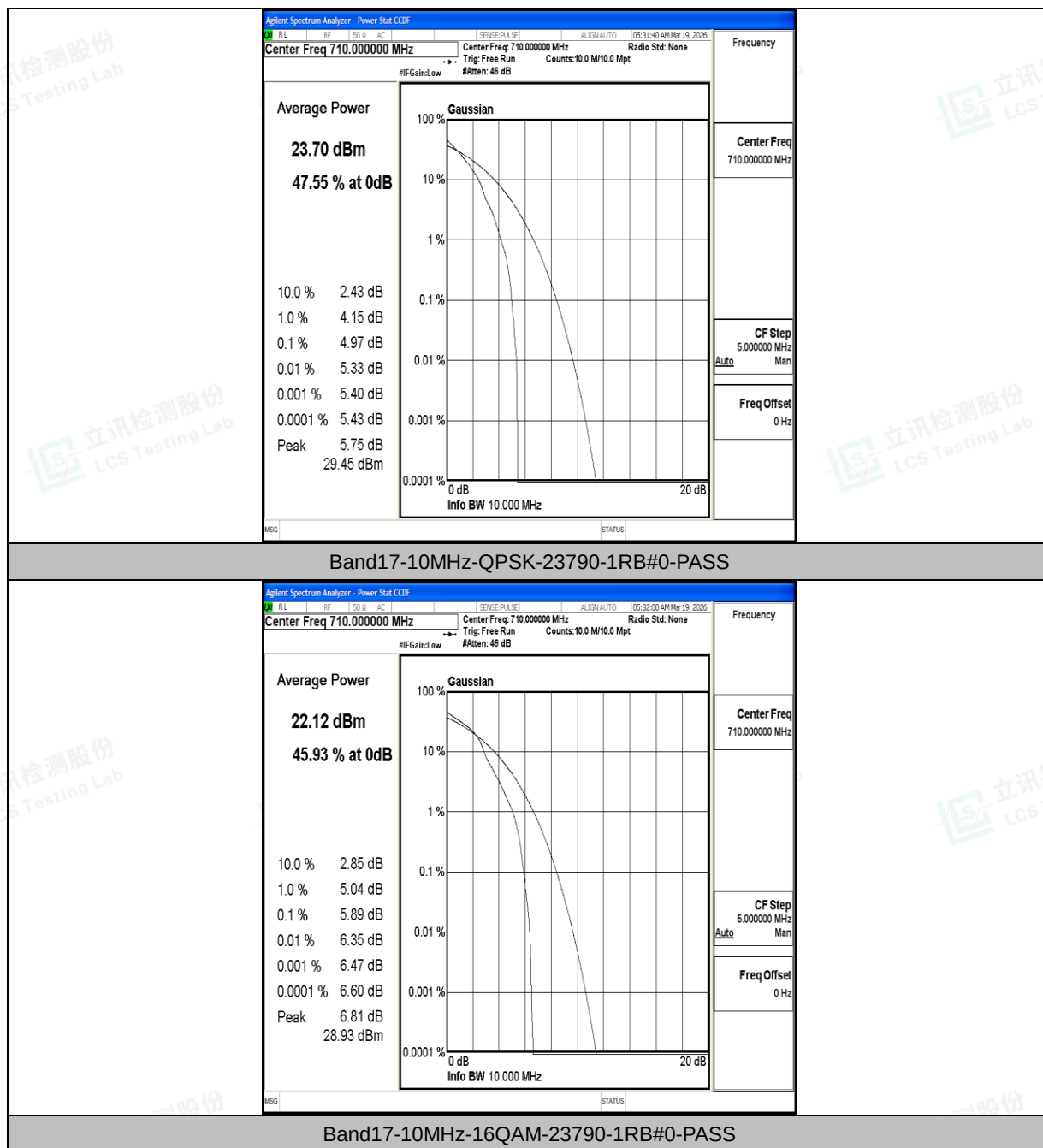


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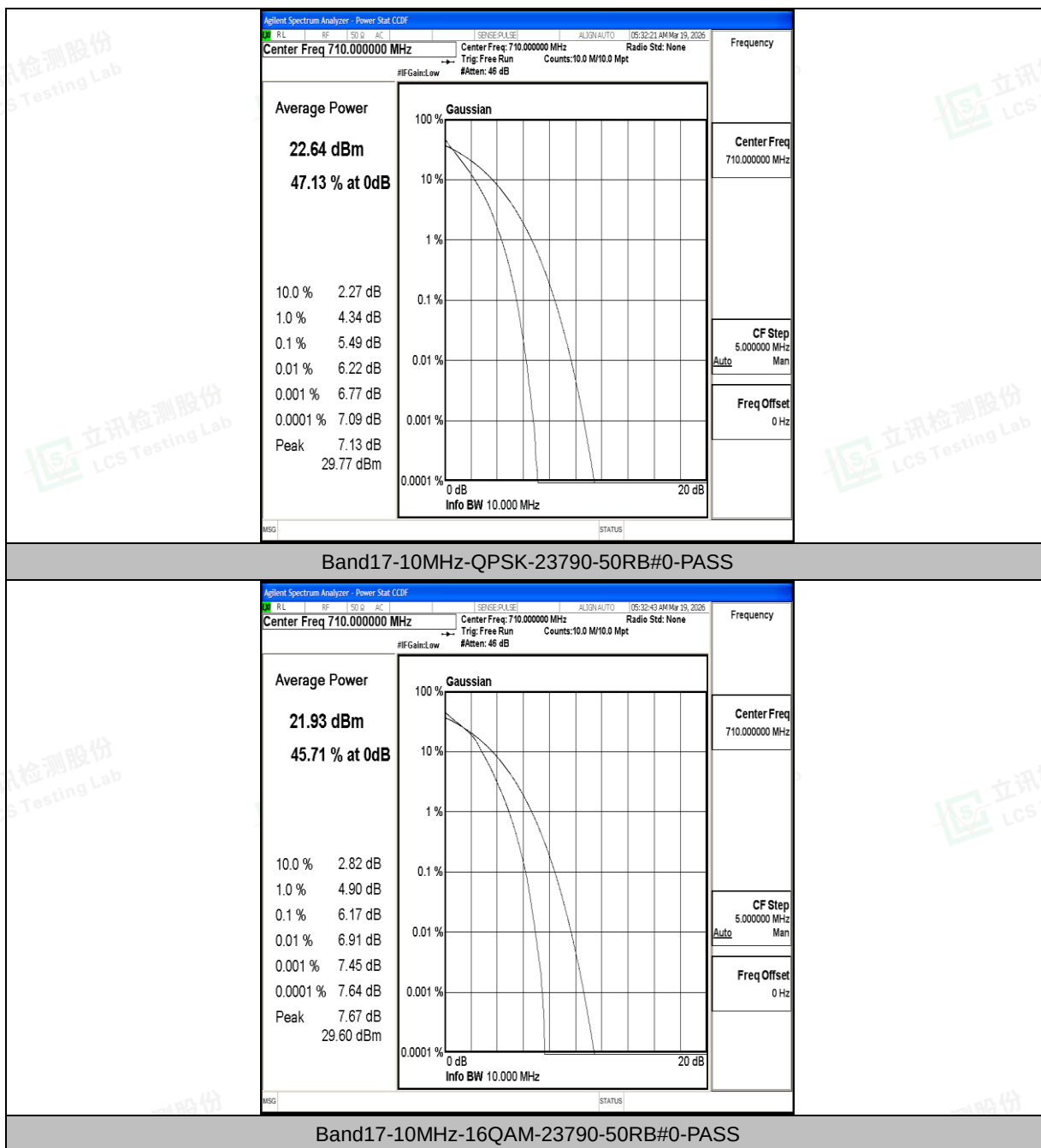


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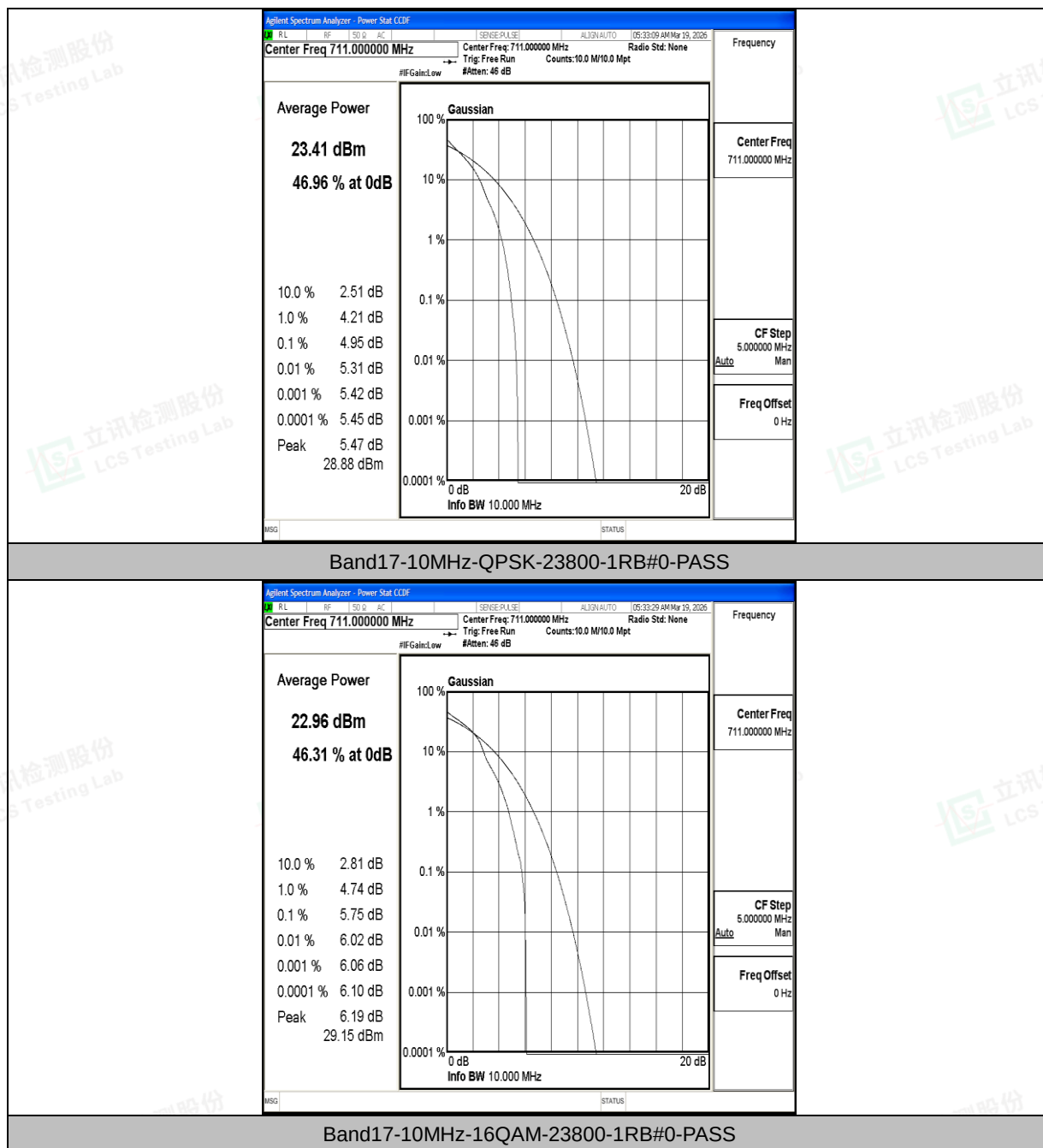


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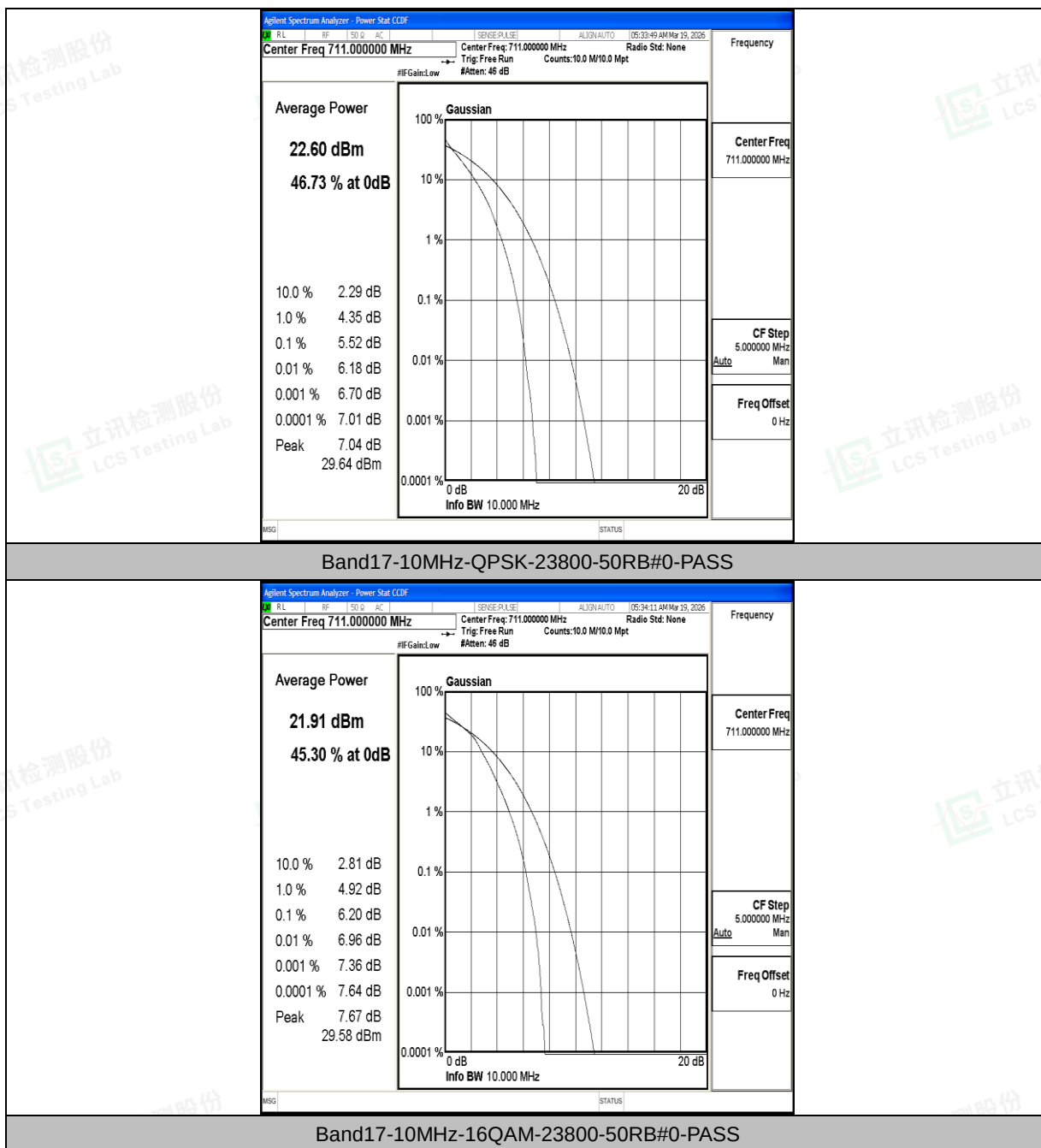


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H.3 26dB Bandwidth and Occupied Bandwidth

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band17	5MHz	QPSK	23755	25RB#0	4.5127	5.337	PASS
Band17	5MHz	16QAM	23755	25RB#0	4.5147	5.220	PASS
Band17	5MHz	QPSK	23790	25RB#0	4.5116	5.339	PASS
Band17	5MHz	16QAM	23790	25RB#0	4.5235	5.252	PASS
Band17	5MHz	QPSK	23825	25RB#0	4.5270	5.553	PASS
Band17	5MHz	16QAM	23825	25RB#0	4.5310	5.383	PASS
Band17	10MHz	QPSK	23780	50RB#0	8.9681	9.983	PASS
Band17	10MHz	16QAM	23780	50RB#0	8.9883	10.08	PASS
Band17	10MHz	QPSK	23790	50RB#0	8.9941	10.09	PASS
Band17	10MHz	16QAM	23790	50RB#0	8.9888	10.45	PASS
Band17	10MHz	QPSK	23800	50RB#0	8.9735	10.18	PASS
Band17	10MHz	16QAM	23800	50RB#0	9.0082	10.10	PASS



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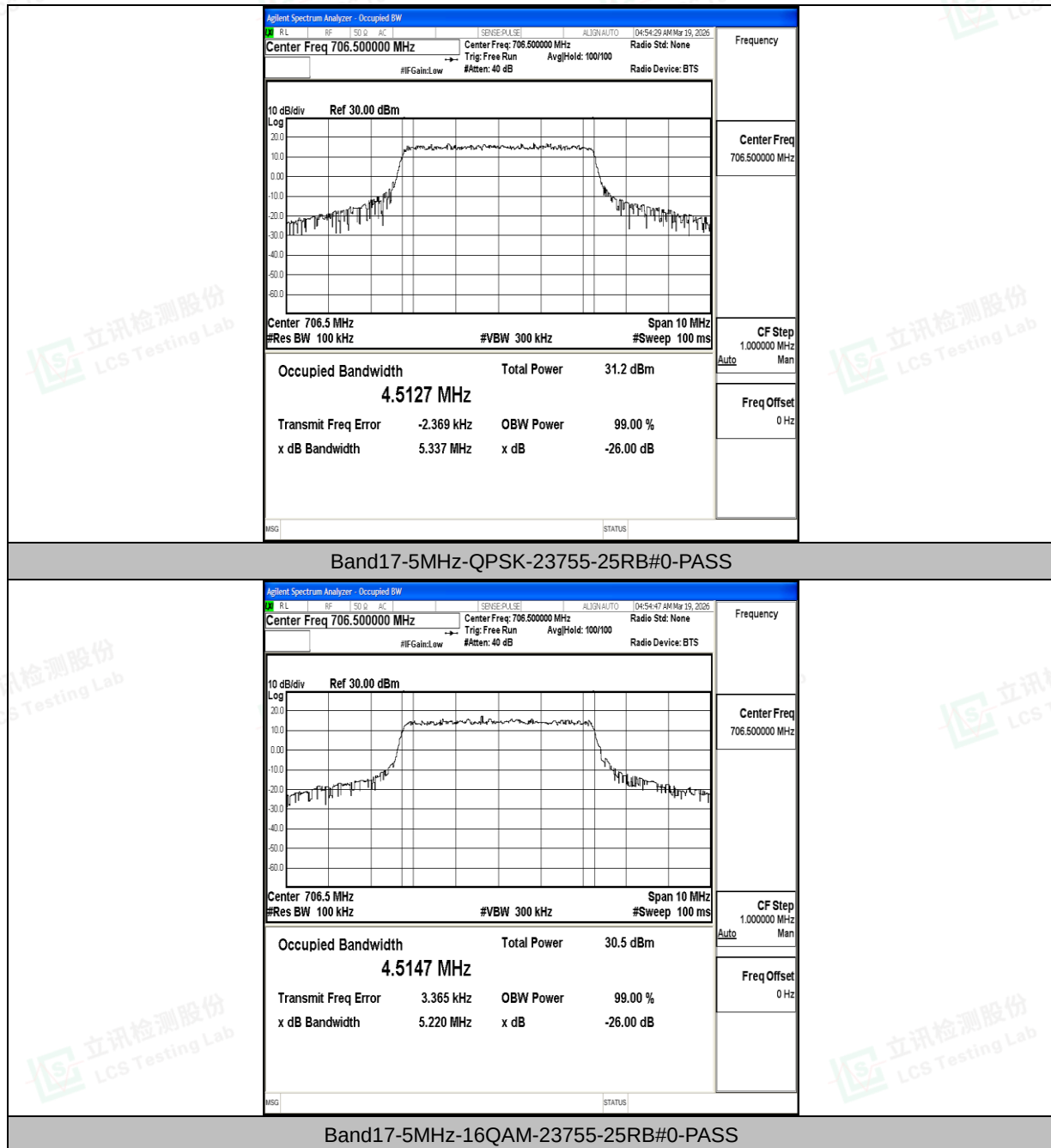
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Test Graphs

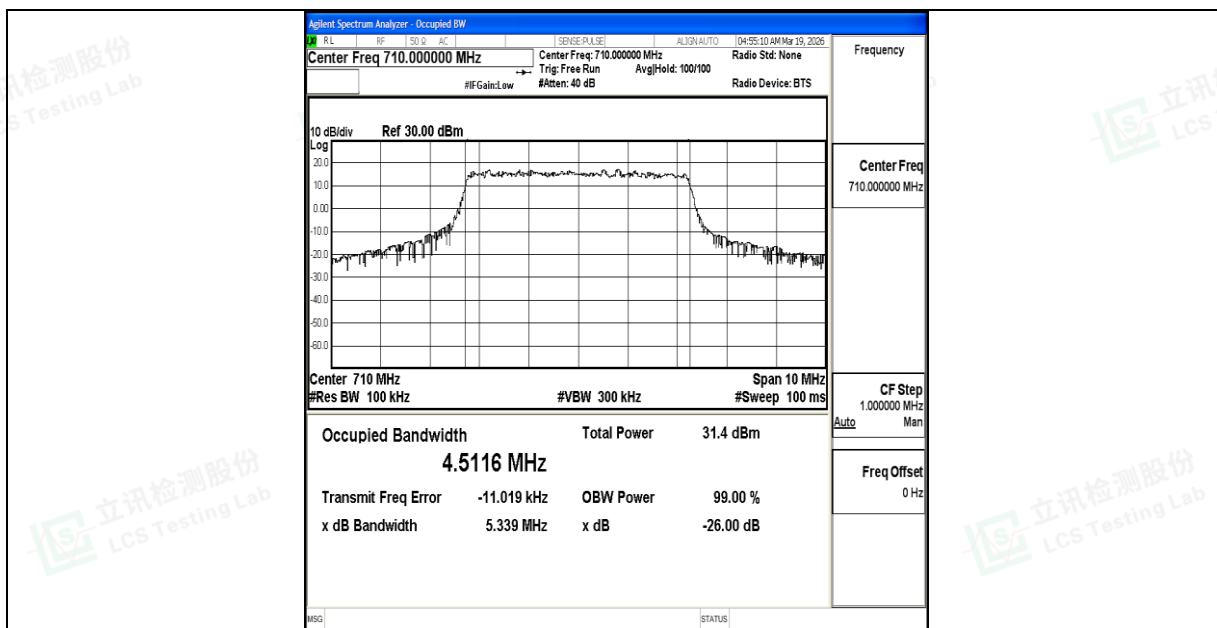


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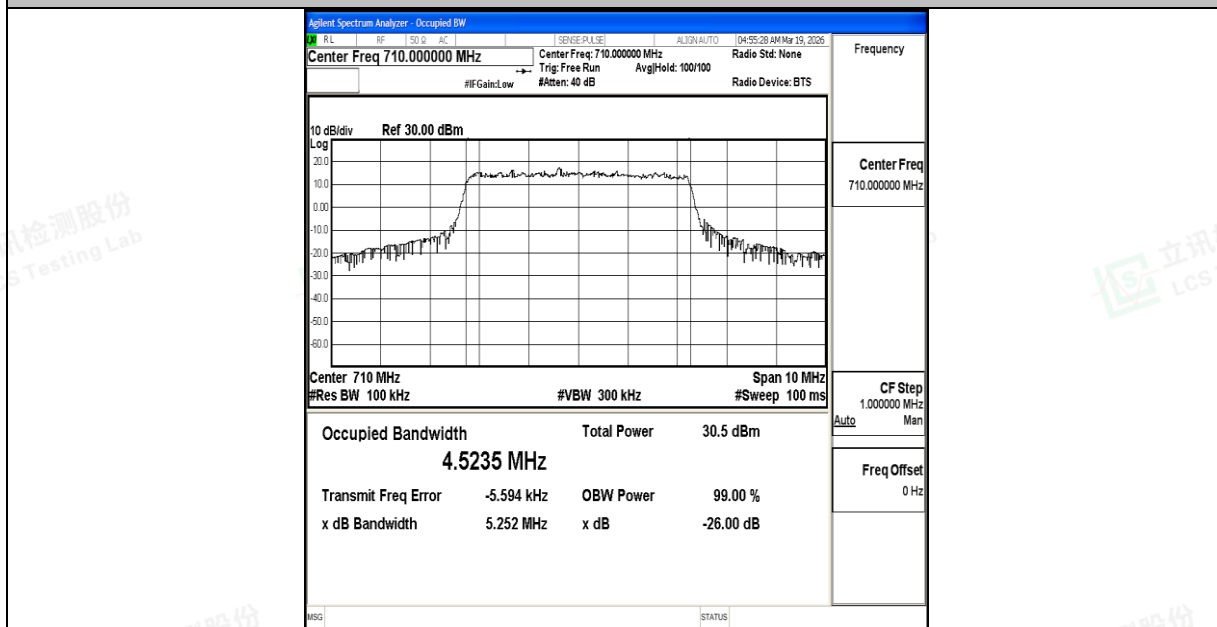
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Band17-5MHz-QPSK-23790-25RB#0-PASS



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

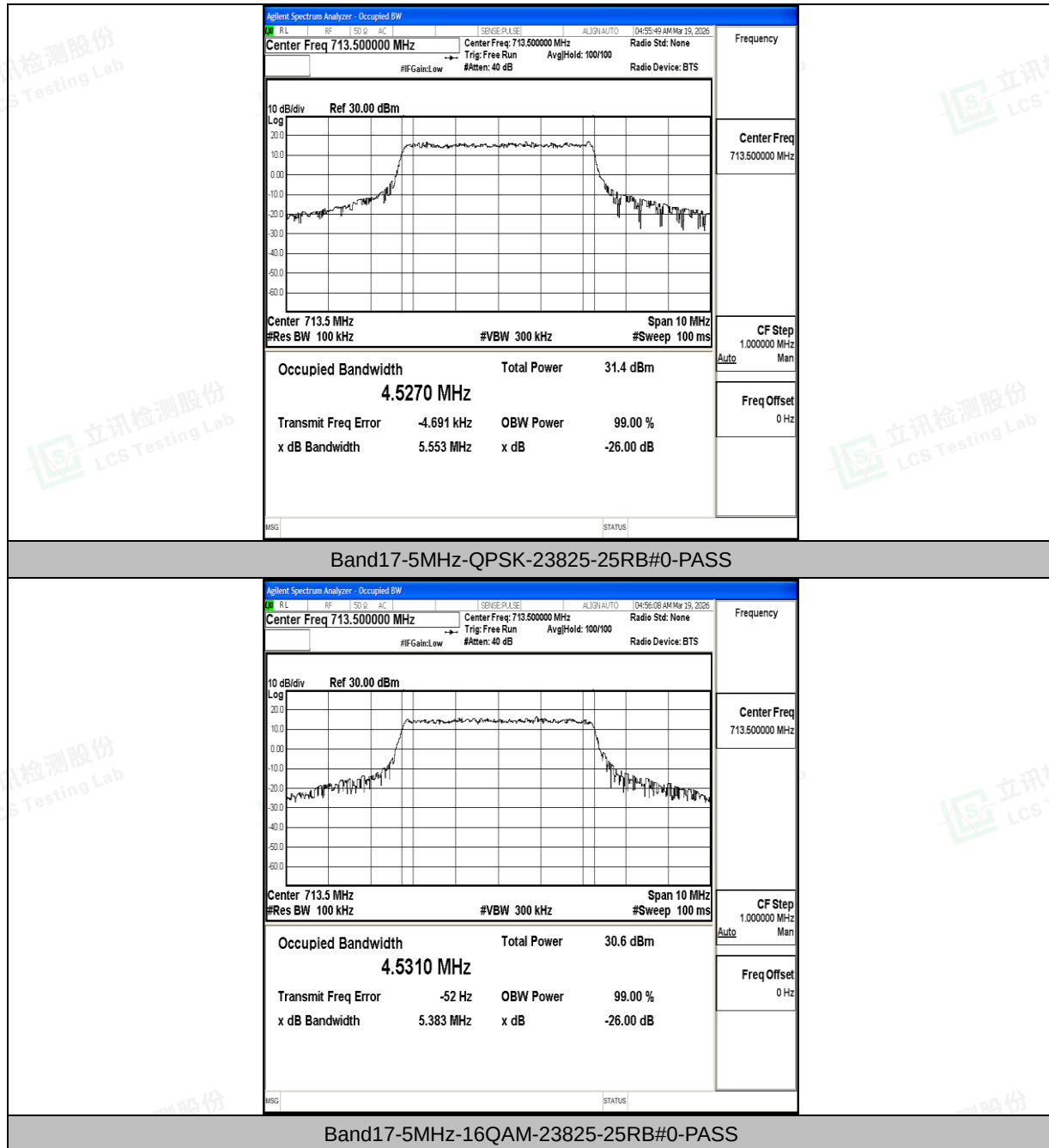


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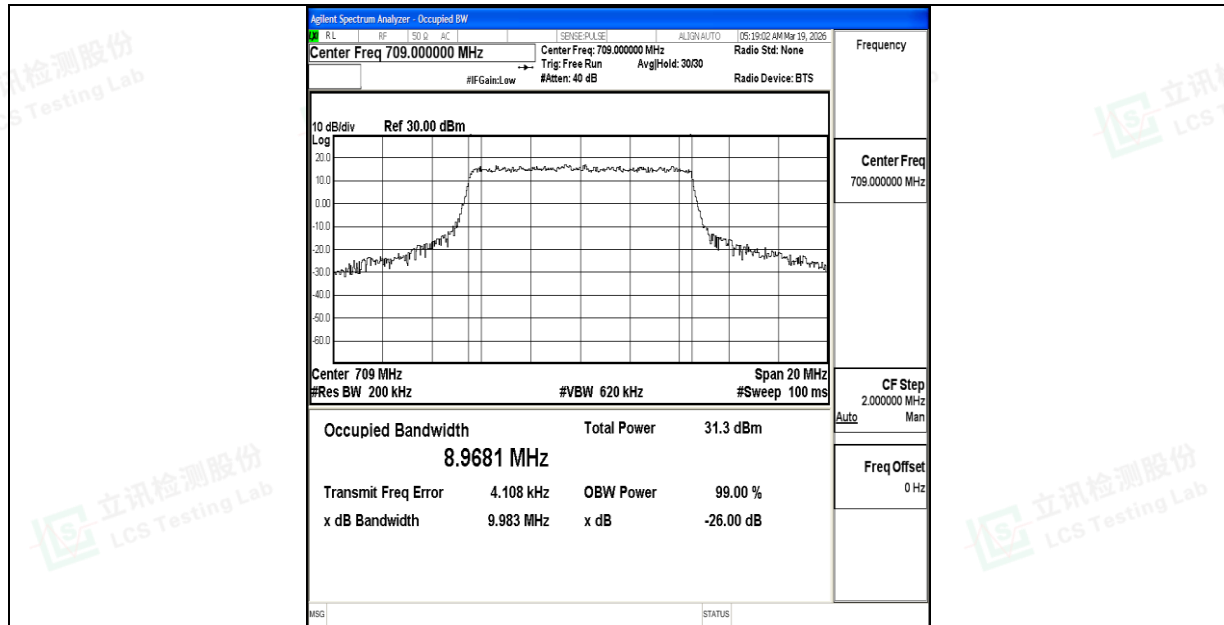


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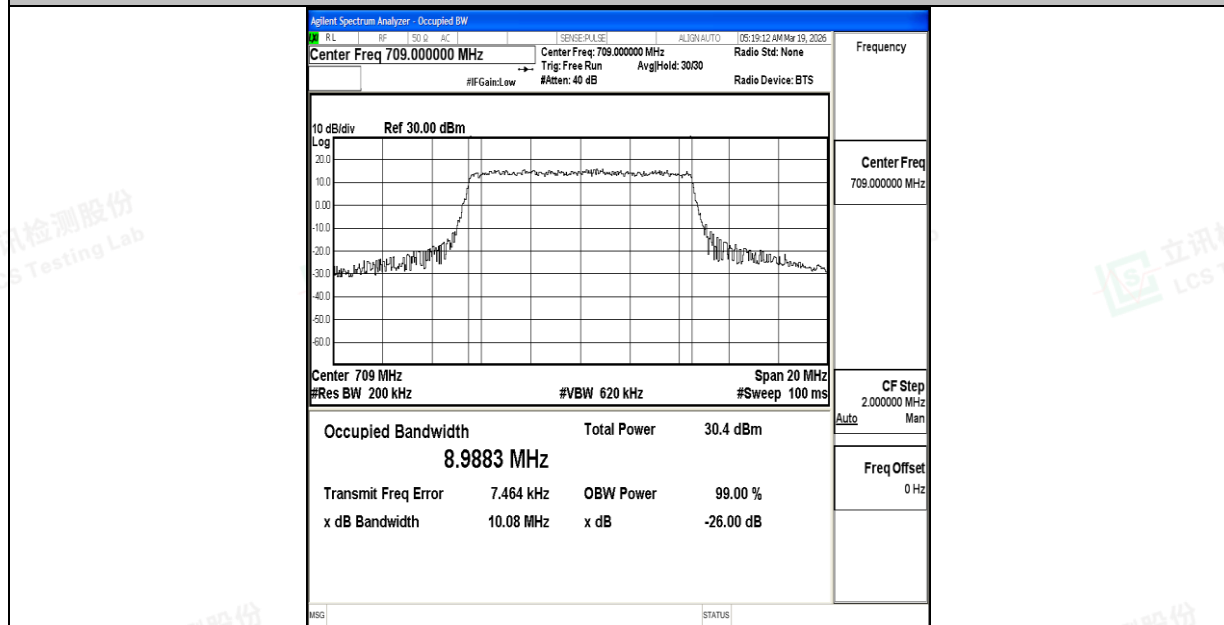
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Band17-10MHz-QPSK-23780-50RB#0-PASS



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

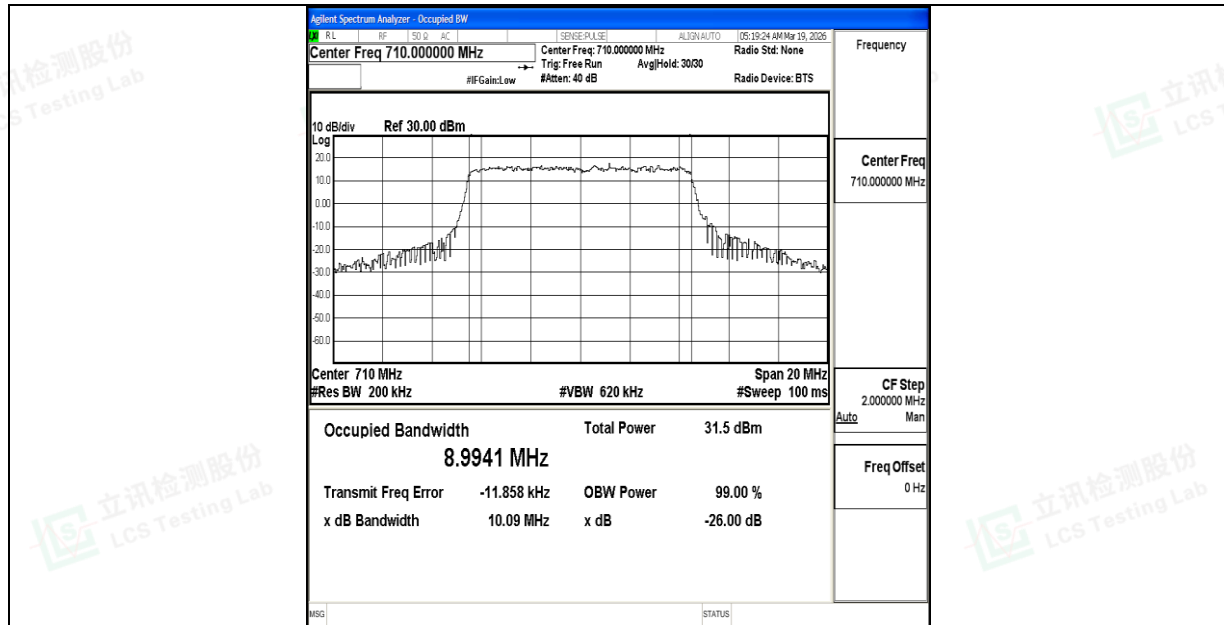


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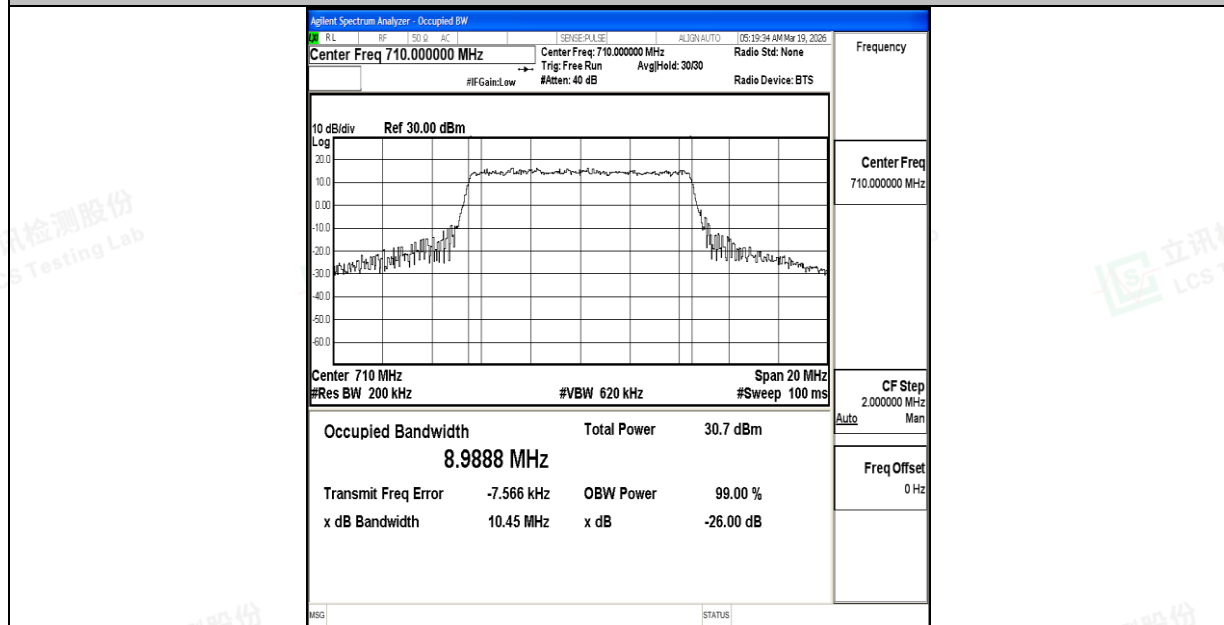
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Band17-10MHz-QPSK-23790-50RB#0-PASS



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

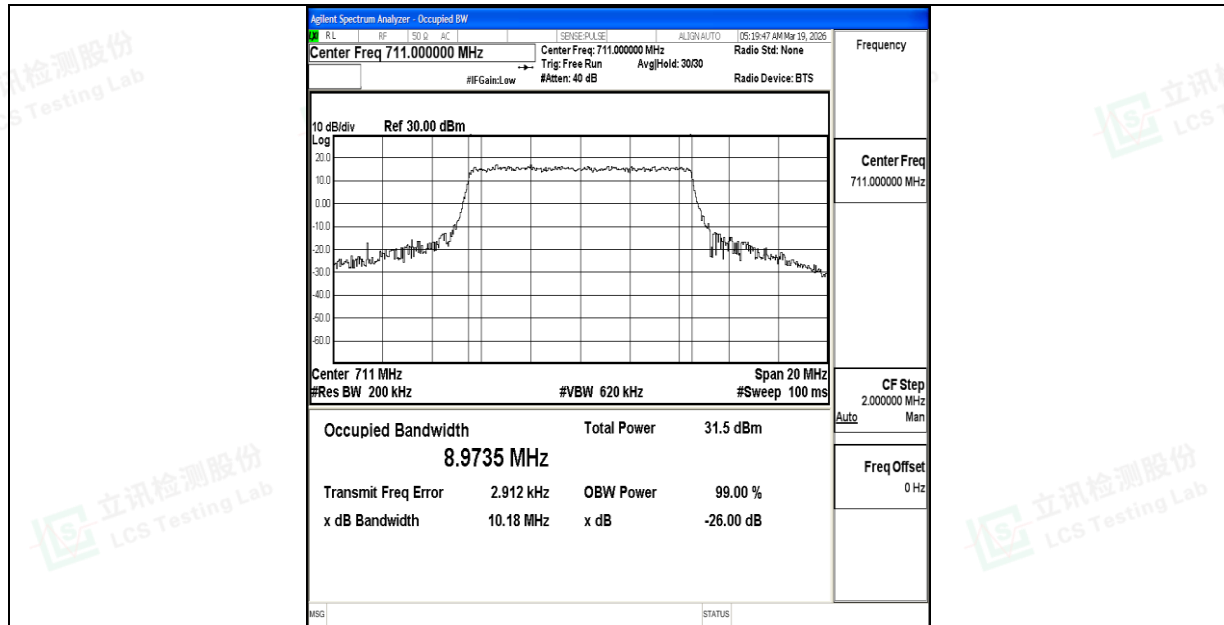


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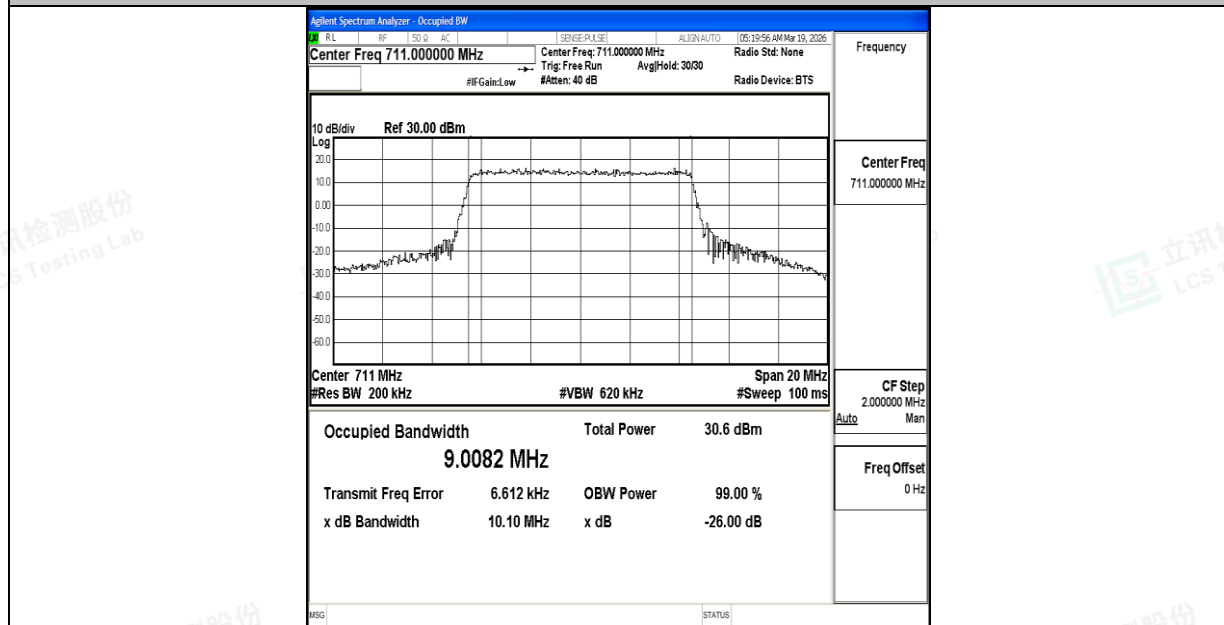
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Band17-10MHz-QPSK-23800-50RB#0-PASS



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



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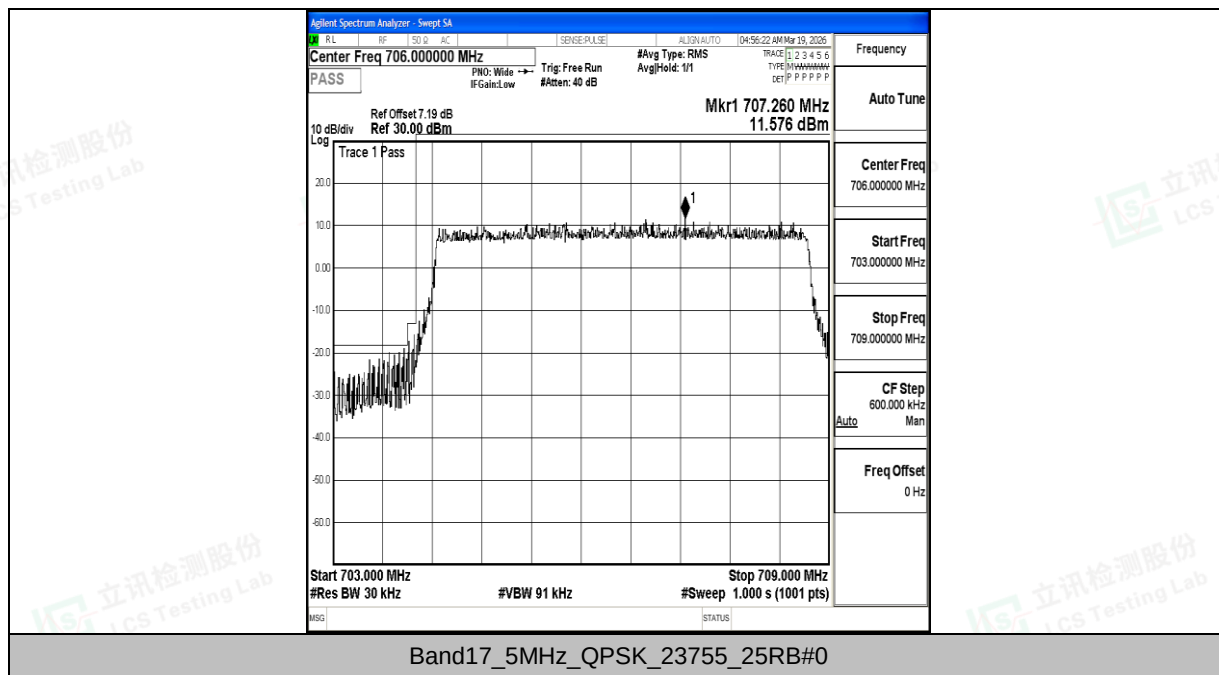


H.4 Band Edge

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Peak Frequency	Result(dBm)	Verdict
Band17	5MHz	QPSK	23755	25RB#0	703.86	-19.03	PASS
Band17	5MHz	16QAM	23755	25RB#0	703.86	-19.35	PASS
Band17	5MHz	QPSK	23825	25RB#0	716.10	-18.95	PASS
Band17	5MHz	16QAM	23825	25RB#0	716.15	-18.28	PASS
Band17	10MHz	QPSK	23780	50RB#0	703.88	-26.28	PASS
Band17	10MHz	16QAM	23780	50RB#0	703.87	-28.52	PASS
Band17	10MHz	QPSK	23800	50RB#0	716.13	-23.00	PASS
Band17	10MHz	16QAM	23800	50RB#0	716.25	-24.65	PASS

Test Graphs

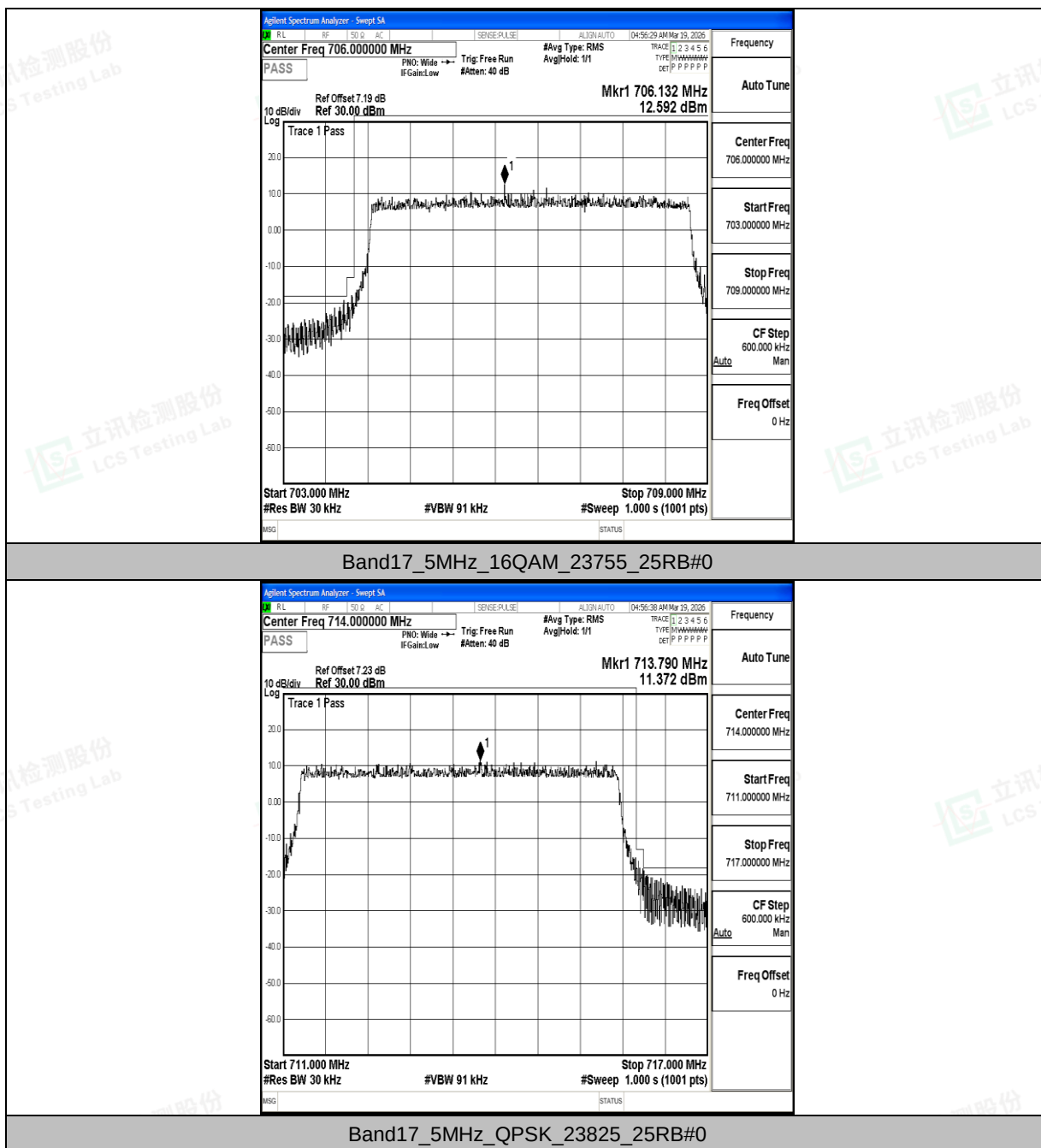


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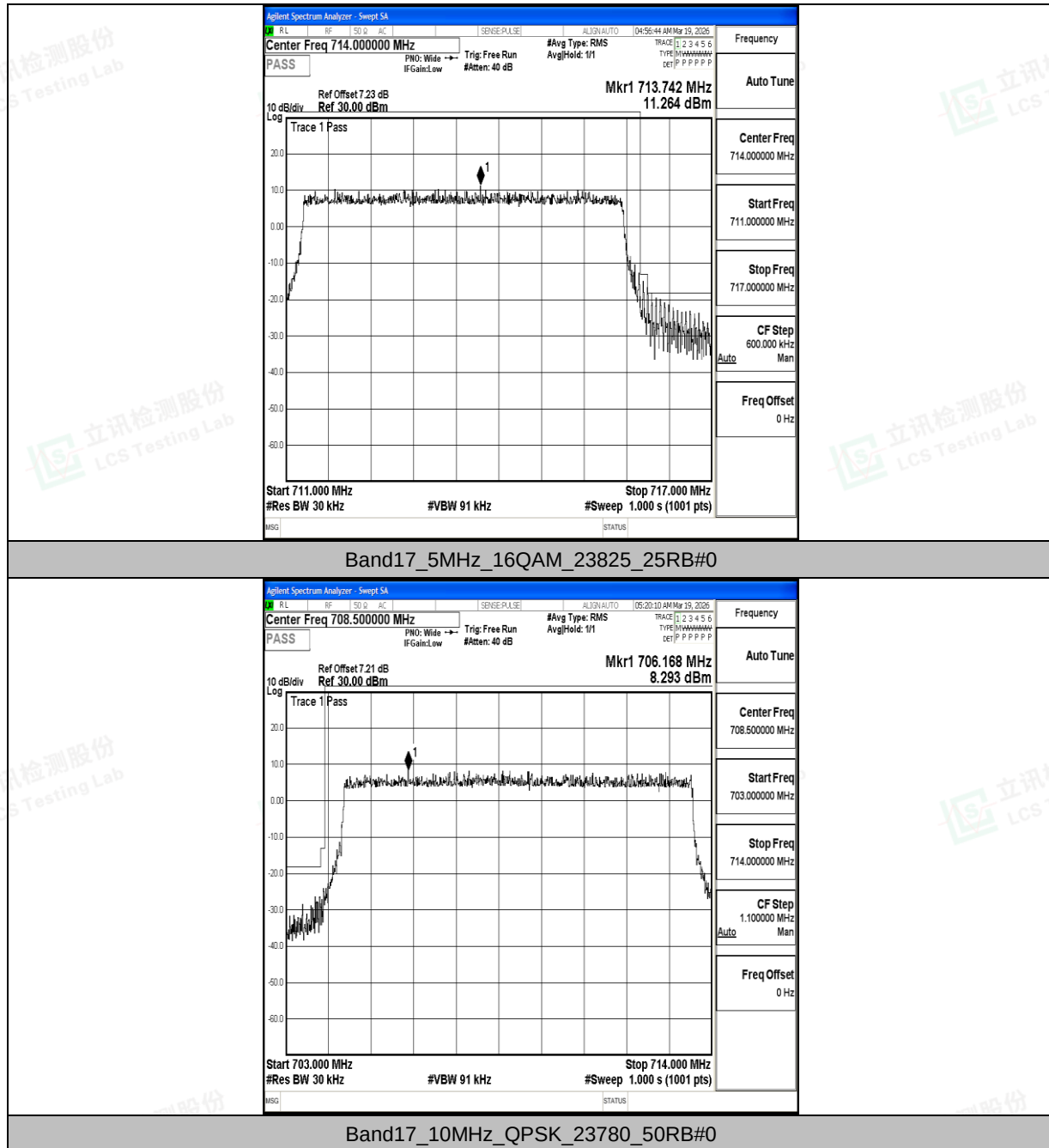


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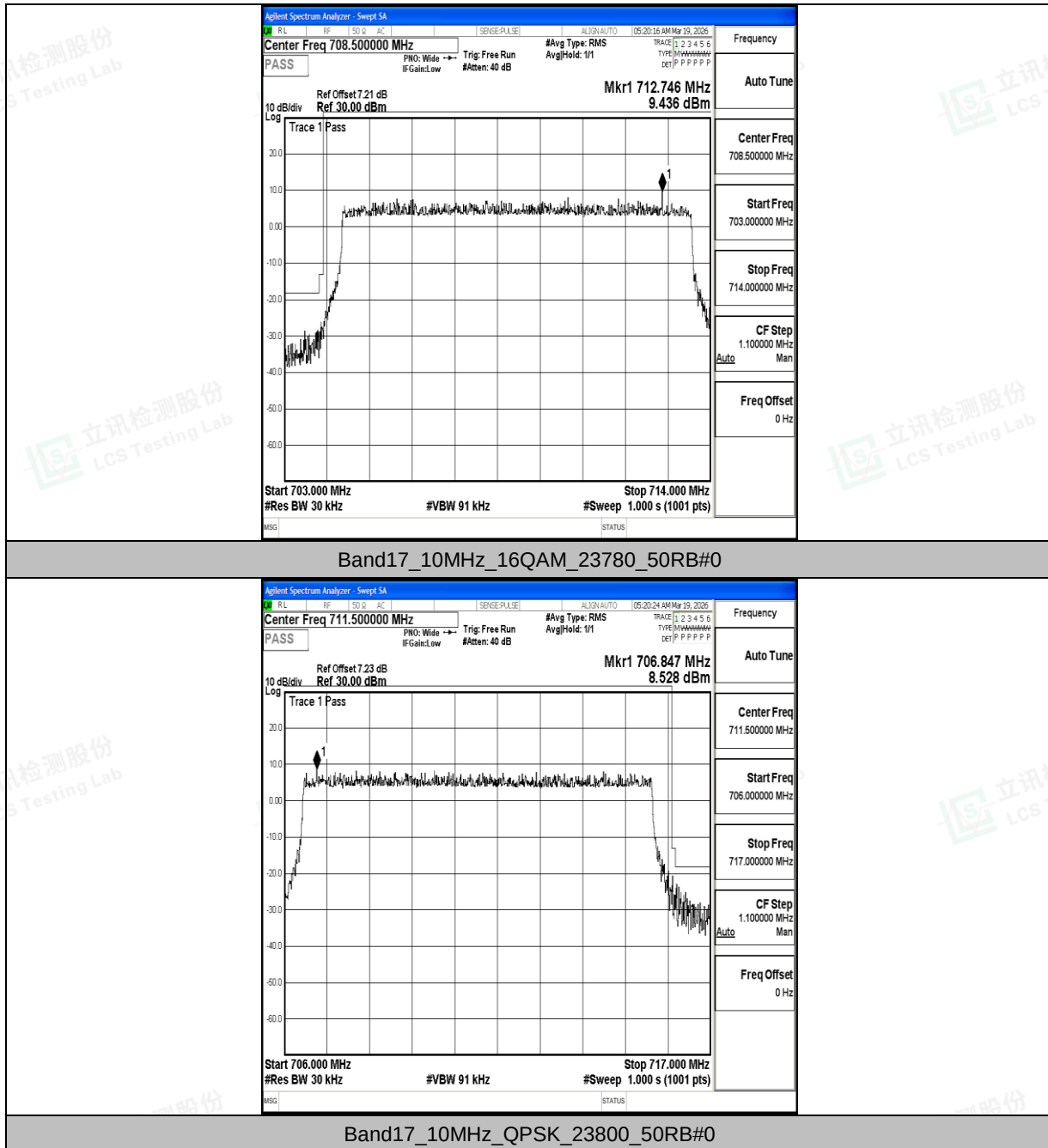


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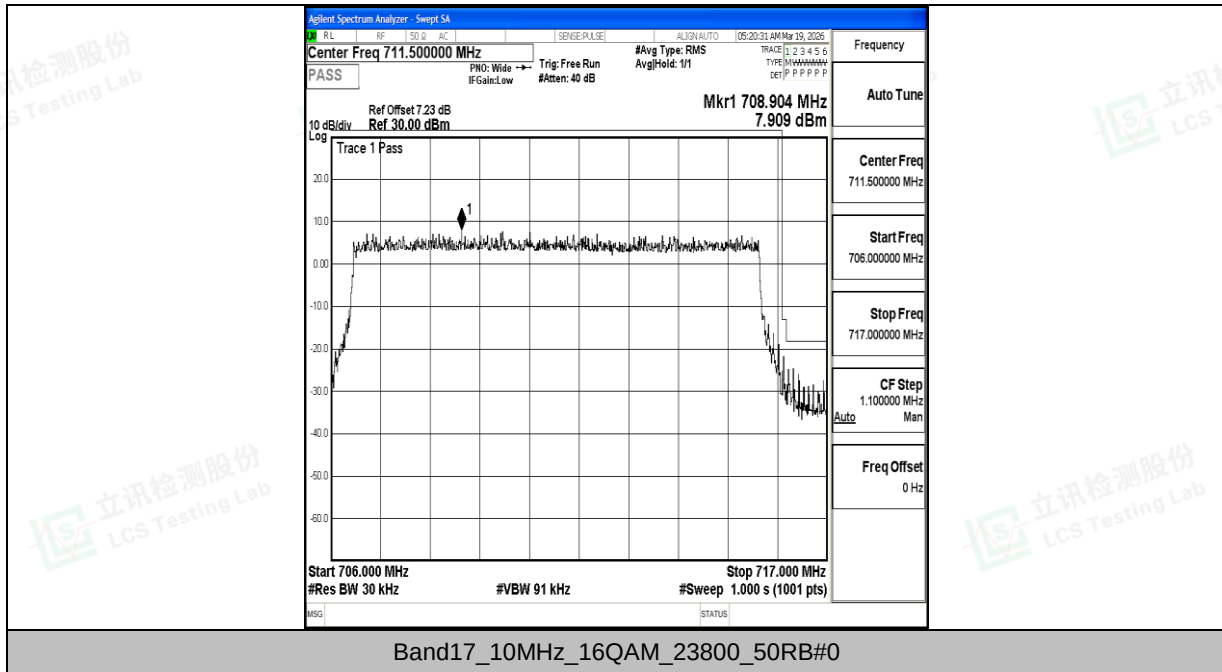


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H.5 Conducted Spurious Emission

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Frequency Range	Result (dBm)	Verdict
Band17	5MHz	QPSK	23755	1RB#0	0.009~0.15	-61.77	PASS
Band17	5MHz	QPSK	23755	1RB#0	0.15~30	-45.51	PASS
Band17	5MHz	QPSK	23755	1RB#0	30~1000	-42.43	PASS
Band17	5MHz	QPSK	23755	1RB#0	1000~3000	-38.53	PASS
Band17	5MHz	QPSK	23755	1RB#0	3000~10000	-35.29	PASS
Band17	5MHz	16QAM	23755	1RB#0	0.009~0.15	-57.95	PASS
Band17	5MHz	16QAM	23755	1RB#0	0.15~30	-47.53	PASS
Band17	5MHz	16QAM	23755	1RB#0	30~1000	-42.04	PASS
Band17	5MHz	16QAM	23755	1RB#0	1000~3000	-37.29	PASS
Band17	5MHz	16QAM	23755	1RB#0	3000~10000	-35.12	PASS
Band17	5MHz	QPSK	23790	1RB#0	0.009~0.15	-58.47	PASS
Band17	5MHz	QPSK	23790	1RB#0	0.15~30	-47.73	PASS
Band17	5MHz	QPSK	23790	1RB#0	30~1000	-43.76	PASS
Band17	5MHz	QPSK	23790	1RB#0	1000~3000	-36.34	PASS
Band17	5MHz	QPSK	23790	1RB#0	3000~10000	-35.33	PASS
Band17	5MHz	16QAM	23790	1RB#0	0.009~0.15	-57.47	PASS
Band17	5MHz	16QAM	23790	1RB#0	0.15~30	-47.79	PASS
Band17	5MHz	16QAM	23790	1RB#0	30~1000	-45.27	PASS
Band17	5MHz	16QAM	23790	1RB#0	1000~3000	-38.81	PASS
Band17	5MHz	16QAM	23790	1RB#0	3000~10000	-34.29	PASS
Band17	5MHz	QPSK	23825	1RB#0	0.009~0.15	-58.24	PASS
Band17	5MHz	QPSK	23825	1RB#0	0.15~30	-46.94	PASS
Band17	5MHz	QPSK	23825	1RB#0	30~1000	-41.75	PASS
Band17	5MHz	QPSK	23825	1RB#0	1000~3000	-37.53	PASS
Band17	5MHz	QPSK	23825	1RB#0	3000~10000	-35.90	PASS
Band17	5MHz	16QAM	23825	1RB#0	0.009~0.15	-56.06	PASS
Band17	5MHz	16QAM	23825	1RB#0	0.15~30	-45.58	PASS
Band17	5MHz	16QAM	23825	1RB#0	30~1000	-41.24	PASS
Band17	5MHz	16QAM	23825	1RB#0	1000~3000	-37.49	PASS
Band17	5MHz	16QAM	23825	1RB#0	3000~10000	-35.34	PASS
Band17	10MHz	QPSK	23780	1RB#0	0.009~0.15	-59.76	PASS
Band17	10MHz	QPSK	23780	1RB#0	0.15~30	-47.62	PASS
Band17	10MHz	QPSK	23780	1RB#0	30~1000	-51.14	PASS
Band17	10MHz	QPSK	23780	1RB#0	1000~3000	-36.31	PASS
Band17	10MHz	QPSK	23780	1RB#0	3000~10000	-35.74	PASS
Band17	10MHz	16QAM	23780	1RB#0	0.009~0.15	-59.41	PASS



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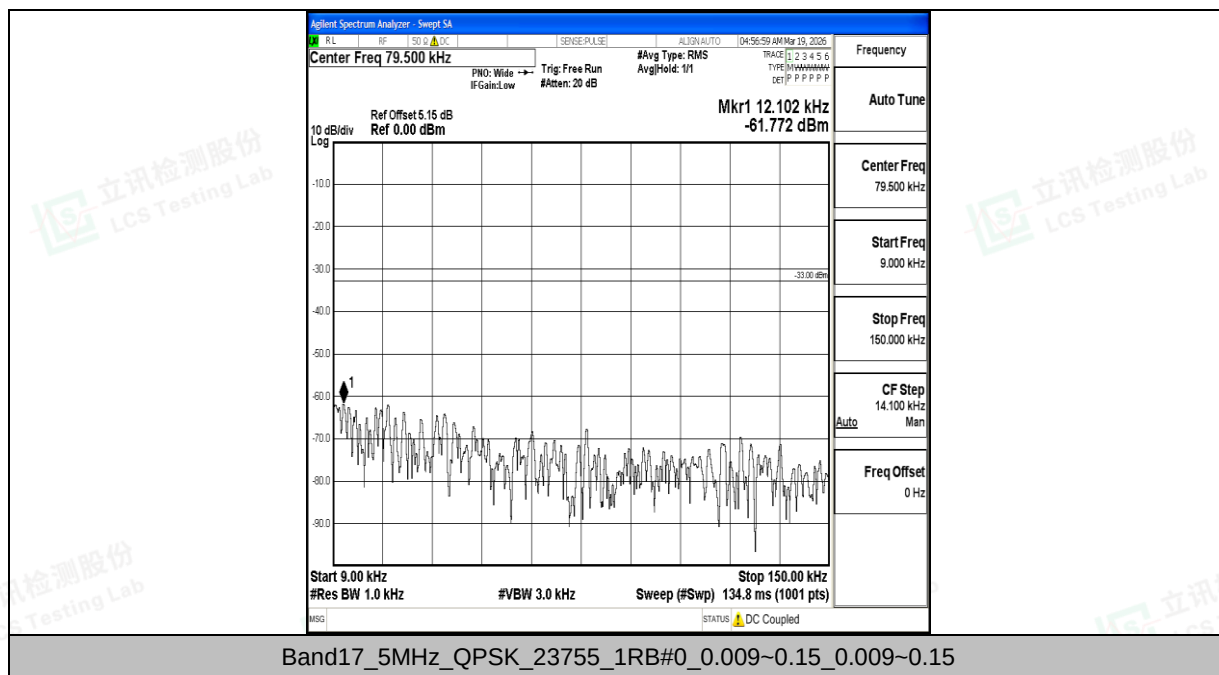
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Band17	10MHz	16QAM	23780	1RB#0	0.15~30	-49.17	PASS
Band17	10MHz	16QAM	23780	1RB#0	30~1000	-52.46	PASS
Band17	10MHz	16QAM	23780	1RB#0	1000~3000	-35.67	PASS
Band17	10MHz	16QAM	23780	1RB#0	3000~10000	-35.10	PASS
Band17	10MHz	QPSK	23790	1RB#0	0.009~0.15	-57.80	PASS
Band17	10MHz	QPSK	23790	1RB#0	0.15~30	-45.84	PASS
Band17	10MHz	QPSK	23790	1RB#0	30~1000	-51.87	PASS
Band17	10MHz	QPSK	23790	1RB#0	1000~3000	-37.83	PASS
Band17	10MHz	QPSK	23790	1RB#0	3000~10000	-35.09	PASS
Band17	10MHz	16QAM	23790	1RB#0	0.009~0.15	-61.24	PASS
Band17	10MHz	16QAM	23790	1RB#0	0.15~30	-44.21	PASS
Band17	10MHz	16QAM	23790	1RB#0	30~1000	-52.09	PASS
Band17	10MHz	16QAM	23790	1RB#0	1000~3000	-37.68	PASS
Band17	10MHz	16QAM	23790	1RB#0	3000~10000	-35.38	PASS
Band17	10MHz	QPSK	23800	1RB#0	0.009~0.15	-58.46	PASS
Band17	10MHz	QPSK	23800	1RB#0	0.15~30	-44.88	PASS
Band17	10MHz	QPSK	23800	1RB#0	30~1000	-53.35	PASS
Band17	10MHz	QPSK	23800	1RB#0	1000~3000	-38.06	PASS
Band17	10MHz	QPSK	23800	1RB#0	3000~10000	-34.83	PASS
Band17	10MHz	16QAM	23800	1RB#0	0.009~0.15	-57.03	PASS
Band17	10MHz	16QAM	23800	1RB#0	0.15~30	-47.63	PASS
Band17	10MHz	16QAM	23800	1RB#0	30~1000	-53.06	PASS
Band17	10MHz	16QAM	23800	1RB#0	1000~3000	-37.78	PASS
Band17	10MHz	16QAM	23800	1RB#0	3000~10000	-35.29	PASS

Test Graphs

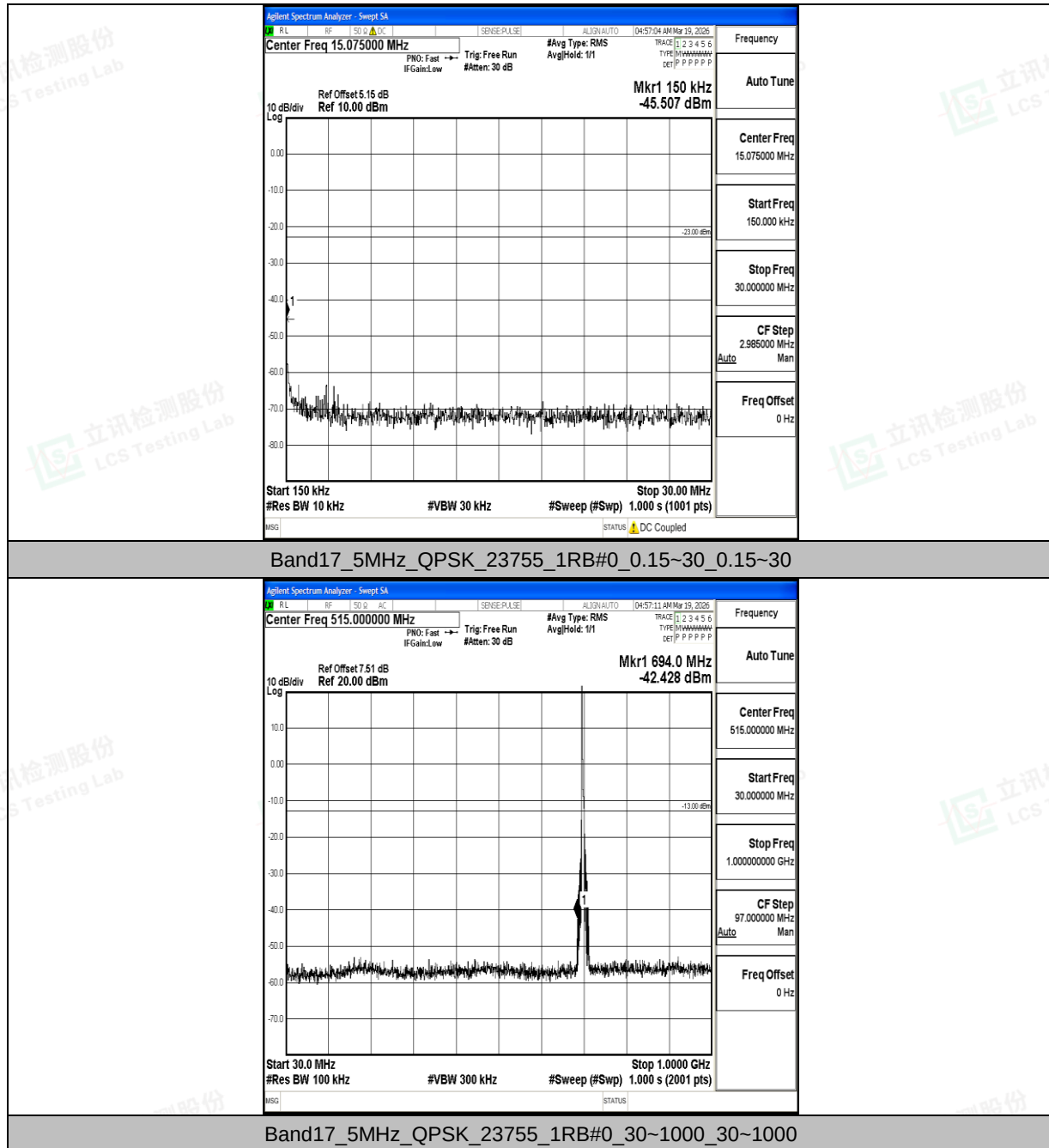


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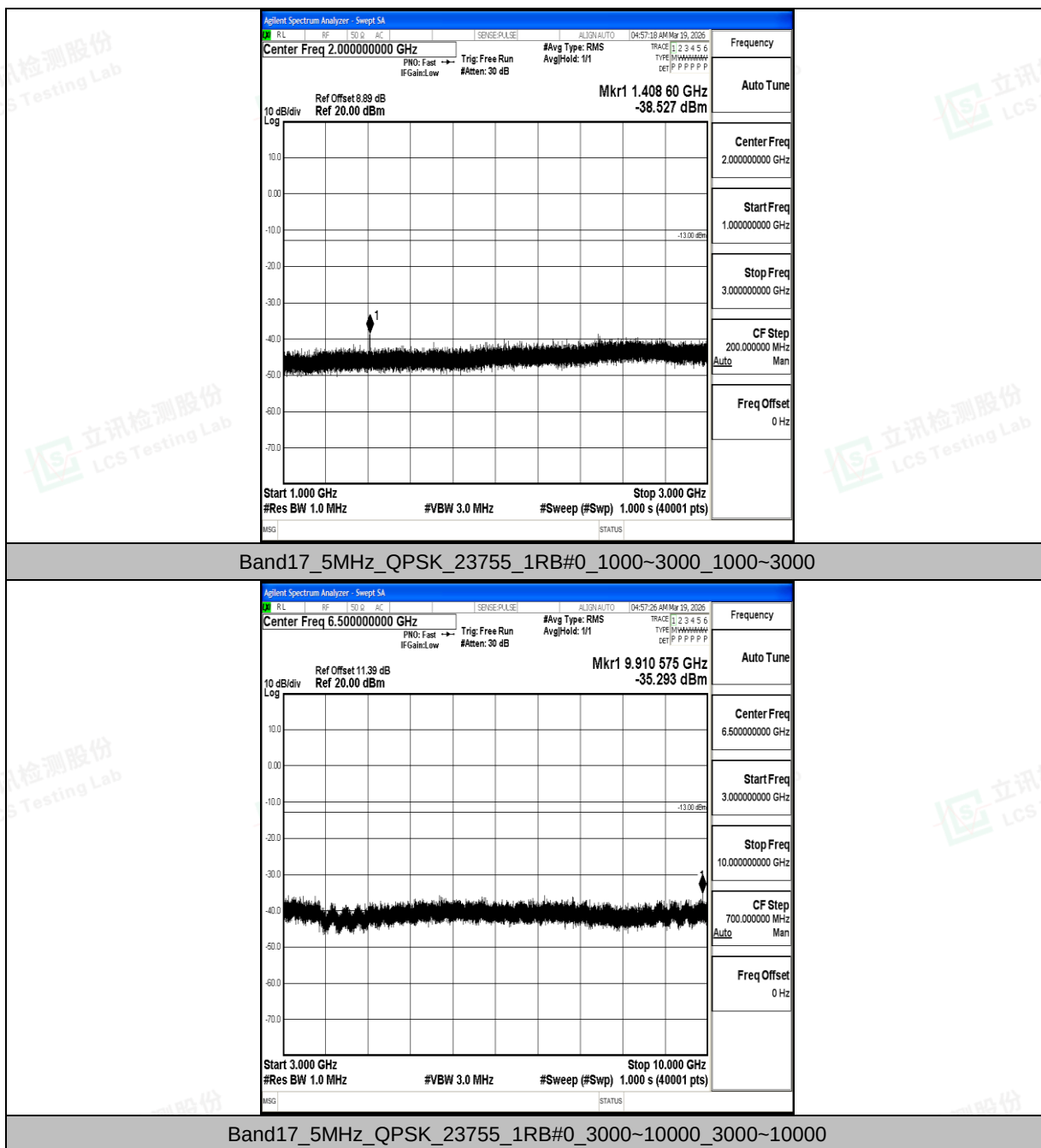


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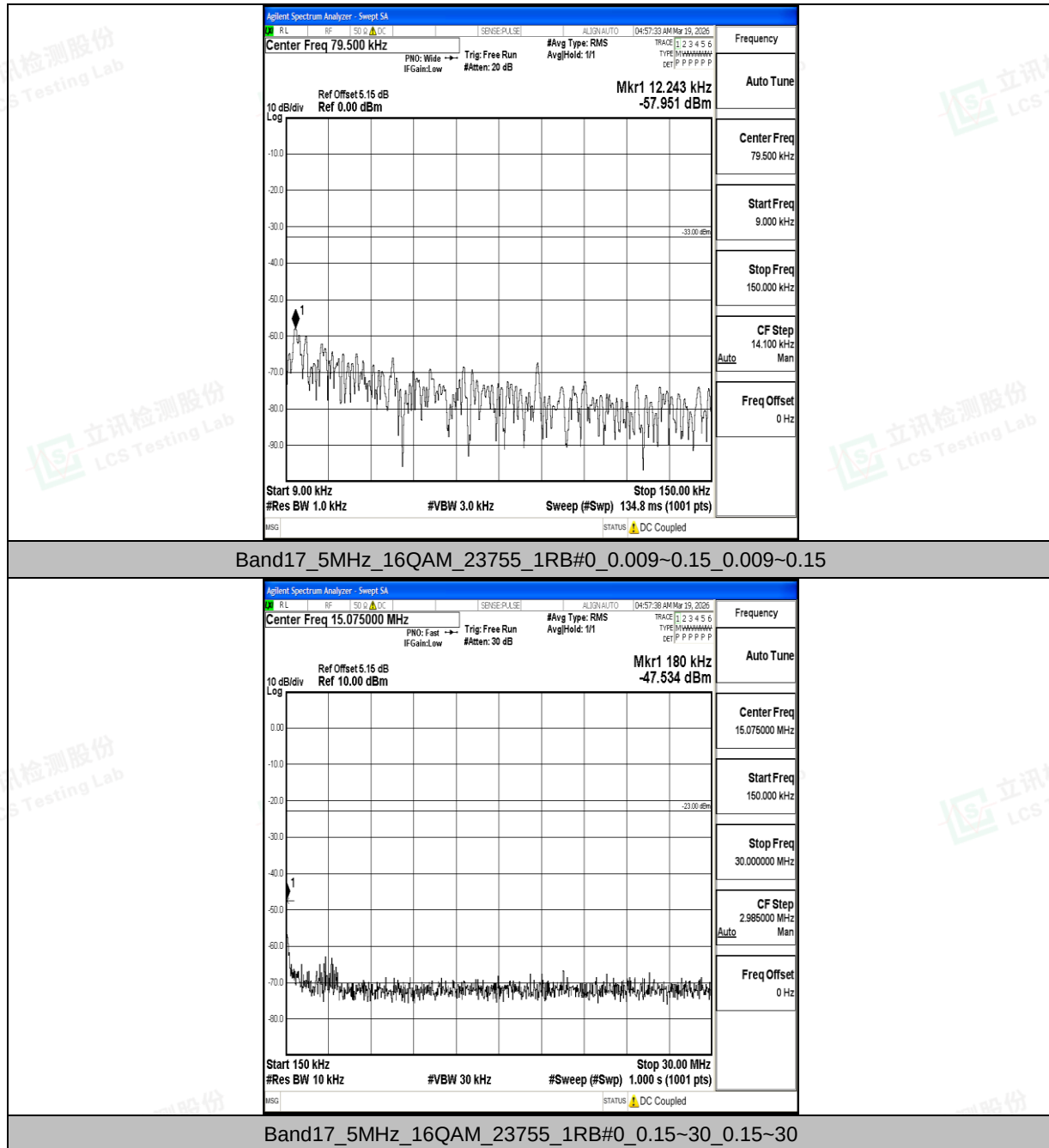


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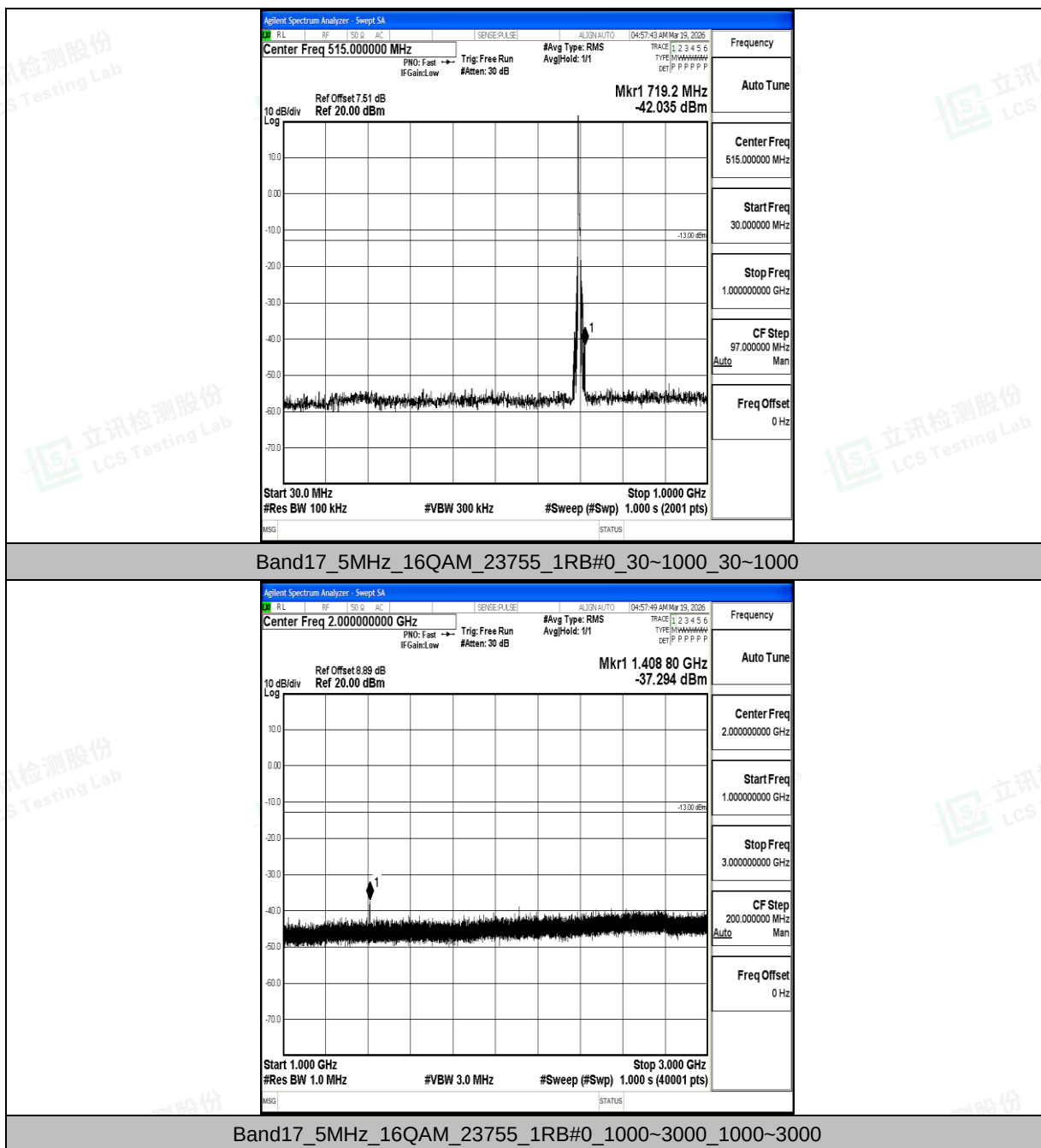


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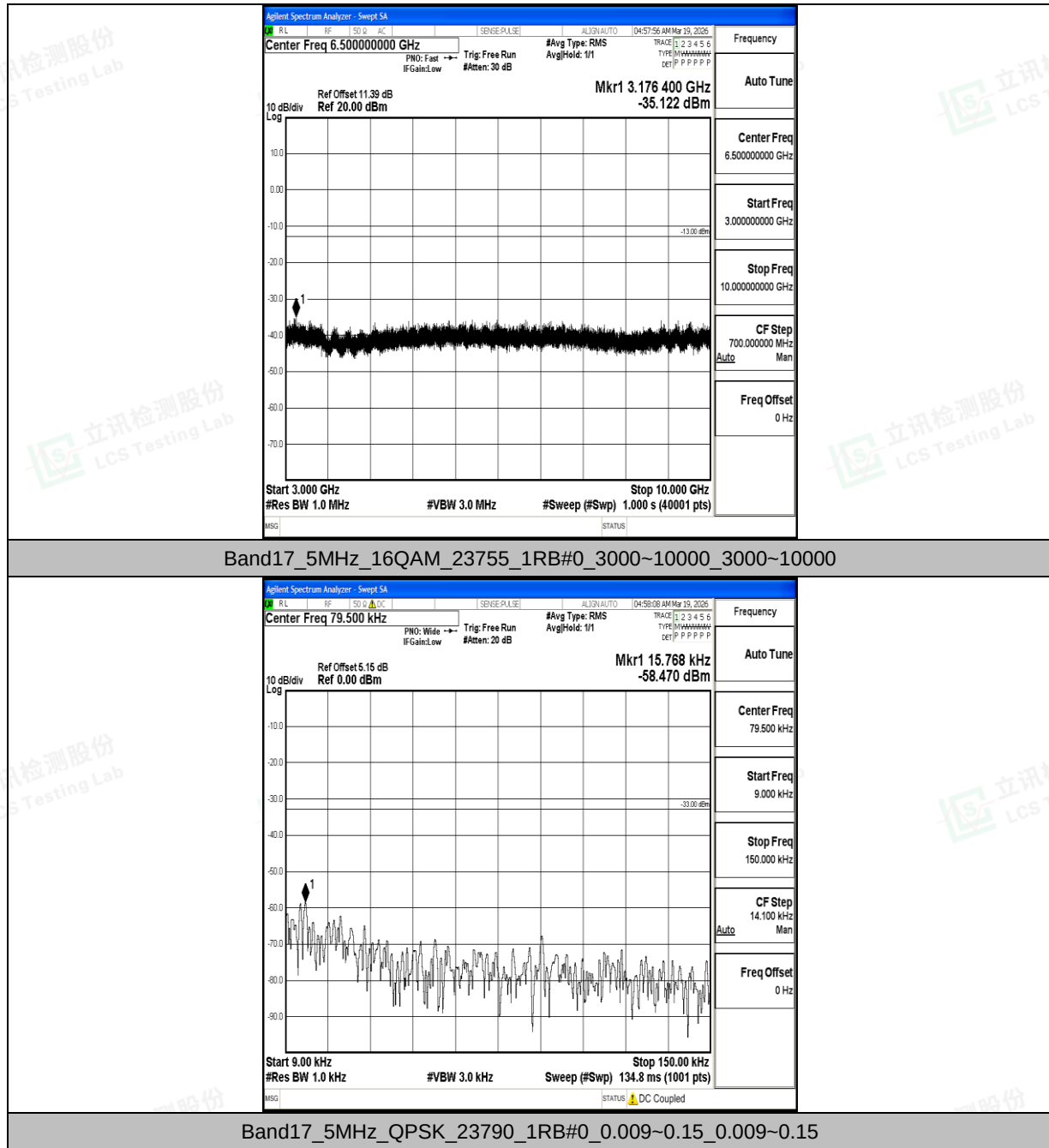


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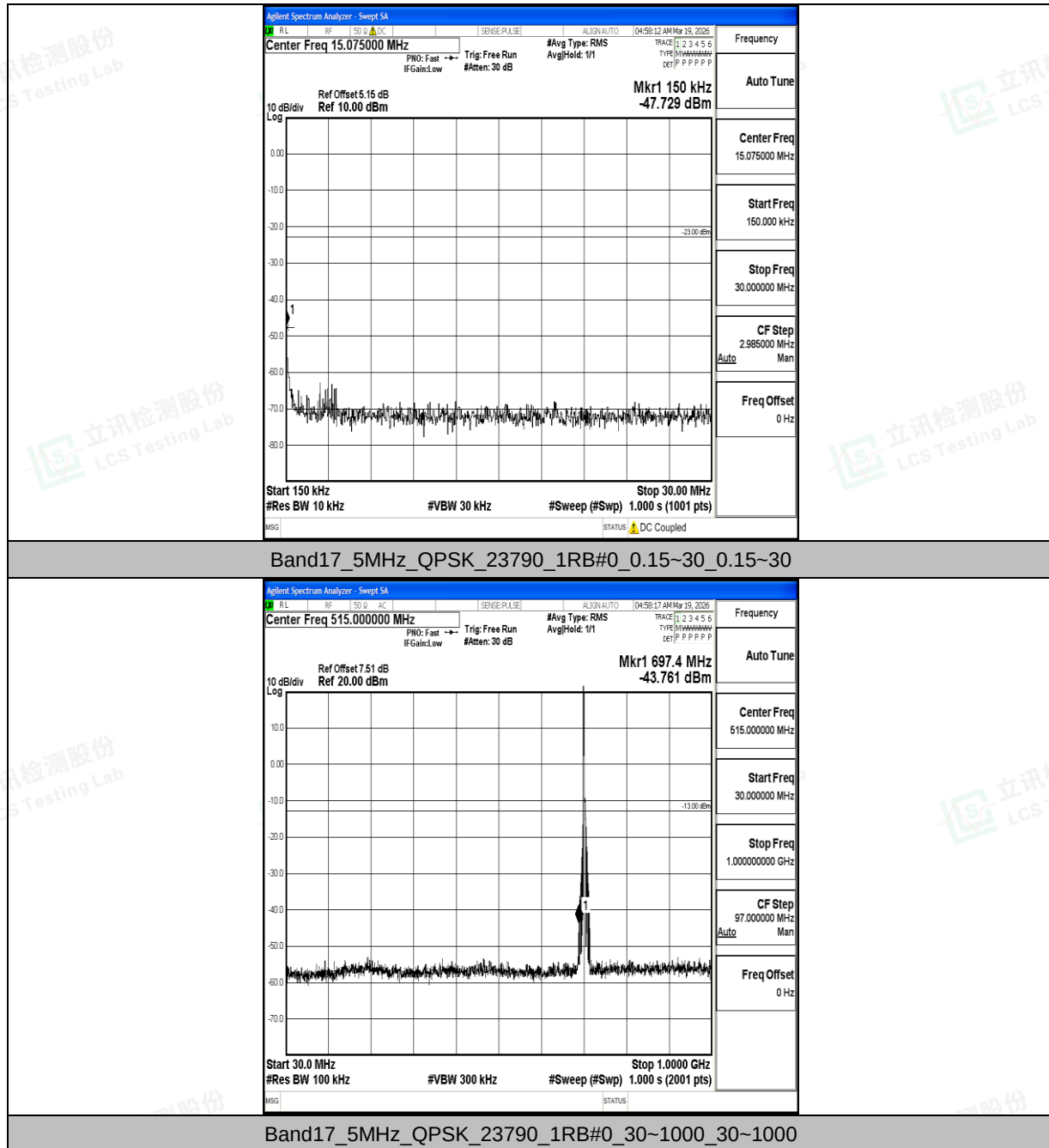


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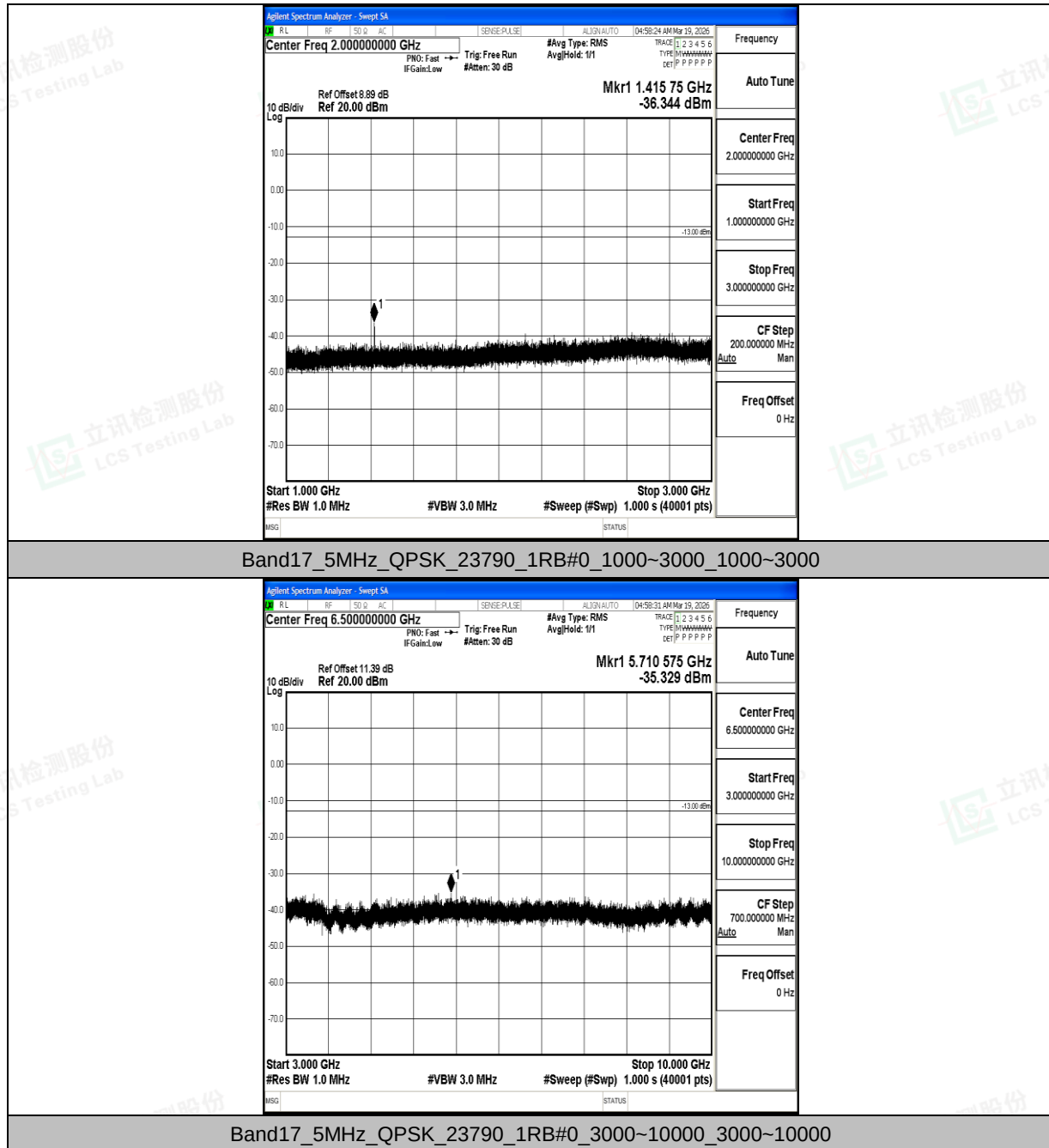


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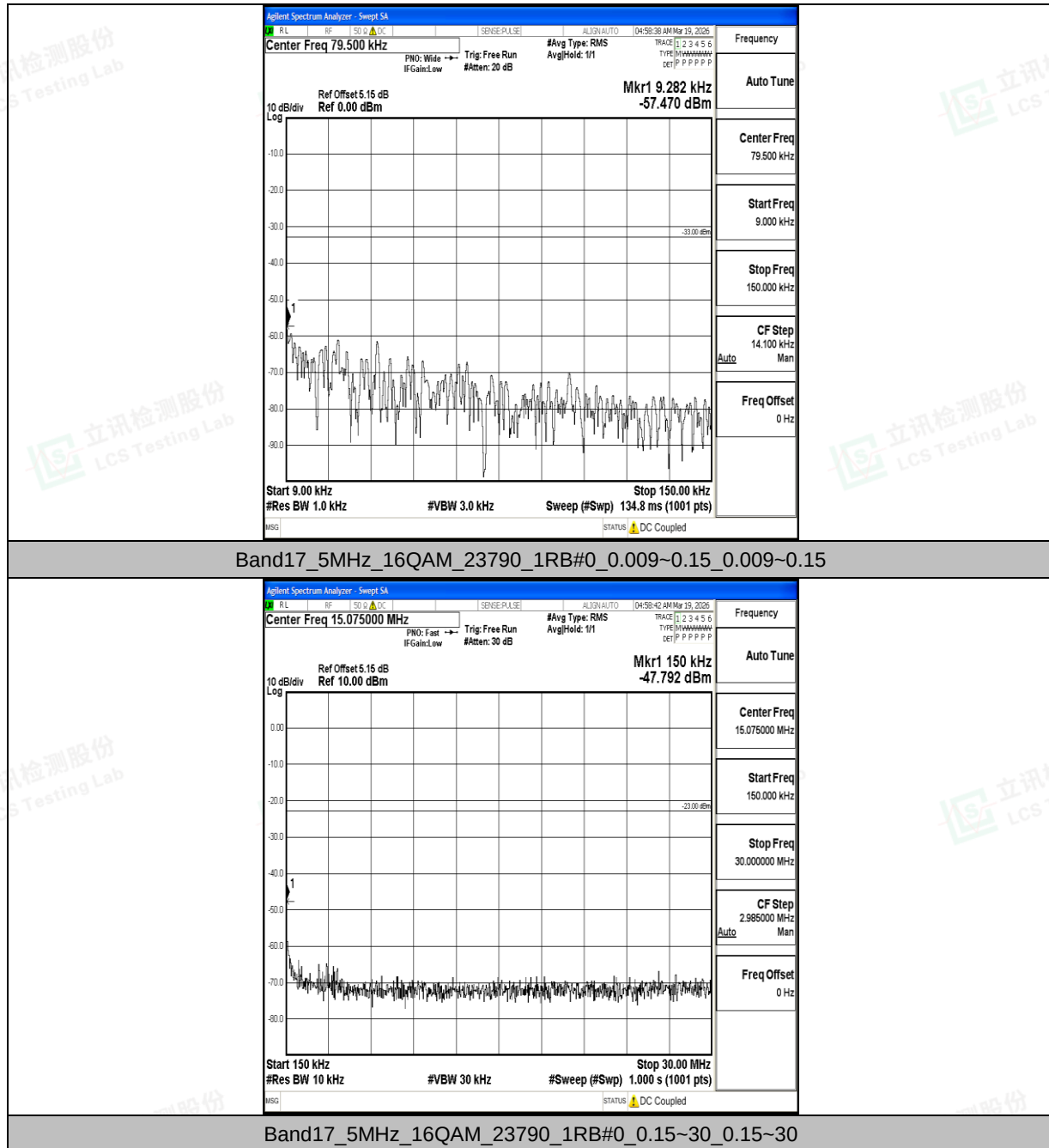


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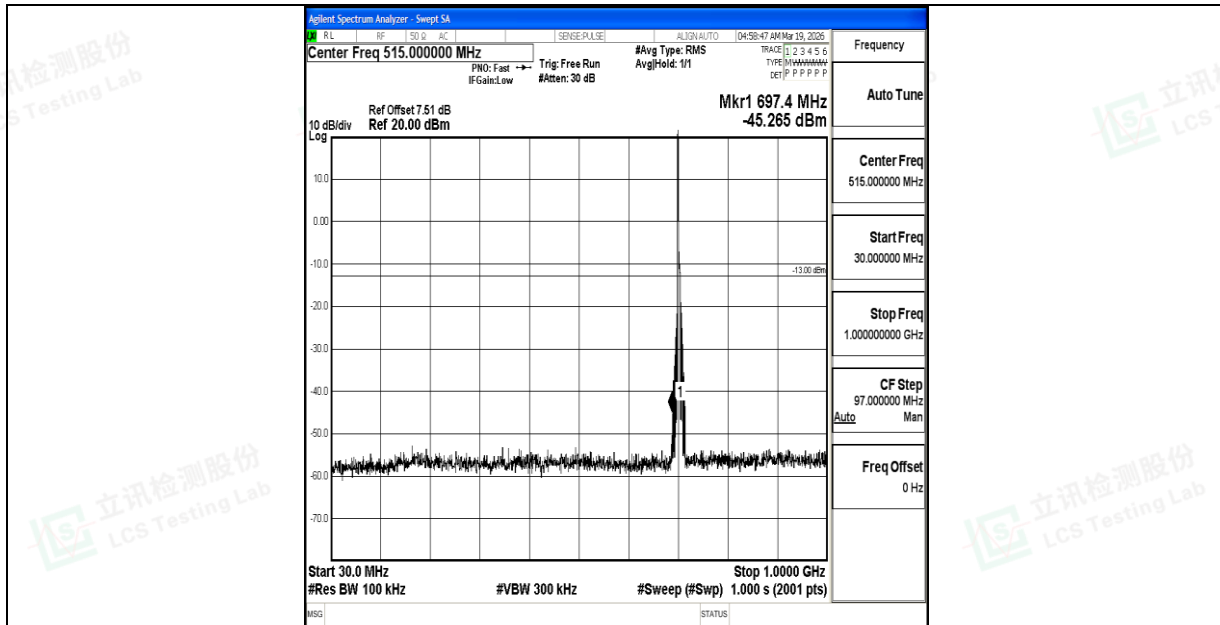


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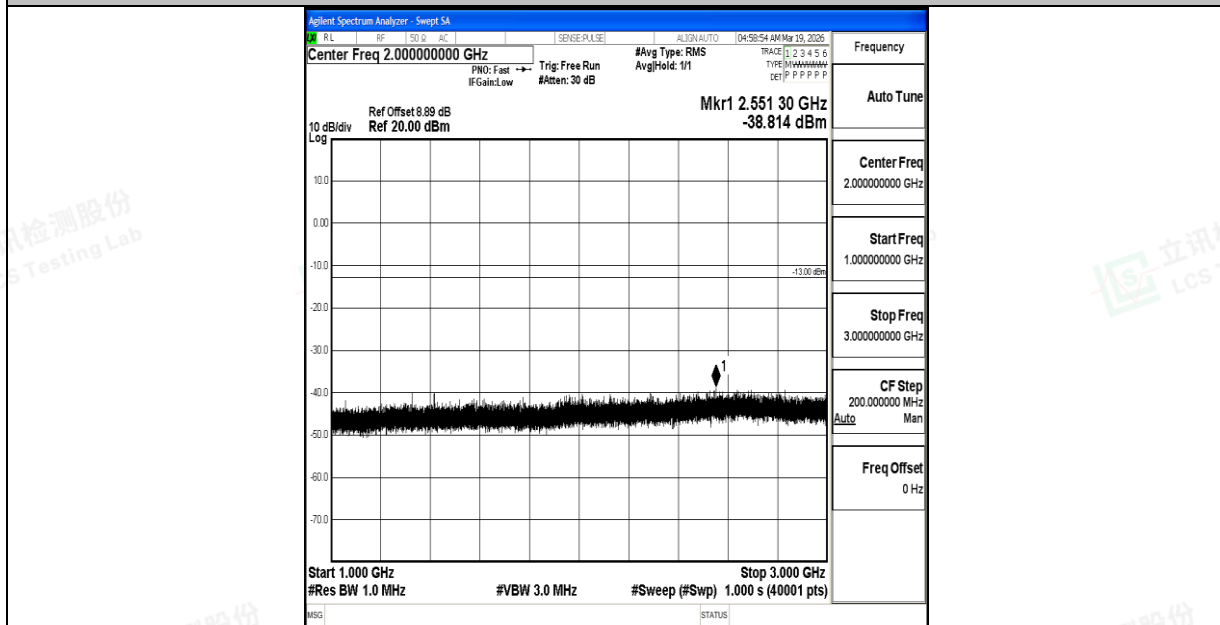
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Band17_5MHz_16QAM_23790_1RB#0_30~1000_30~1000



Band17_5MHz_16QAM_23790_1RB#0_1000~3000_1000~3000

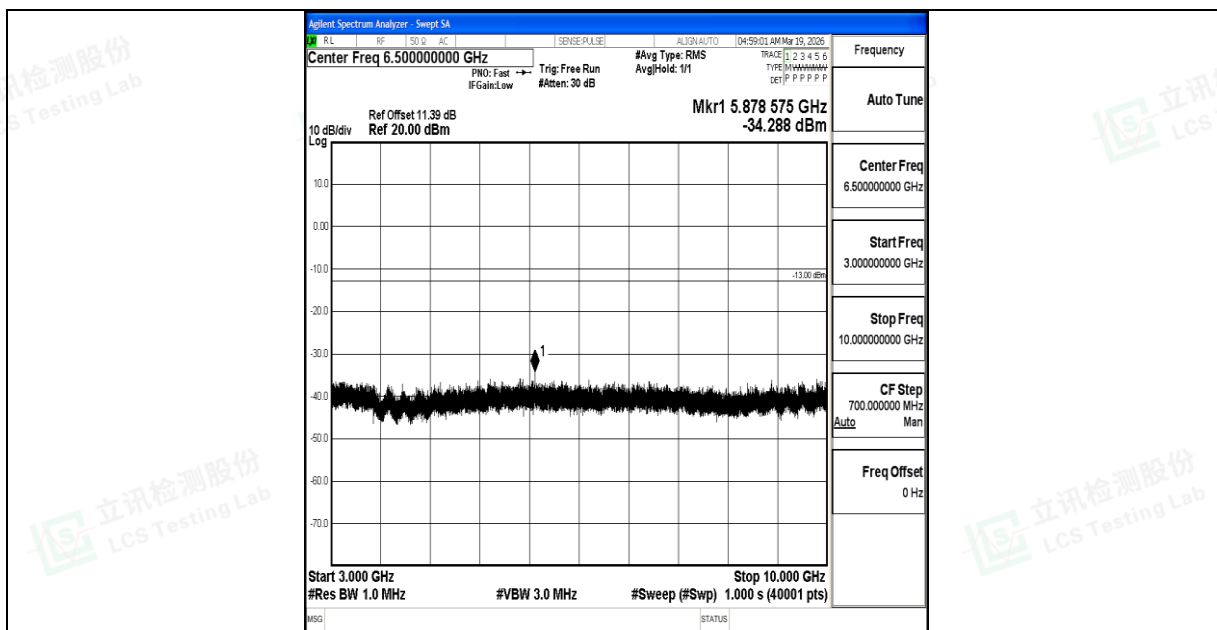


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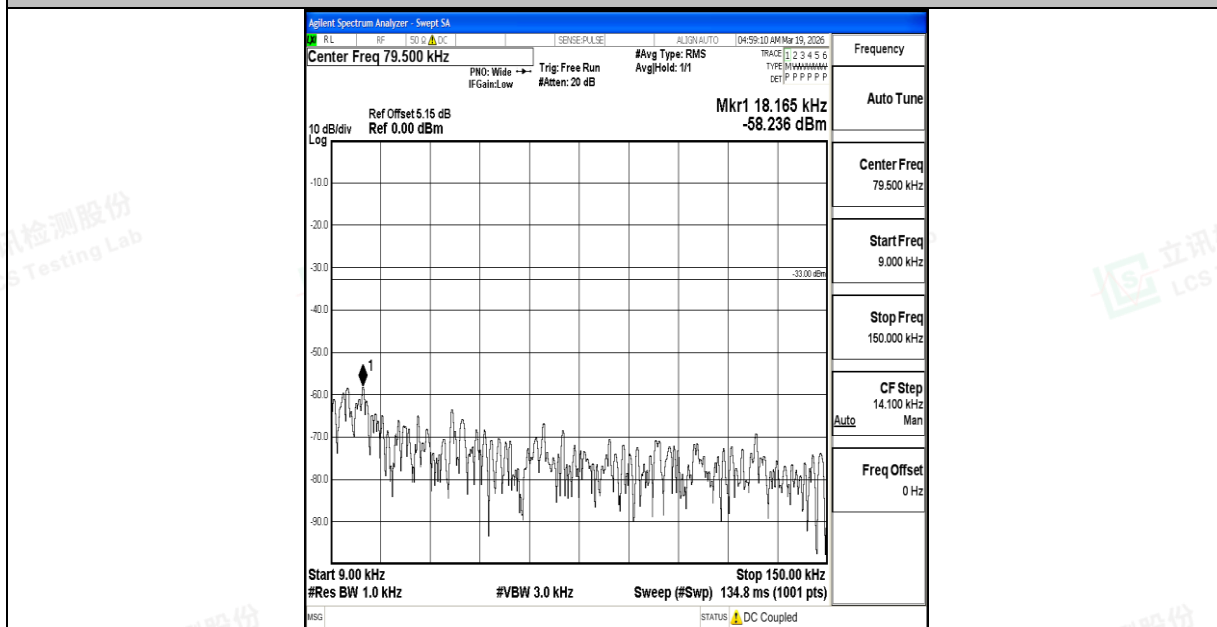
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Band17_5MHz_16QAM_23790_1RB#0_3000~10000_3000~10000



Band17_5MHz_QPSK_23825_1RB#0_0.009~0.15_0.009~0.15

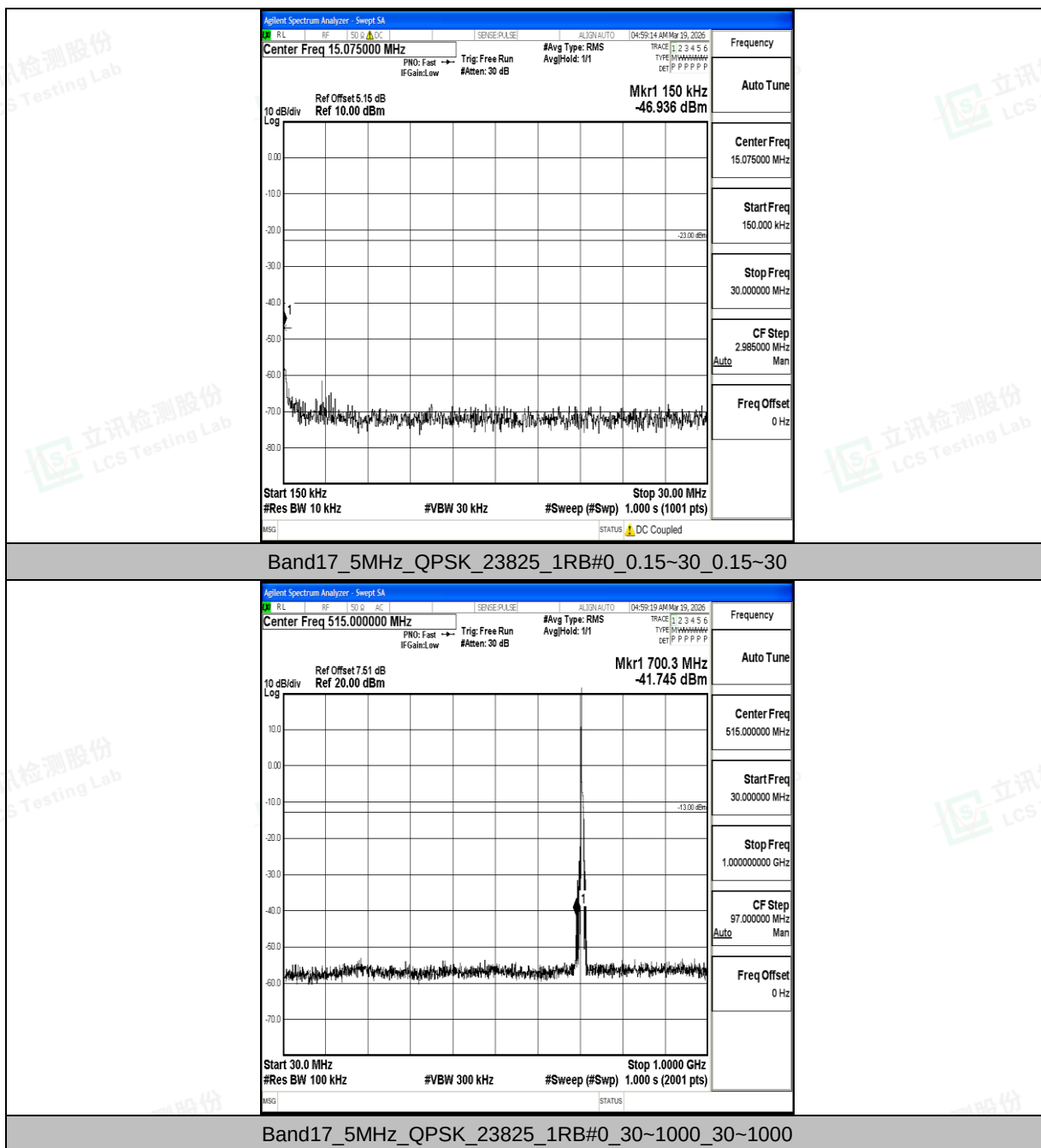


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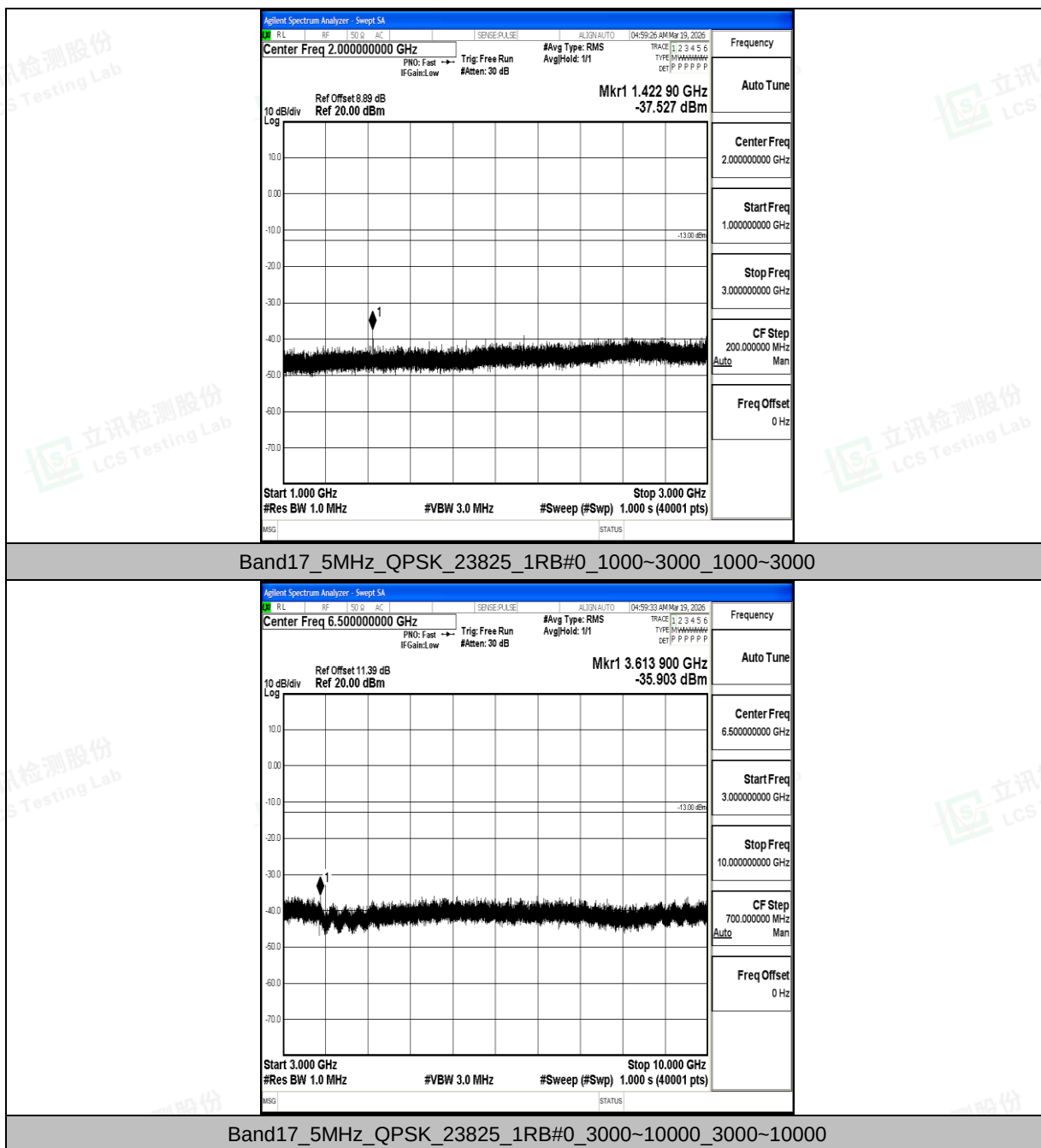


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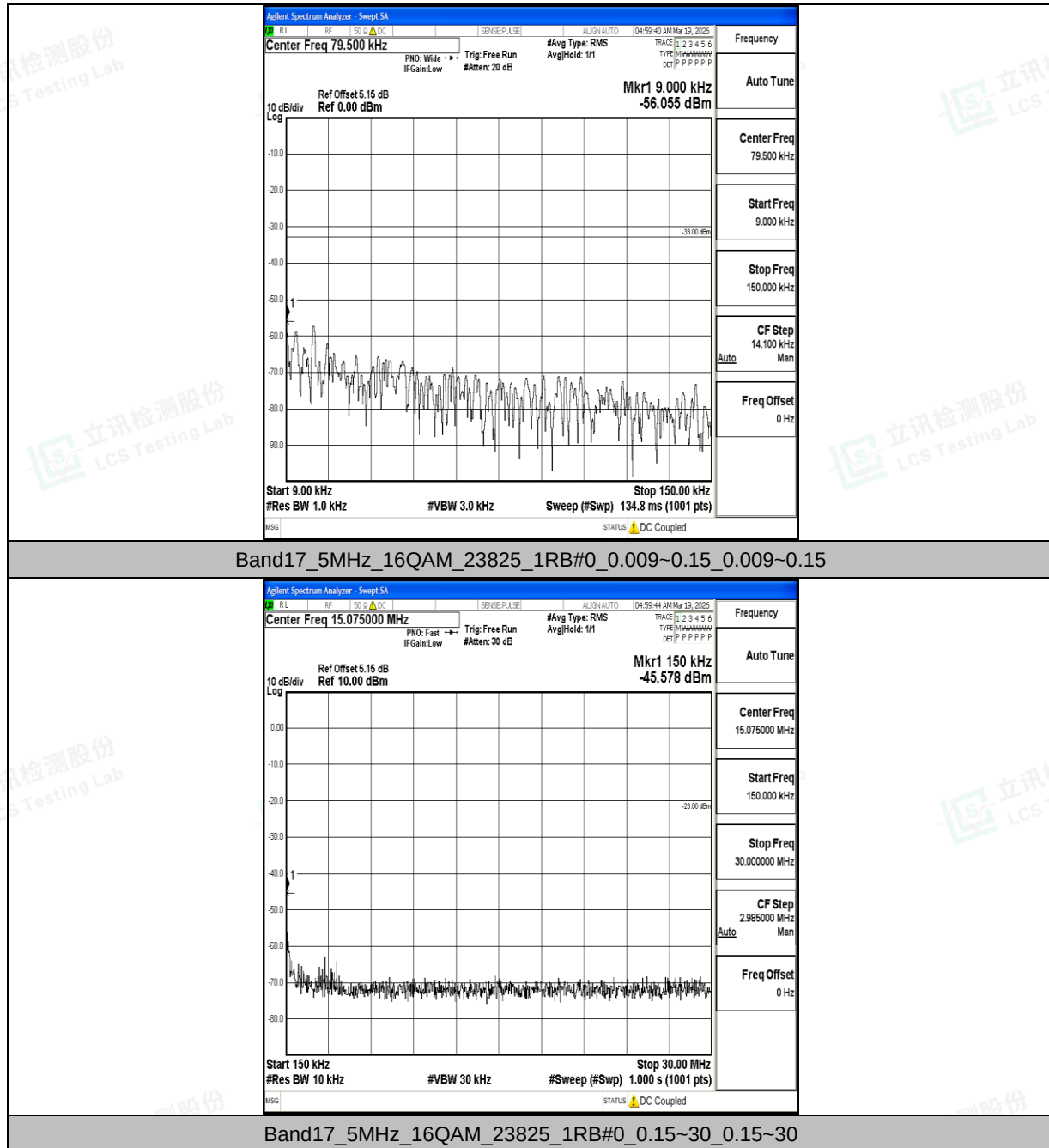


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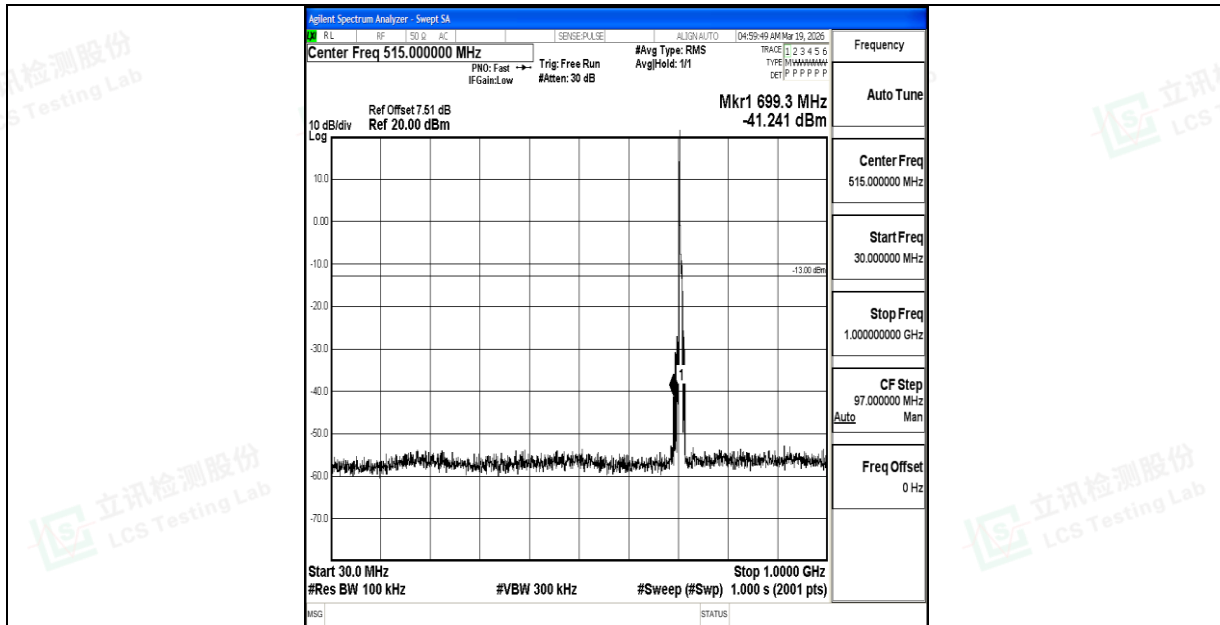


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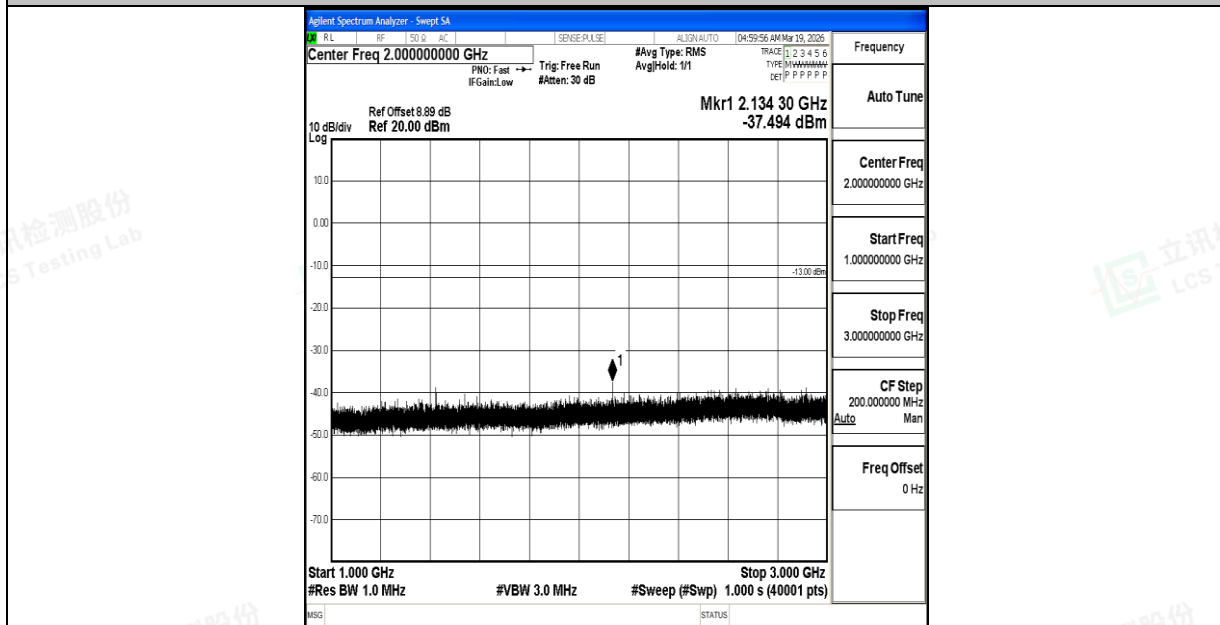
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Band17_5MHz_16QAM_23825_1RB#0_30~1000_30~1000



Band17_5MHz_16QAM_23825_1RB#0_1000~3000_1000~3000

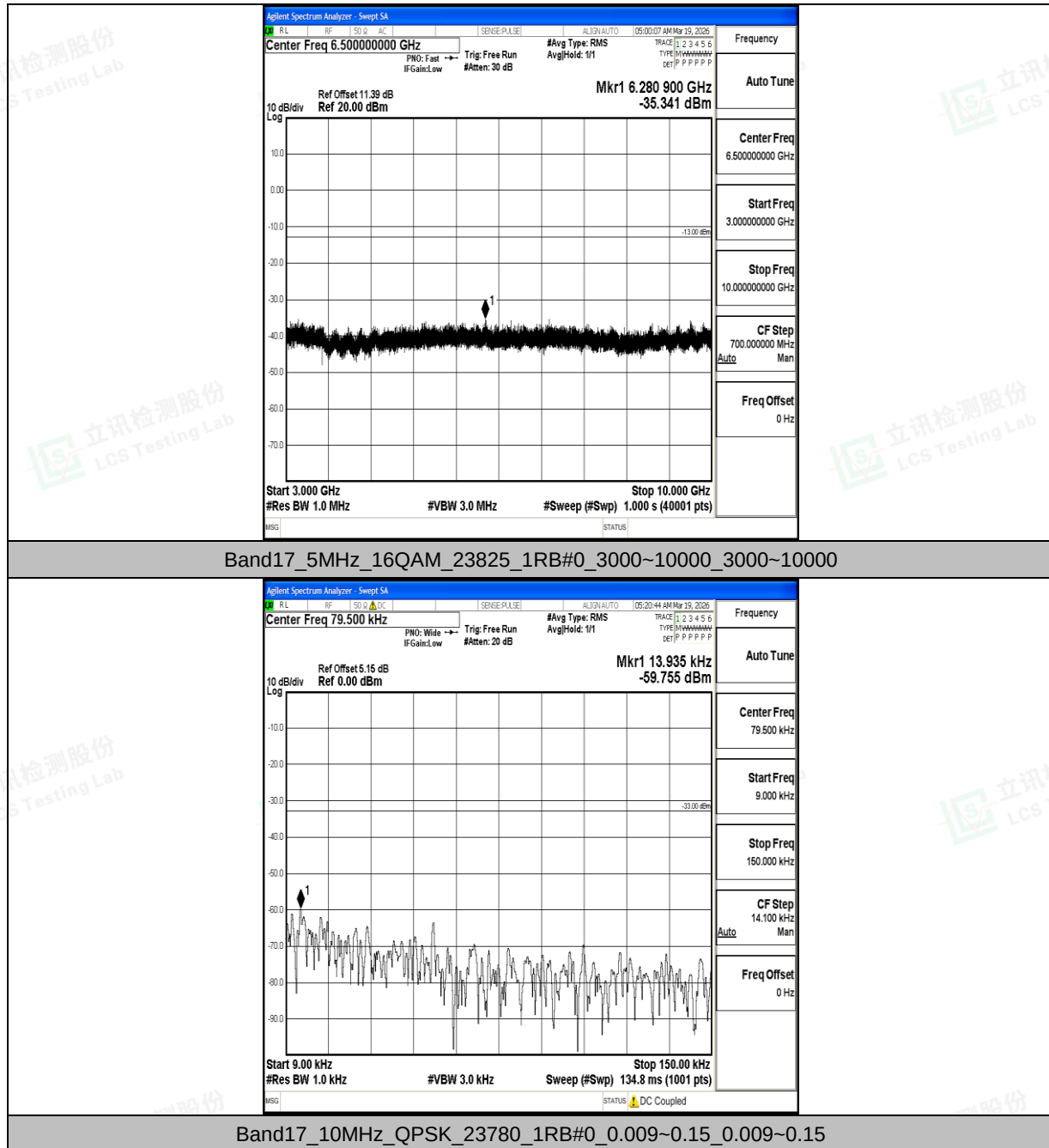


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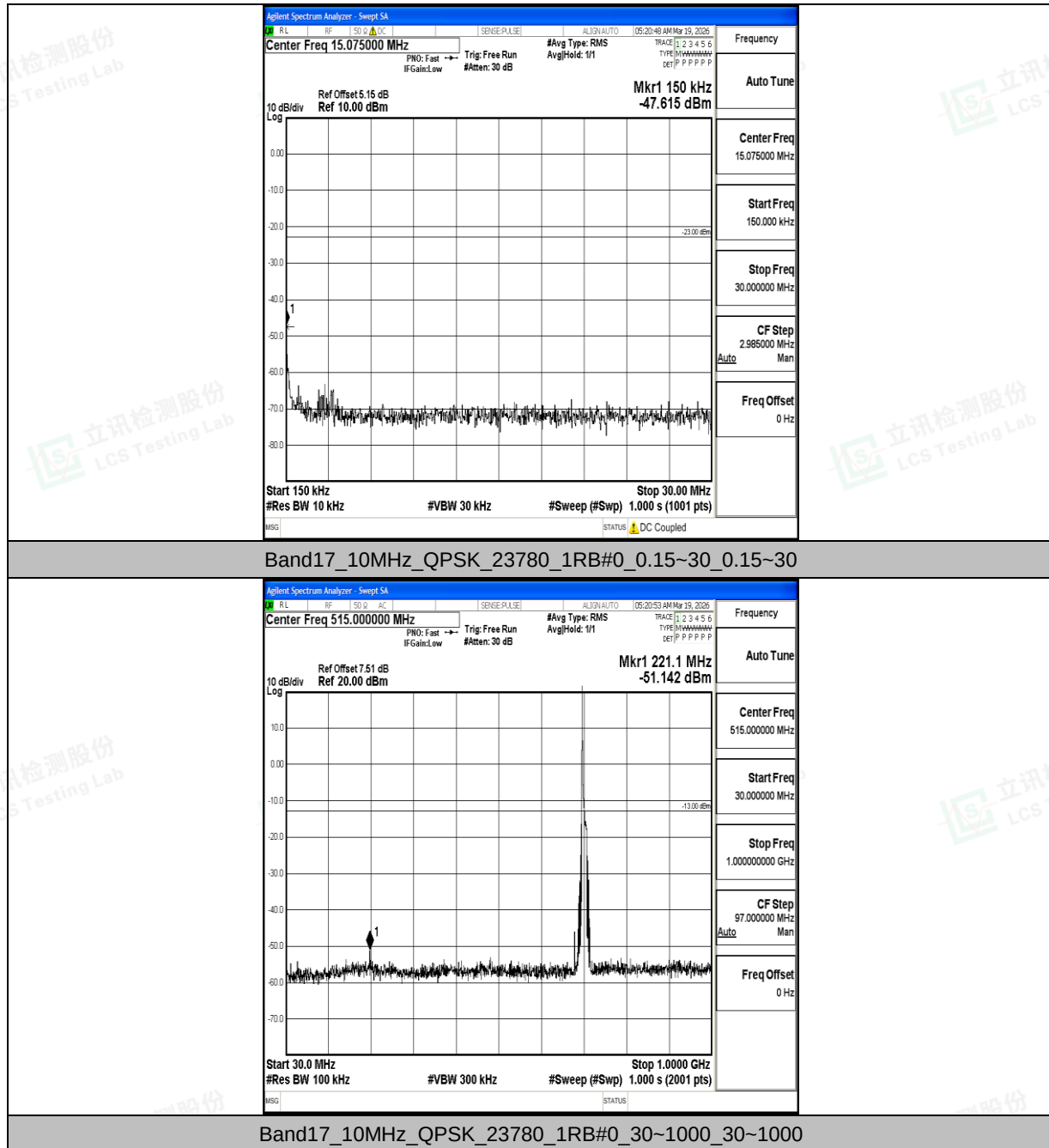


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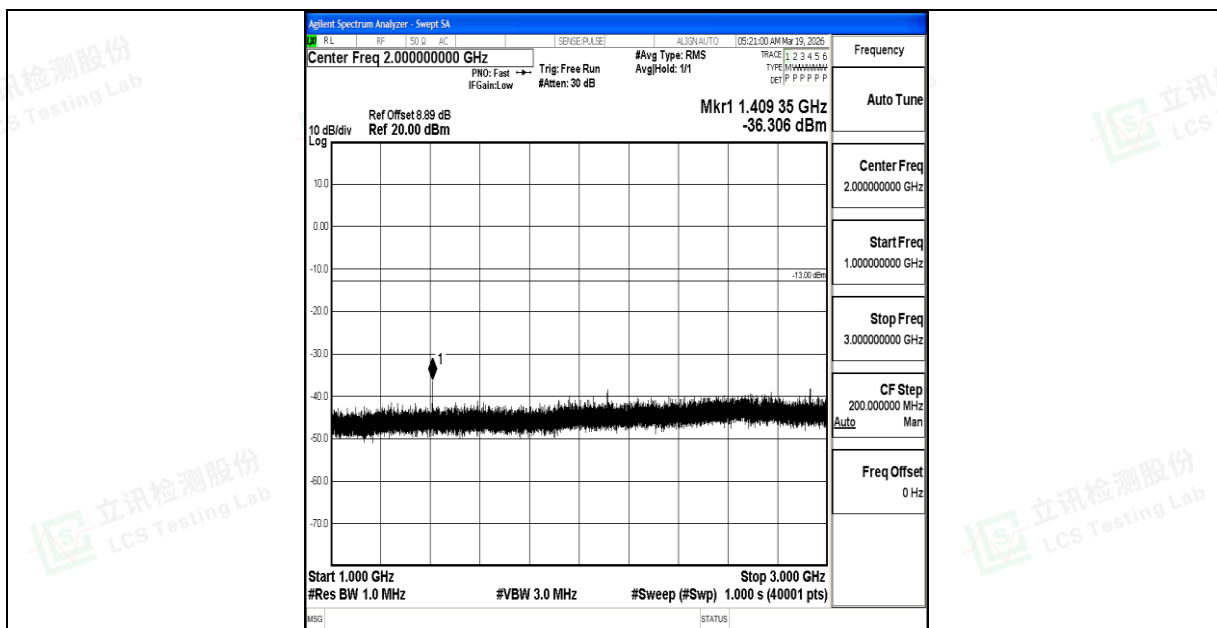


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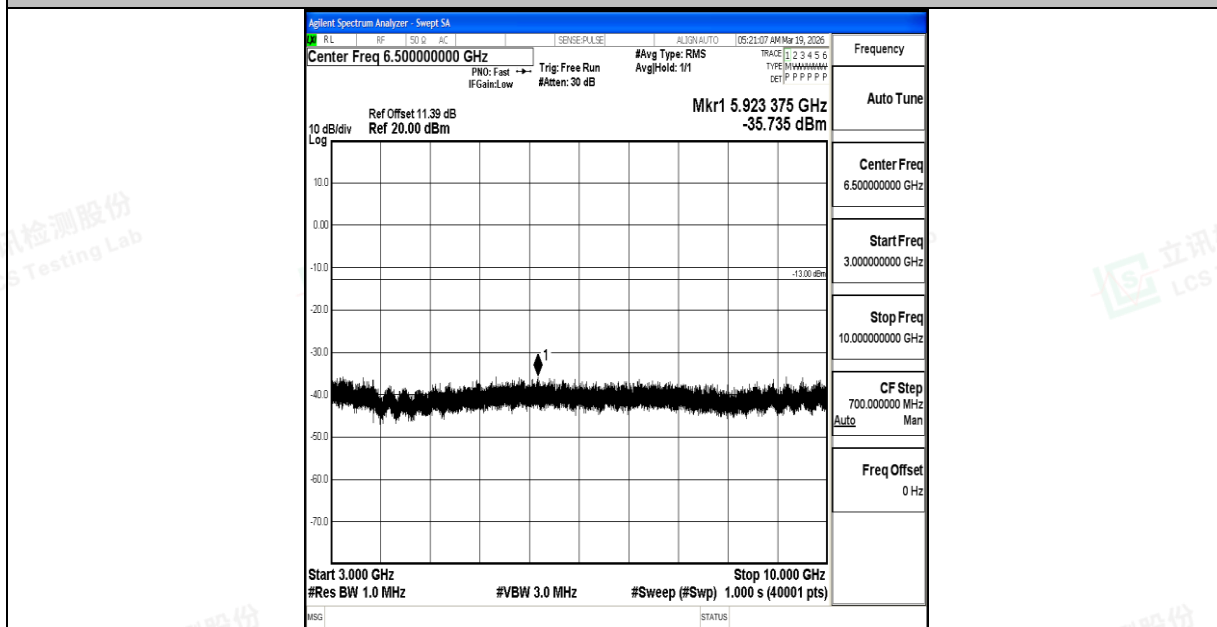
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Band17_10MHz_QPSK_23780_1RB#0_1000~3000_1000~3000



Band17_10MHz_QPSK_23780_1RB#0_3000~10000_3000~10000

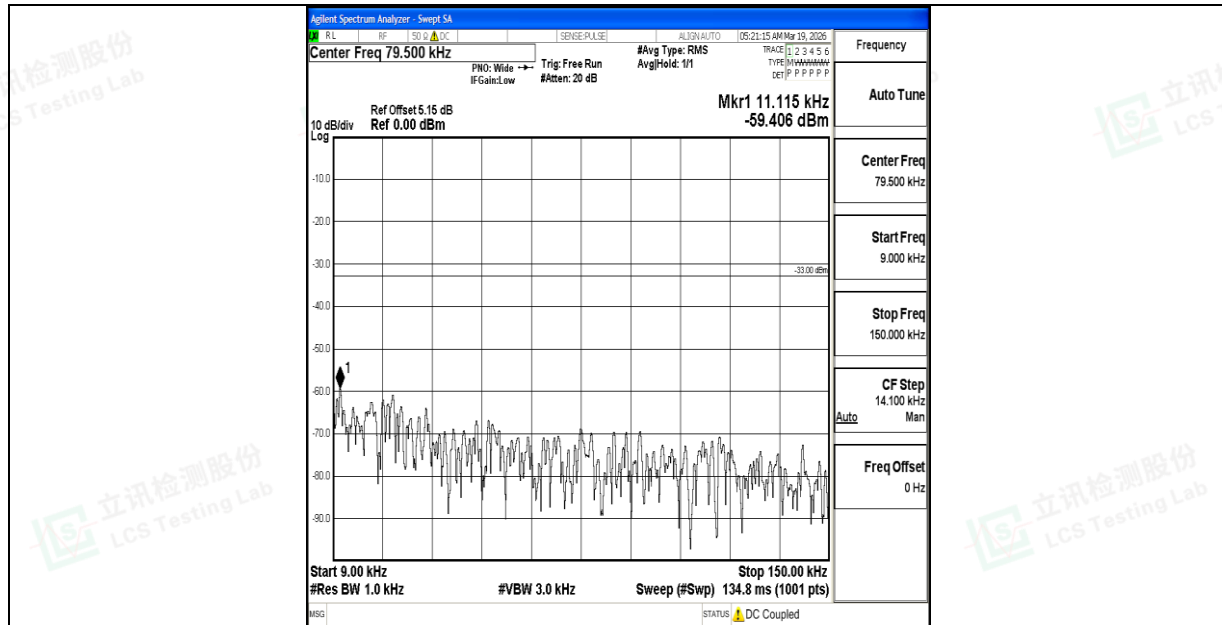


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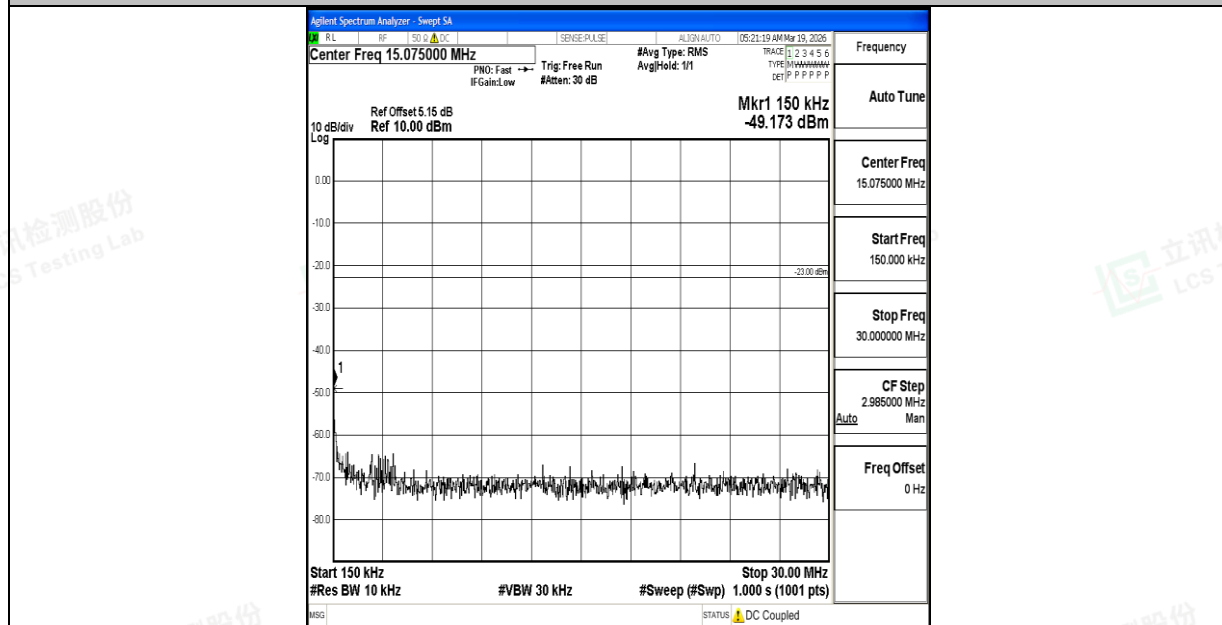
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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Band17_10MHz_16QAM_23780_1RB#0_0.009~0.15_0.009~0.15



Band17_10MHz_16QAM_23780_1RB#0_0.15~30_0.15~30

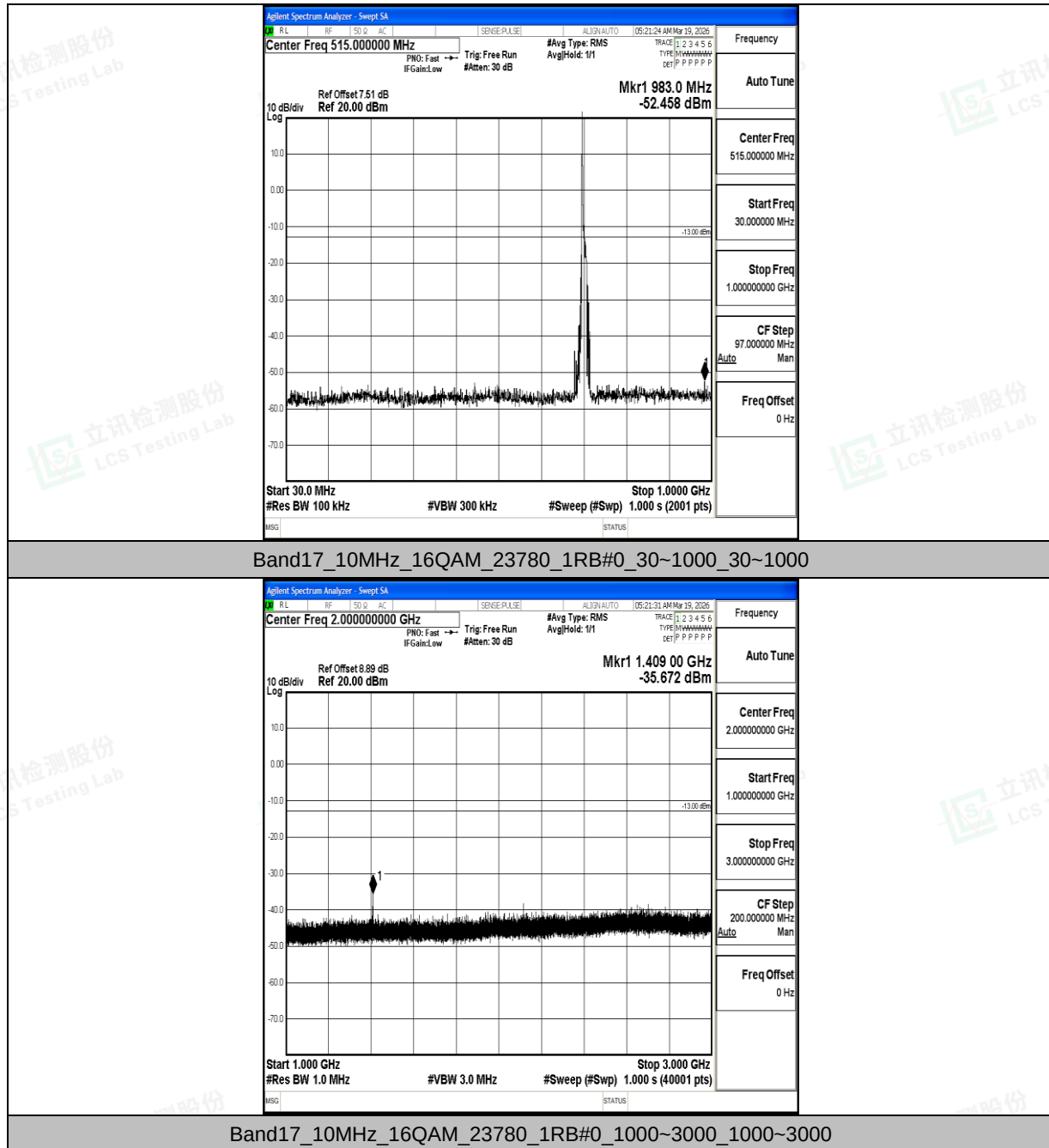


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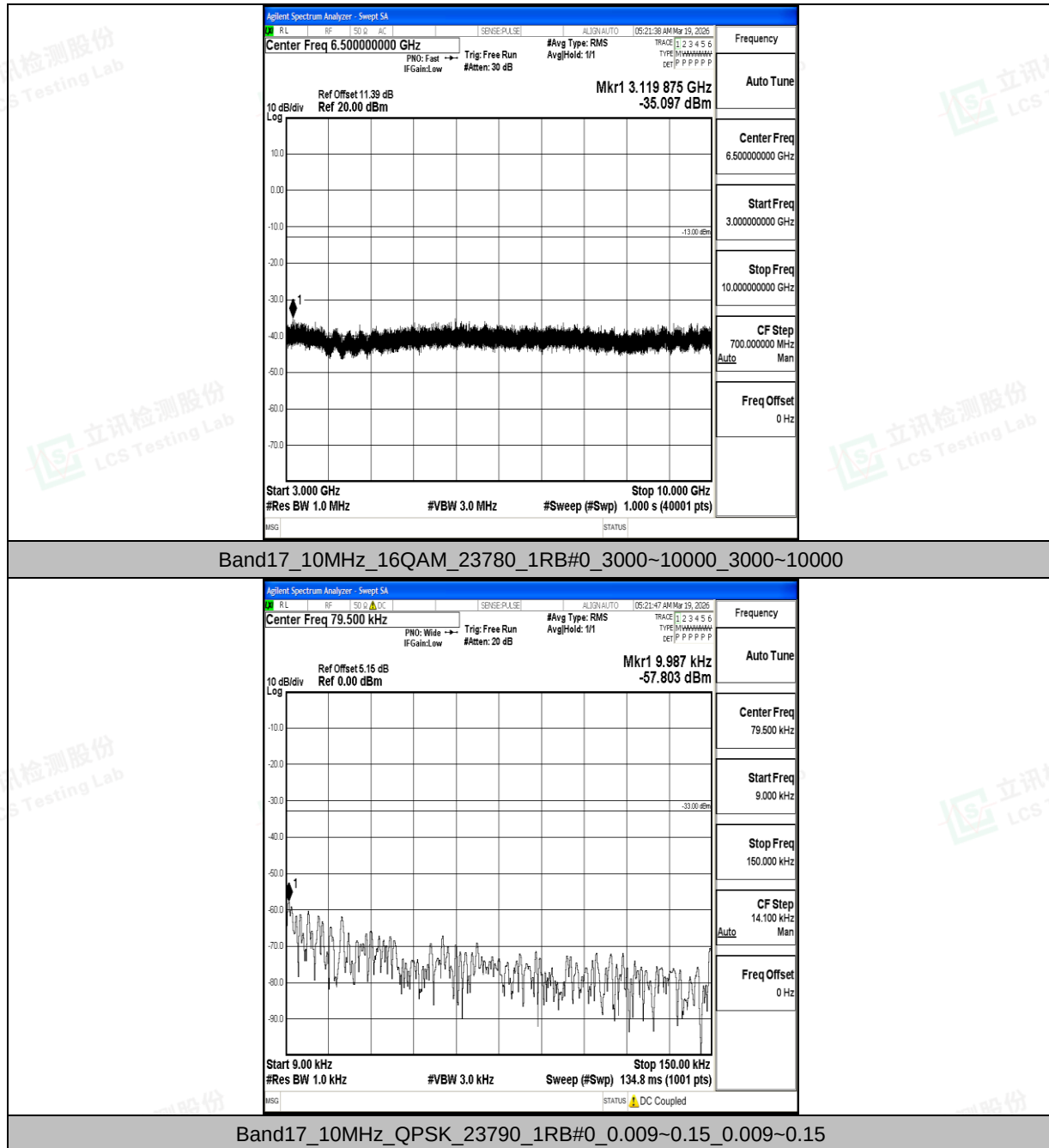


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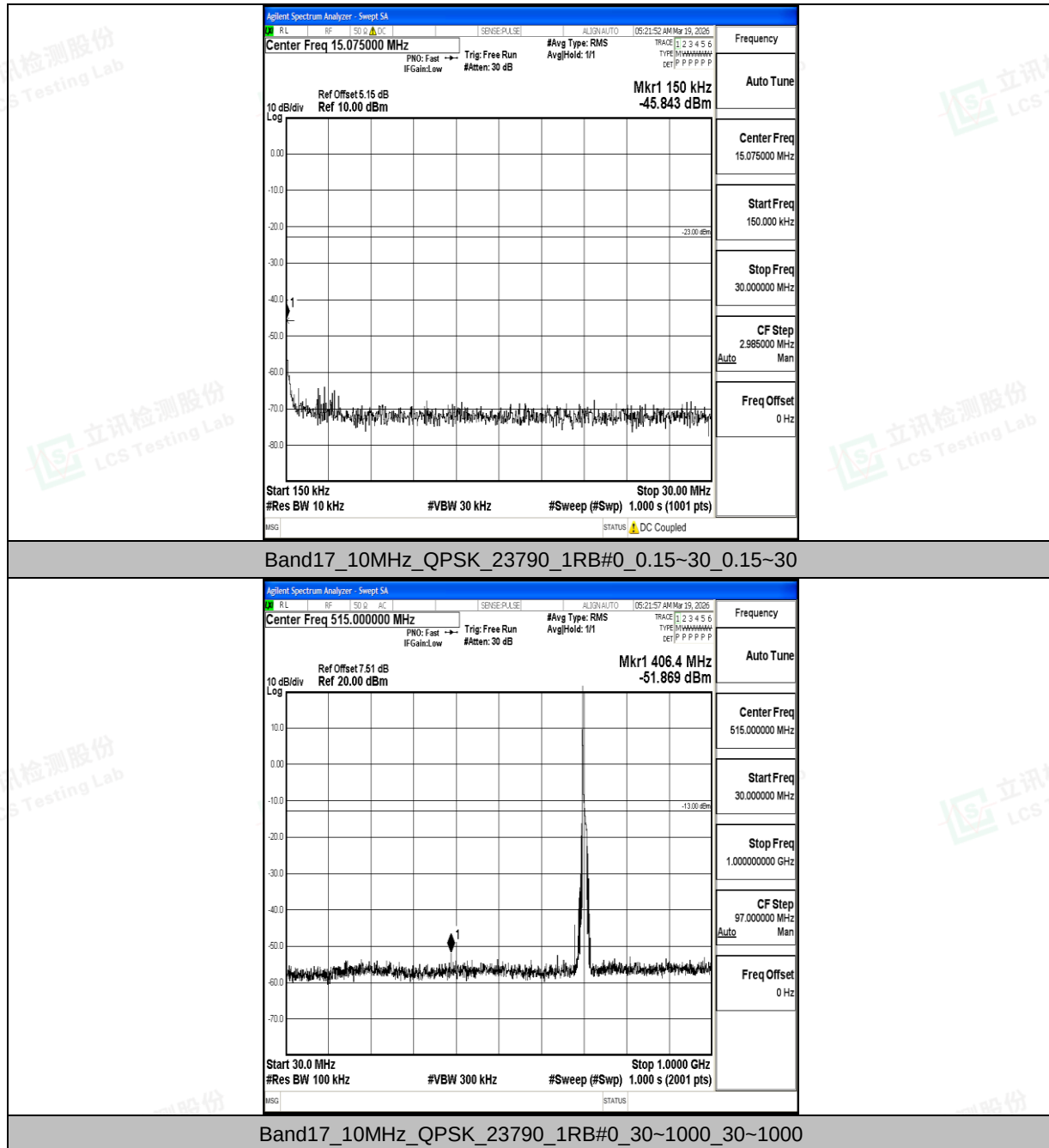


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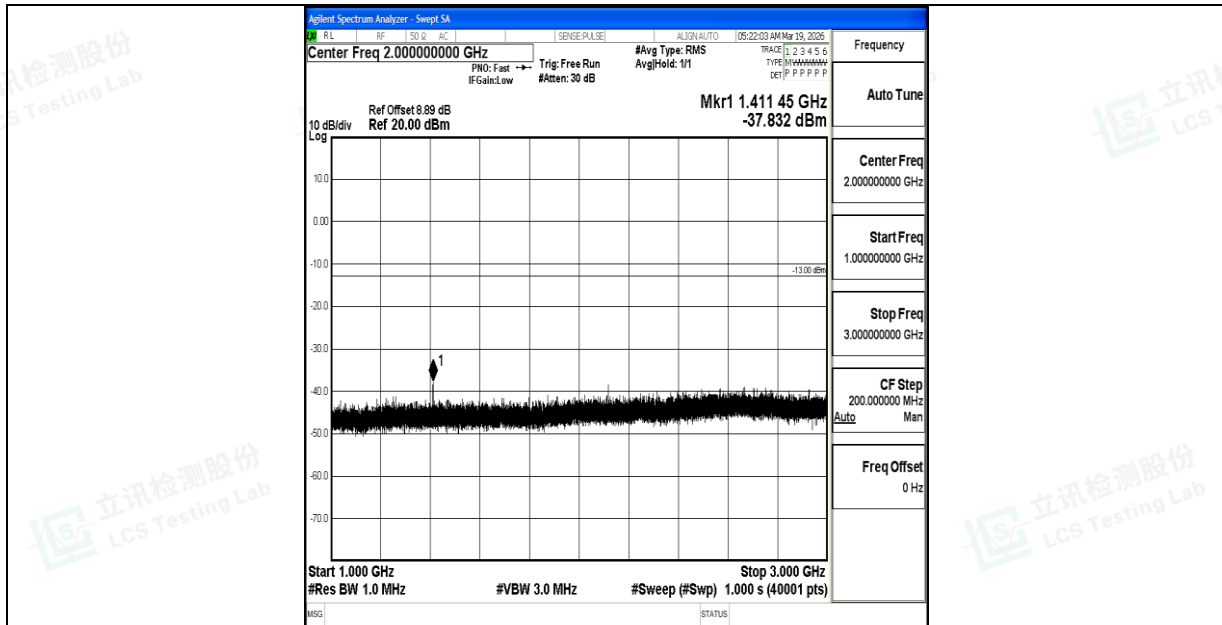


Shenzhen LCS Compliance Testing Laboratory Ltd.

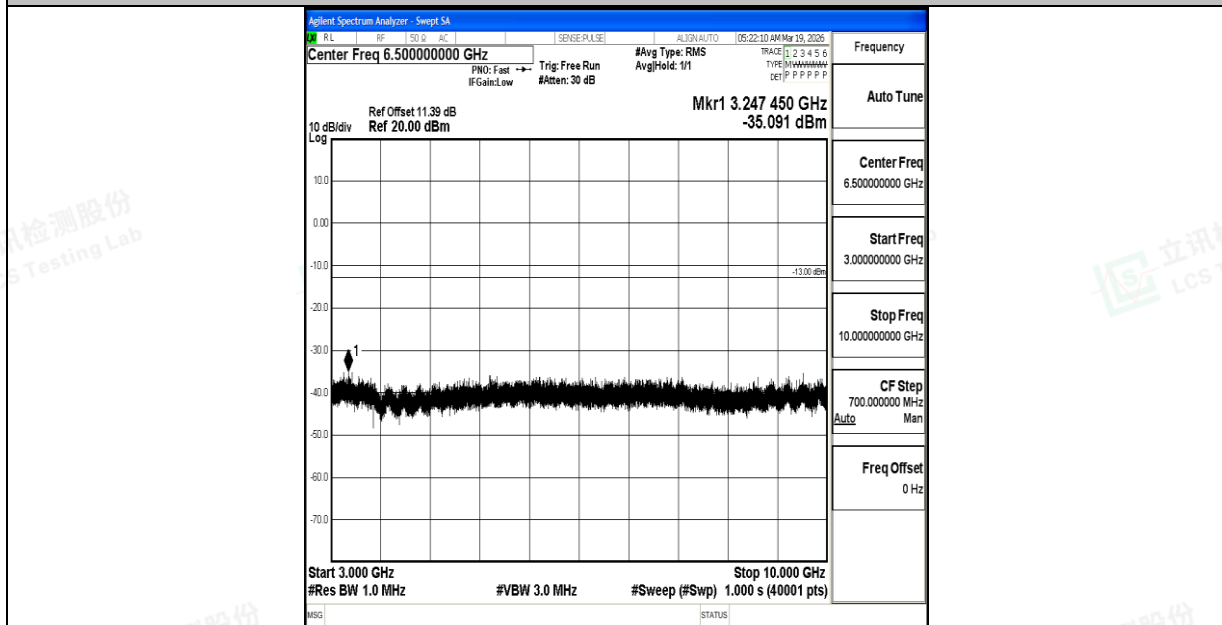
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Band17_10MHz_QPSK_23790_1RB#0_1000~3000_1000~3000



Band17_10MHz_QPSK_23790_1RB#0_3000~10000_3000~10000

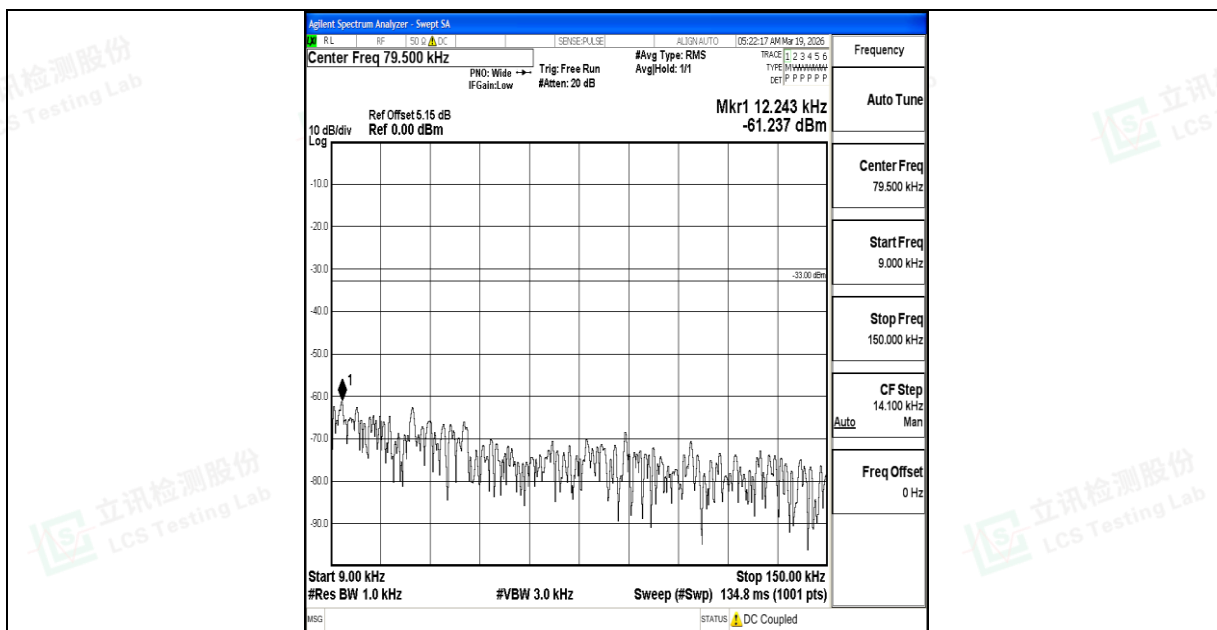


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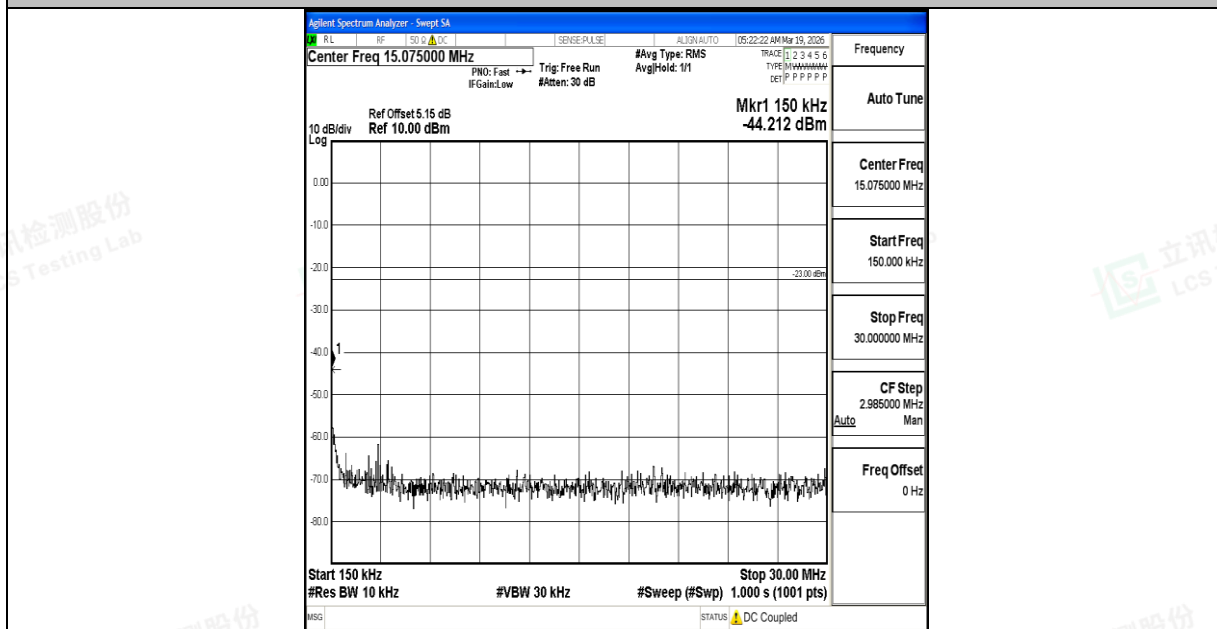
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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Band17_10MHz_16QAM_23790_1RB#0_0.009~0.15_0.009~0.15



Band17_10MHz_16QAM_23790_1RB#0_0.15~30_0.15~30

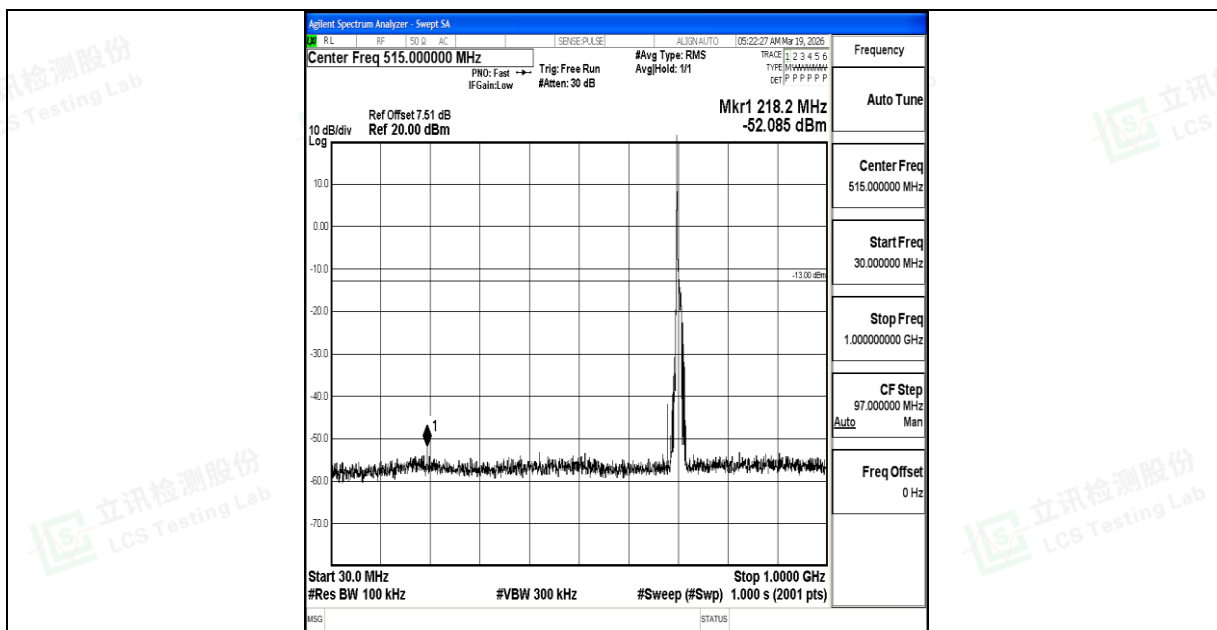


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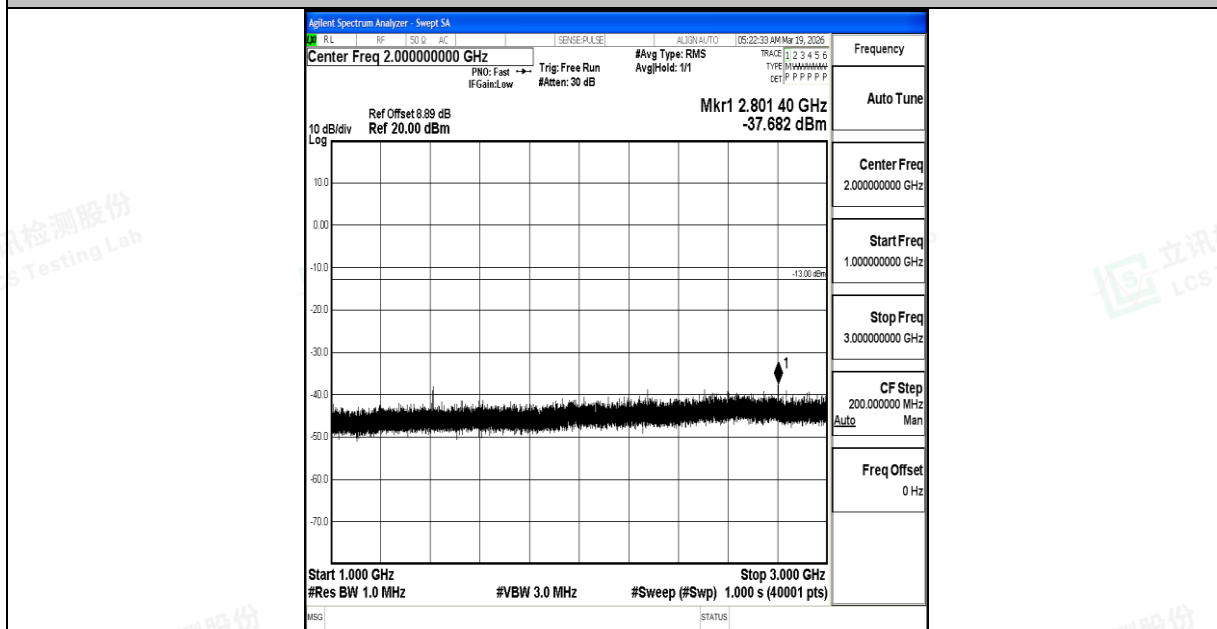
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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Band17_10MHz_16QAM_23790_1RB#0_30~1000_30~1000



Band17_10MHz_16QAM_23790_1RB#0_1000~3000_1000~3000

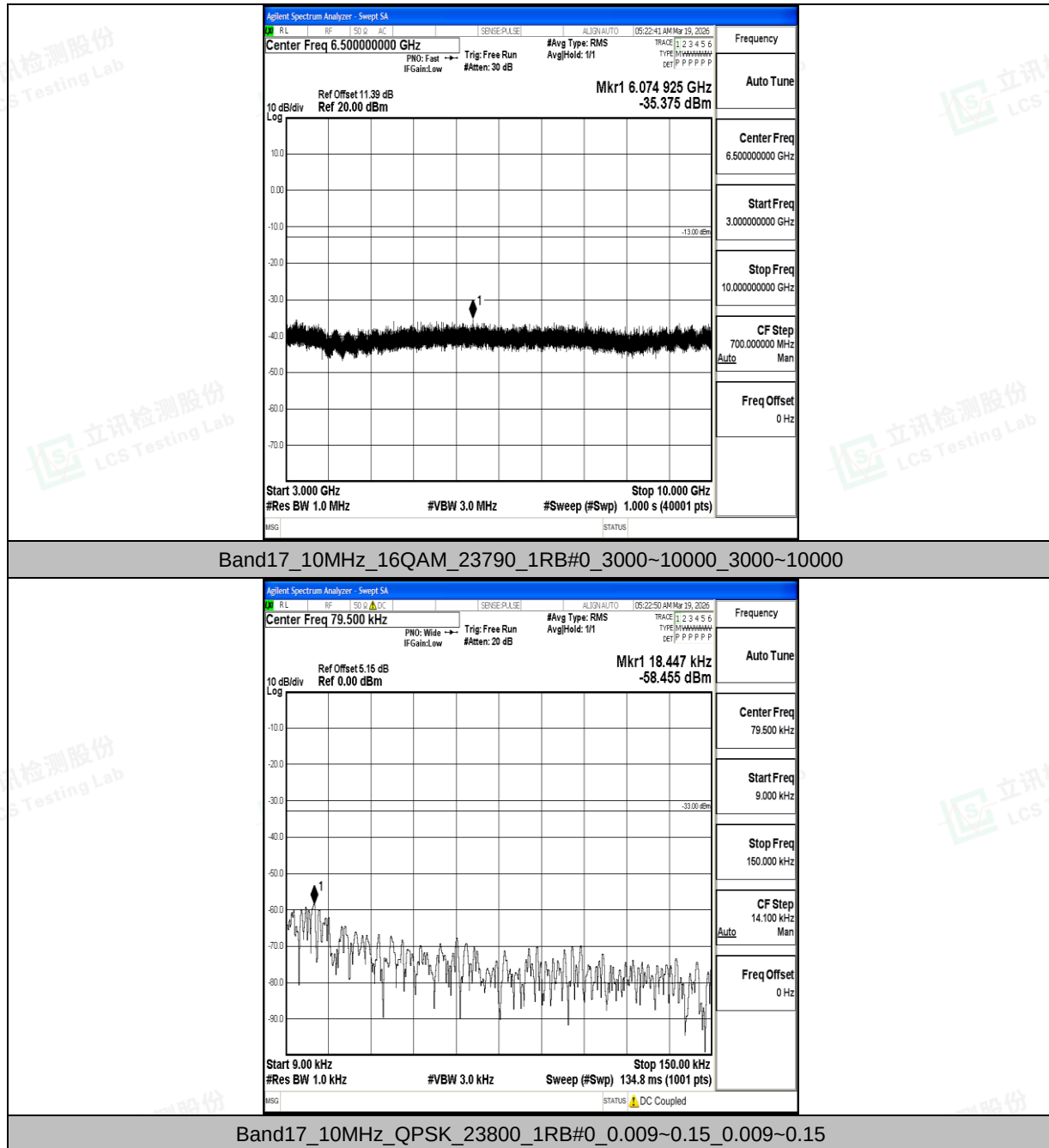


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