



Appendix K: Test Data for E-UTRA Band 17

Product Name: Smartphone

Test Model: Hyline Pro

Environmental Conditions

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



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K.1 Conducted Power Output Data

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band17	5MHz	QPSK	23755	1RB#0	20.65	PASS
Band17	5MHz	16QAM	23755	1RB#0	21.16	PASS
Band17	5MHz	QPSK	23755	1RB#12	21.43	PASS
Band17	5MHz	16QAM	23755	1RB#12	20.99	PASS
Band17	5MHz	QPSK	23755	1RB#24	21.20	PASS
Band17	5MHz	16QAM	23755	1RB#24	20.97	PASS
Band17	5MHz	QPSK	23755	12RB#0	20.75	PASS
Band17	5MHz	16QAM	23755	12RB#0	19.87	PASS
Band17	5MHz	QPSK	23755	12RB#6	20.77	PASS
Band17	5MHz	16QAM	23755	12RB#6	19.95	PASS
Band17	5MHz	QPSK	23755	12RB#13	20.63	PASS
Band17	5MHz	16QAM	23755	12RB#13	19.96	PASS
Band17	5MHz	QPSK	23755	25RB#0	20.71	PASS
Band17	5MHz	16QAM	23755	25RB#0	19.69	PASS
Band17	5MHz	QPSK	23790	1RB#0	21.63	PASS
Band17	5MHz	16QAM	23790	1RB#0	20.40	PASS
Band17	5MHz	QPSK	23790	1RB#12	21.78	PASS
Band17	5MHz	16QAM	23790	1RB#12	20.36	PASS
Band17	5MHz	QPSK	23790	1RB#24	21.69	PASS
Band17	5MHz	16QAM	23790	1RB#24	20.29	PASS
Band17	5MHz	QPSK	23790	12RB#0	20.66	PASS
Band17	5MHz	16QAM	23790	12RB#0	19.73	PASS
Band17	5MHz	QPSK	23790	12RB#6	20.67	PASS
Band17	5MHz	16QAM	23790	12RB#6	19.73	PASS
Band17	5MHz	QPSK	23790	12RB#13	20.59	PASS
Band17	5MHz	16QAM	23790	12RB#13	19.83	PASS
Band17	5MHz	QPSK	23790	25RB#0	20.61	PASS
Band17	5MHz	16QAM	23790	25RB#0	19.84	PASS
Band17	5MHz	QPSK	23825	1RB#0	21.47	PASS
Band17	5MHz	16QAM	23825	1RB#0	20.01	PASS
Band17	5MHz	QPSK	23825	1RB#12	21.39	PASS
Band17	5MHz	16QAM	23825	1RB#12	19.99	PASS
Band17	5MHz	QPSK	23825	1RB#24	21.39	PASS
Band17	5MHz	16QAM	23825	1RB#24	19.91	PASS
Band17	5MHz	QPSK	23825	12RB#0	20.55	PASS
Band17	5MHz	16QAM	23825	12RB#0	19.70	PASS



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Band17	5MHz	QPSK	23825	12RB#6	20.54	PASS
Band17	5MHz	16QAM	23825	12RB#6	19.70	PASS
Band17	5MHz	QPSK	23825	12RB#13	20.63	PASS
Band17	5MHz	16QAM	23825	12RB#13	19.77	PASS
Band17	5MHz	QPSK	23825	25RB#0	20.50	PASS
Band17	5MHz	16QAM	23825	25RB#0	19.90	PASS
Band17	10MHz	QPSK	23780	1RB#0	21.90	PASS
Band17	10MHz	16QAM	23780	1RB#0	21.08	PASS
Band17	10MHz	QPSK	23780	1RB#24	21.82	PASS
Band17	10MHz	16QAM	23780	1RB#24	20.89	PASS
Band17	10MHz	QPSK	23780	1RB#49	21.77	PASS
Band17	10MHz	16QAM	23780	1RB#49	21.21	PASS
Band17	10MHz	QPSK	23780	25RB#0	21.03	PASS
Band17	10MHz	16QAM	23780	25RB#0	20.13	PASS
Band17	10MHz	QPSK	23780	25RB#12	20.97	PASS
Band17	10MHz	16QAM	23780	25RB#12	20.13	PASS
Band17	10MHz	QPSK	23780	25RB#25	20.98	PASS
Band17	10MHz	16QAM	23780	25RB#25	20.25	PASS
Band17	10MHz	QPSK	23780	50RB#0	21.05	PASS
Band17	10MHz	16QAM	23780	50RB#0	20.28	PASS
Band17	10MHz	QPSK	23790	1RB#0	22.20	PASS
Band17	10MHz	16QAM	23790	1RB#0	21.10	PASS
Band17	10MHz	QPSK	23790	1RB#24	21.93	PASS
Band17	10MHz	16QAM	23790	1RB#24	21.01	PASS
Band17	10MHz	QPSK	23790	1RB#49	21.88	PASS
Band17	10MHz	16QAM	23790	1RB#49	21.03	PASS
Band17	10MHz	QPSK	23790	25RB#0	21.05	PASS
Band17	10MHz	16QAM	23790	25RB#0	20.34	PASS
Band17	10MHz	QPSK	23790	25RB#12	21.11	PASS
Band17	10MHz	16QAM	23790	25RB#12	20.29	PASS
Band17	10MHz	QPSK	23790	25RB#25	21.07	PASS
Band17	10MHz	16QAM	23790	25RB#25	20.26	PASS
Band17	10MHz	QPSK	23790	50RB#0	21.04	PASS
Band17	10MHz	16QAM	23790	50RB#0	20.25	PASS
Band17	10MHz	QPSK	23800	1RB#0	21.82	PASS
Band17	10MHz	16QAM	23800	1RB#0	21.96	PASS
Band17	10MHz	QPSK	23800	1RB#24	21.75	PASS
Band17	10MHz	16QAM	23800	1RB#24	21.90	PASS
Band17	10MHz	QPSK	23800	1RB#49	21.67	PASS
Band17	10MHz	16QAM	23800	1RB#49	21.77	PASS



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Band17	10MHz	QPSK	23800	25RB#0	21.04	PASS
Band17	10MHz	16QAM	23800	25RB#0	20.25	PASS
Band17	10MHz	QPSK	23800	25RB#12	20.94	PASS
Band17	10MHz	16QAM	23800	25RB#12	20.25	PASS
Band17	10MHz	QPSK	23800	25RB#25	21.07	PASS
Band17	10MHz	16QAM	23800	25RB#25	20.27	PASS
Band17	10MHz	QPSK	23800	50RB#0	20.95	PASS
Band17	10MHz	16QAM	23800	50RB#0	20.24	PASS





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

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band17	5MHz	QPSK	23755	25RB#0	5.34	13	PASS
Band17	5MHz	16QAM	23755	25RB#0	6.07	13	PASS
Band17	5MHz	QPSK	23790	25RB#0	5.44	13	PASS
Band17	5MHz	16QAM	23790	25RB#0	5.96	13	PASS
Band17	5MHz	QPSK	23825	25RB#0	5.01	13	PASS
Band17	5MHz	16QAM	23825	25RB#0	5.83	13	PASS
Band17	10MHz	QPSK	23780	50RB#0	5.35	13	PASS
Band17	10MHz	16QAM	23780	50RB#0	5.97	13	PASS
Band17	10MHz	QPSK	23790	50RB#0	5.26	13	PASS
Band17	10MHz	16QAM	23790	50RB#0	5.95	13	PASS
Band17	10MHz	QPSK	23800	50RB#0	5.25	13	PASS
Band17	10MHz	16QAM	23800	50RB#0	5.96	13	PASS



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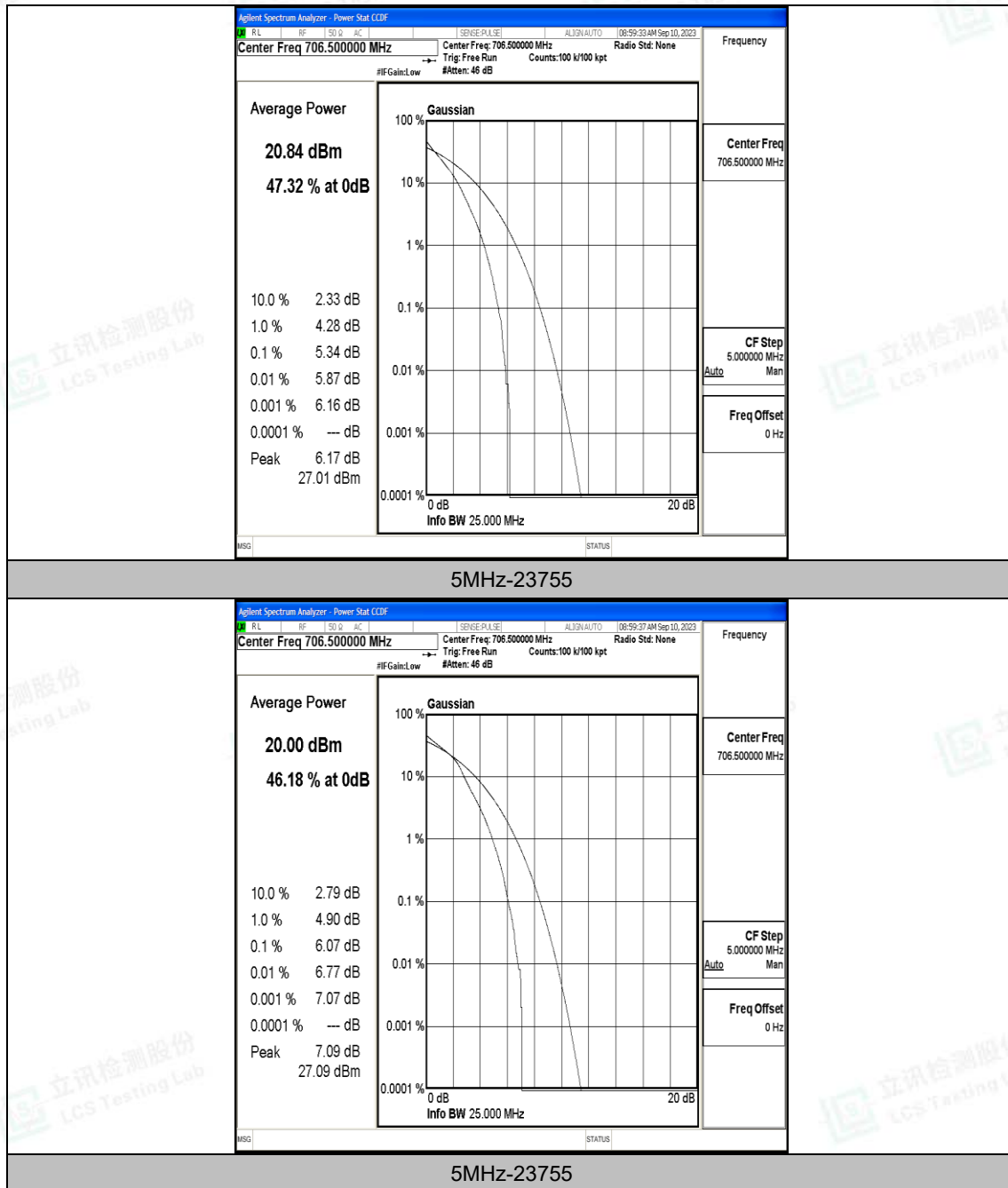
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Test Graphs

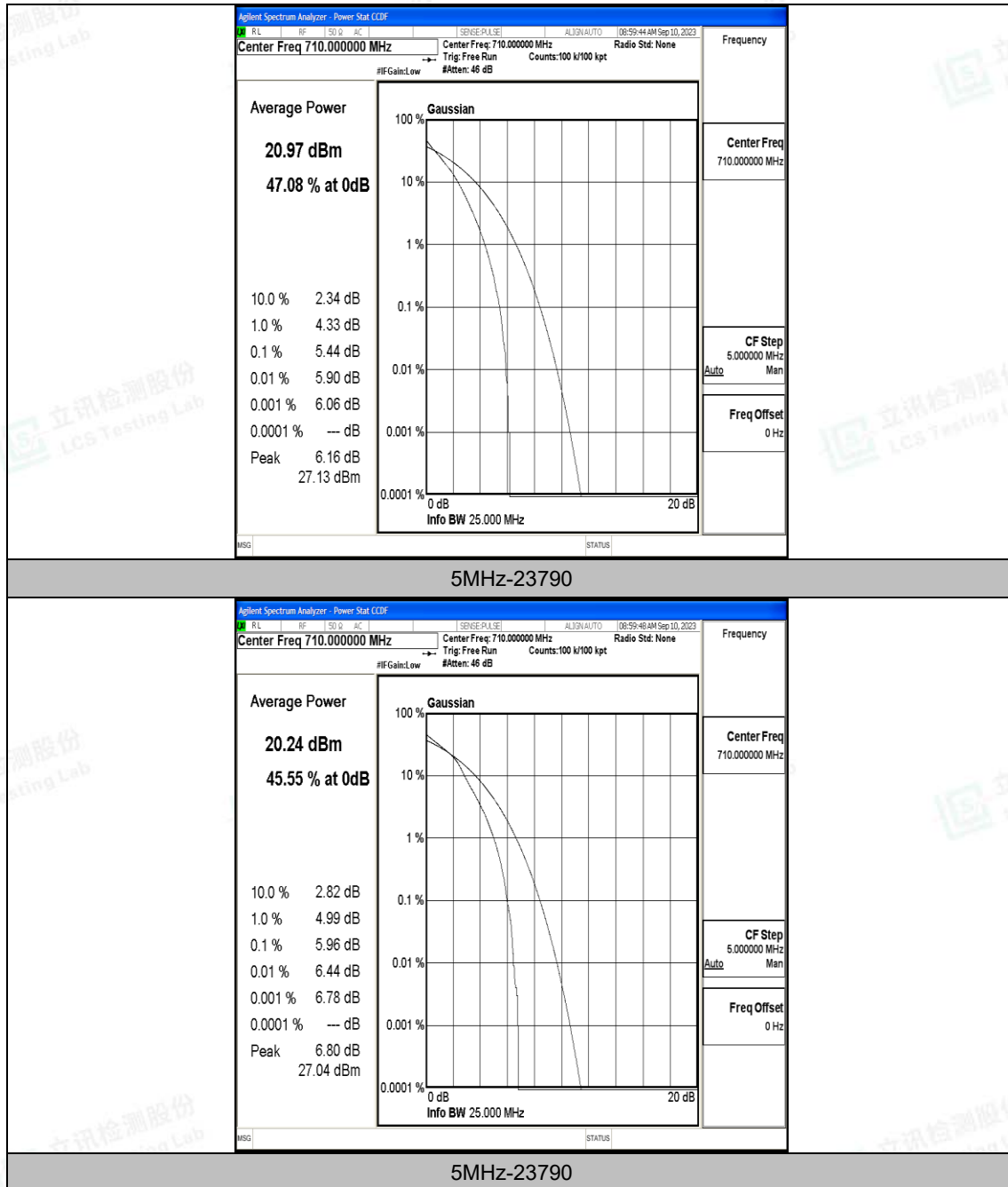


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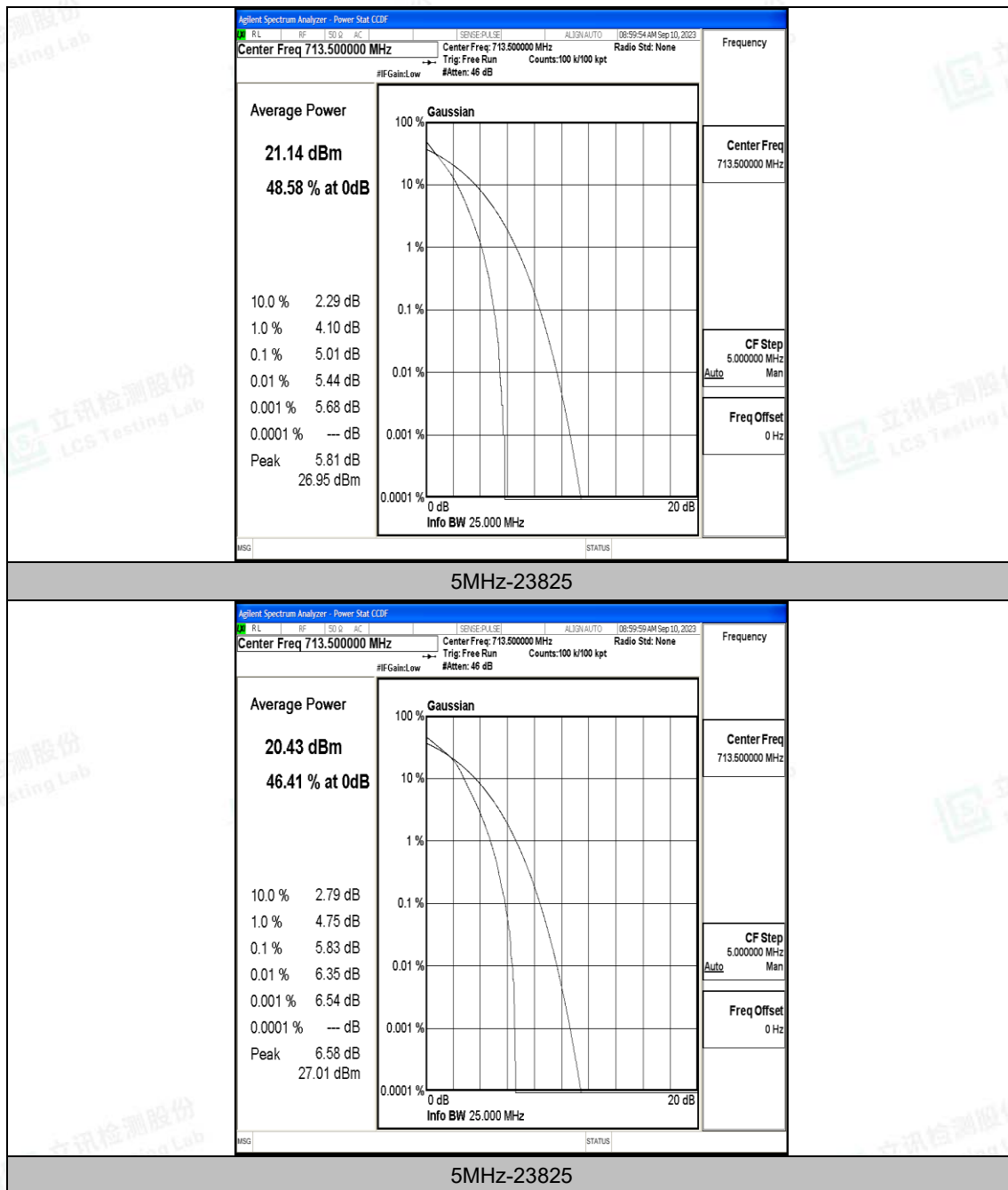


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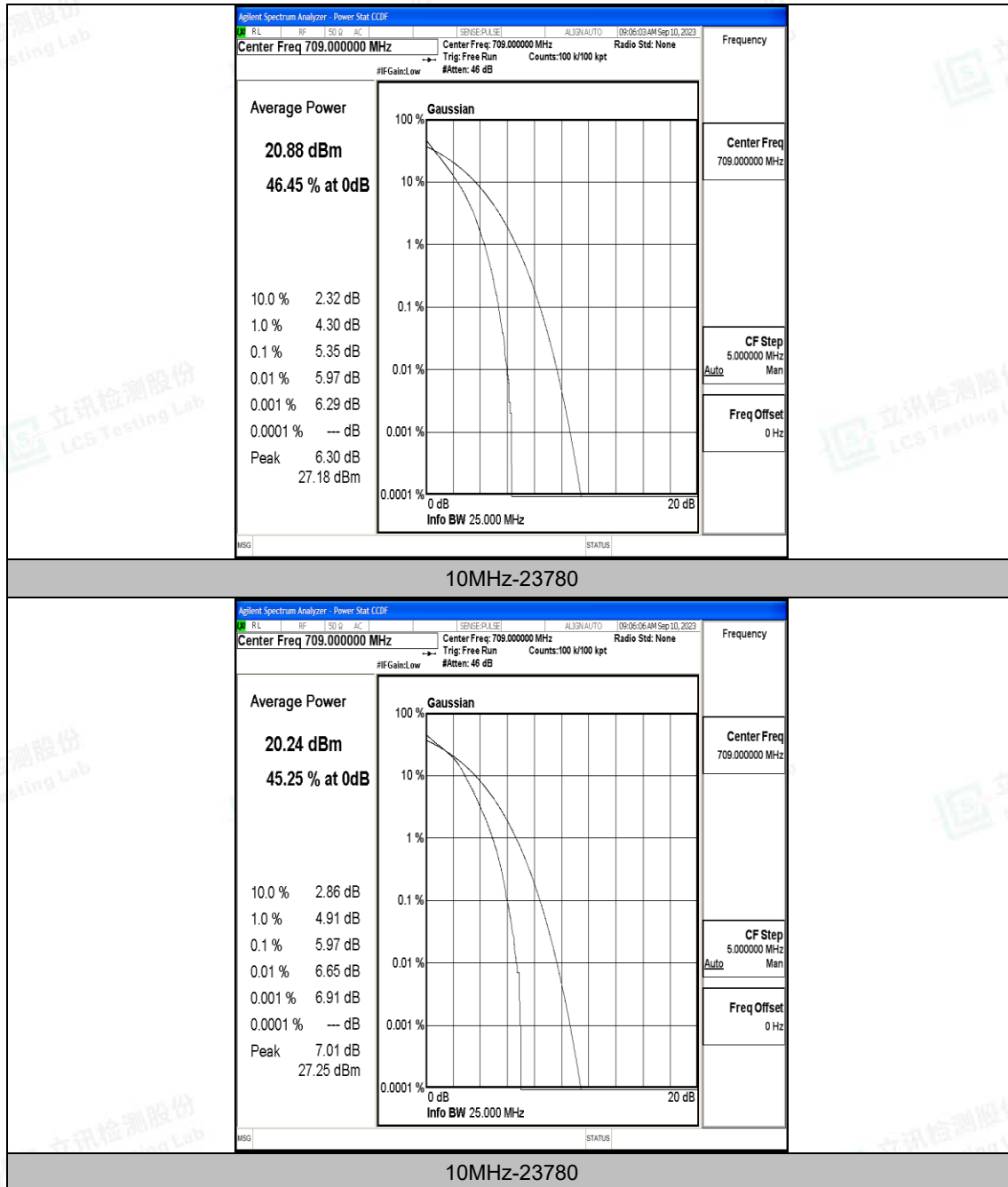


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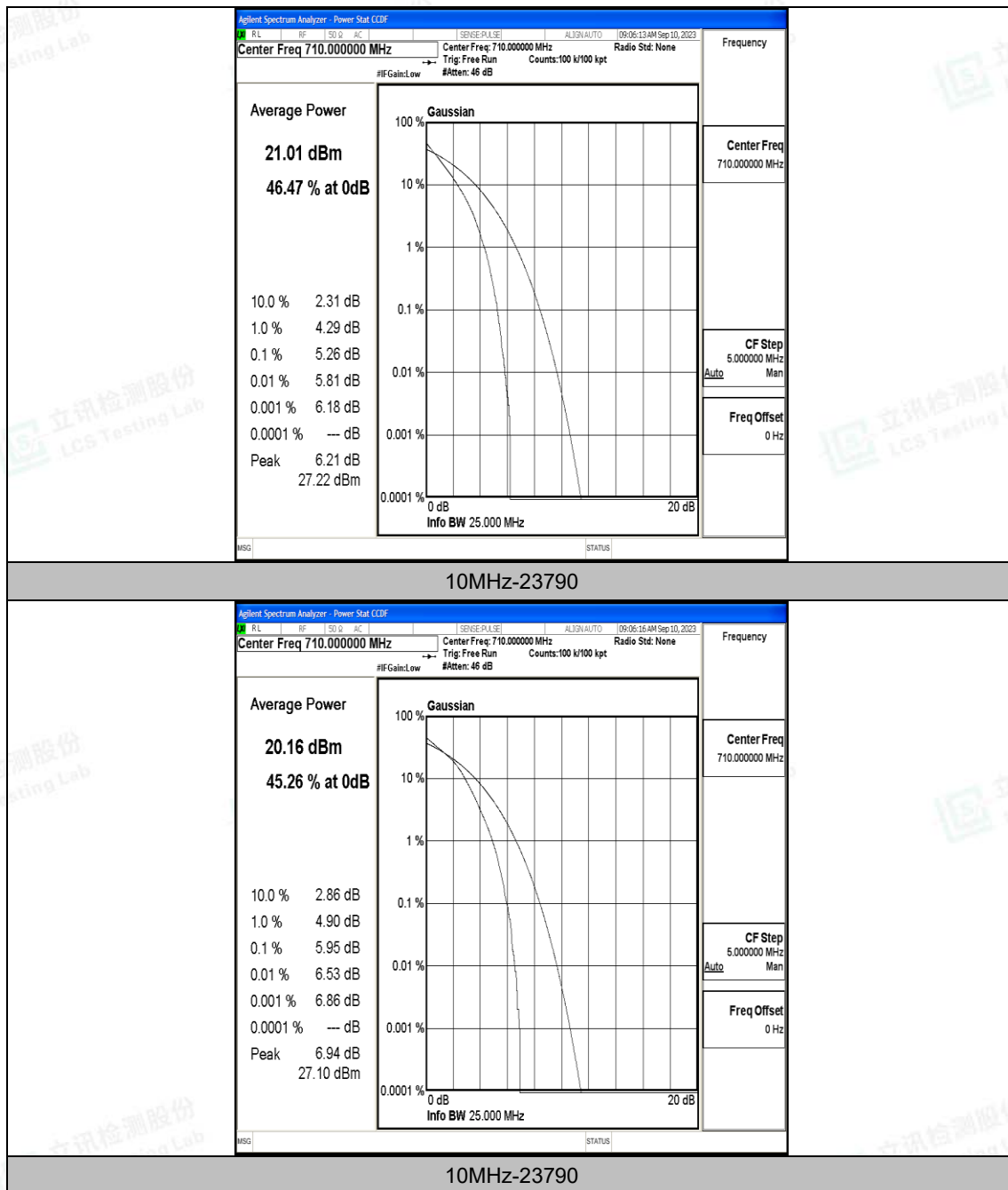


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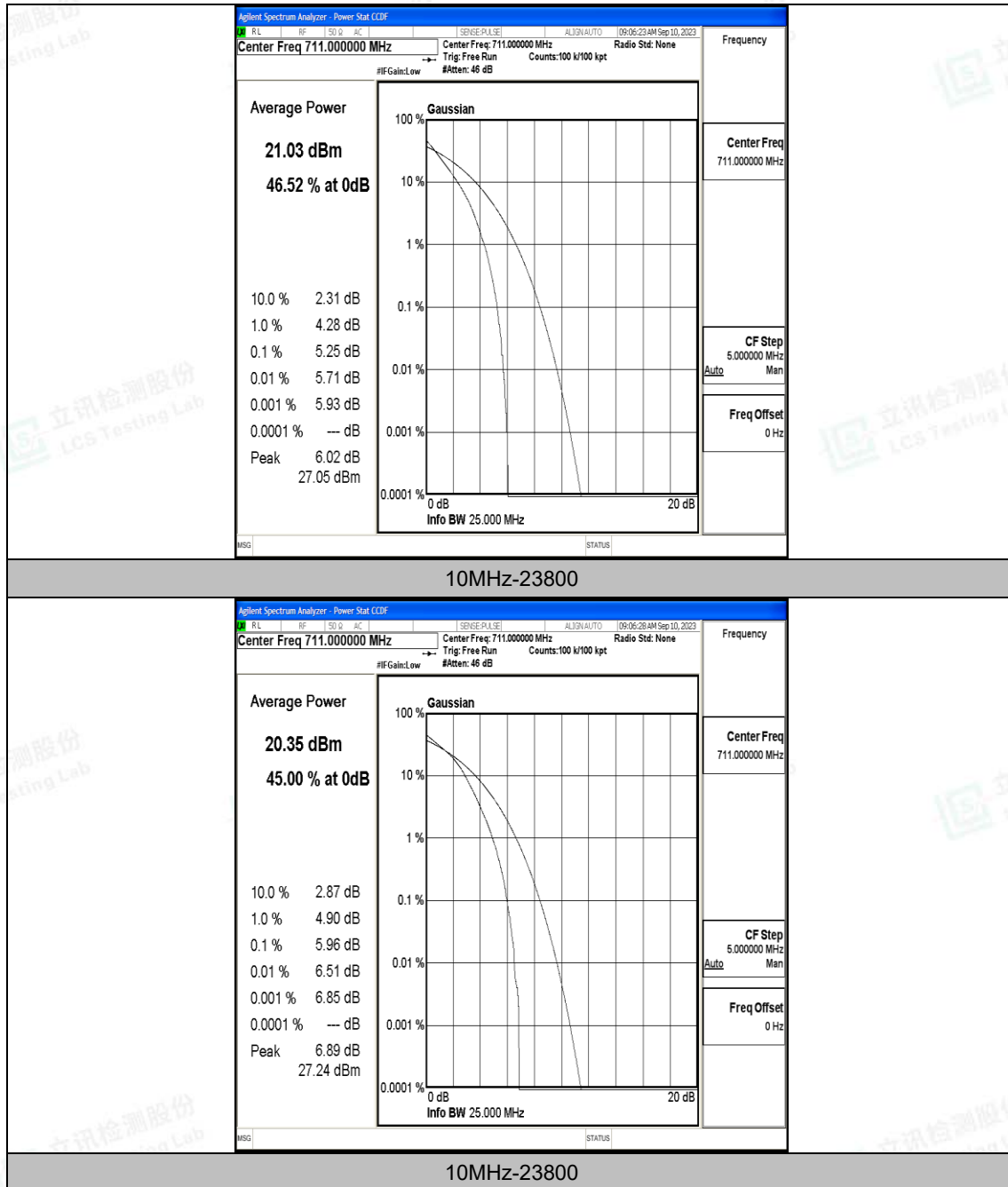


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K.3 26dB Bandwidth and Occupied Bandwidth

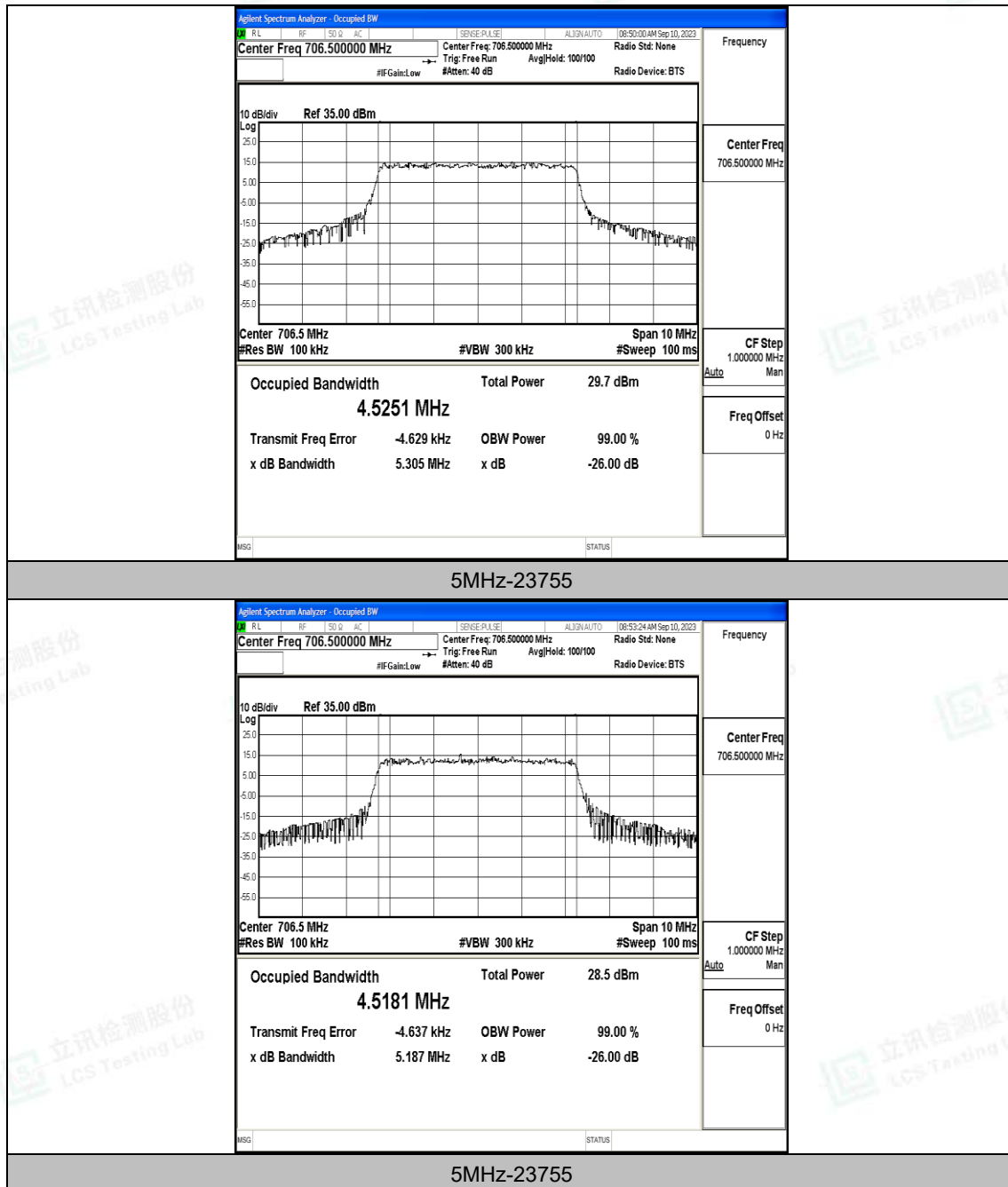
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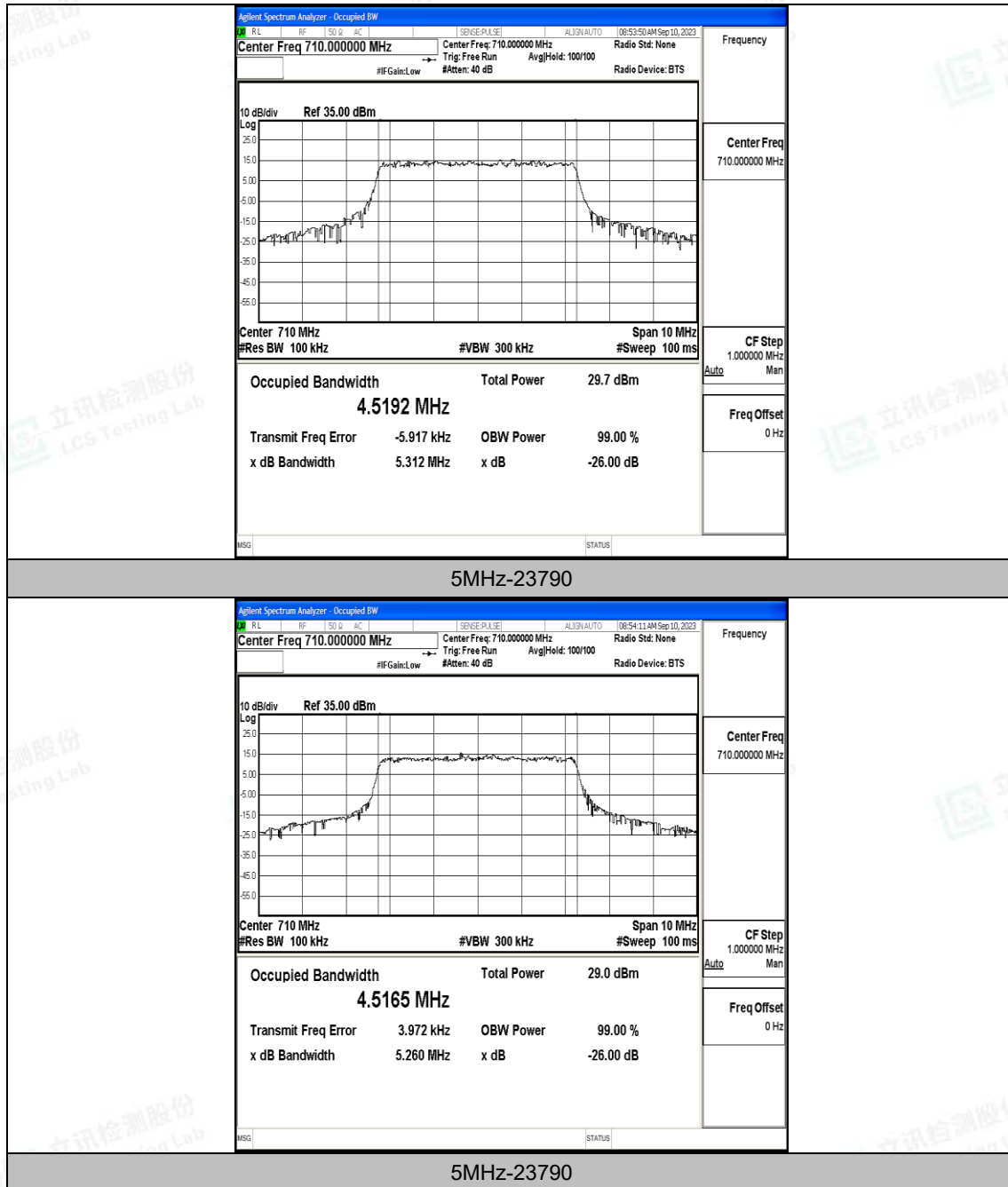
Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band17	5MHz	QPSK	23755	25RB#0	4.5251	5.305	PASS
Band17	5MHz	16QAM	23755	25RB#0	4.5181	5.187	PASS
Band17	5MHz	QPSK	23790	25RB#0	4.5192	5.312	PASS
Band17	5MHz	16QAM	23790	25RB#0	4.5165	5.260	PASS
Band17	5MHz	QPSK	23825	25RB#0	4.5110	5.434	PASS
Band17	5MHz	16QAM	23825	25RB#0	4.5435	5.389	PASS
Band17	10MHz	QPSK	23780	50RB#0	9.0005	10.09	PASS
Band17	10MHz	16QAM	23780	50RB#0	8.9877	10.16	PASS
Band17	10MHz	QPSK	23790	50RB#0	9.0023	10.24	PASS
Band17	10MHz	16QAM	23790	50RB#0	9.0100	10.07	PASS
Band17	10MHz	QPSK	23800	50RB#0	8.9708	9.940	PASS
Band17	10MHz	16QAM	23800	50RB#0	9.0261	10.21	PASS





Test Graphs



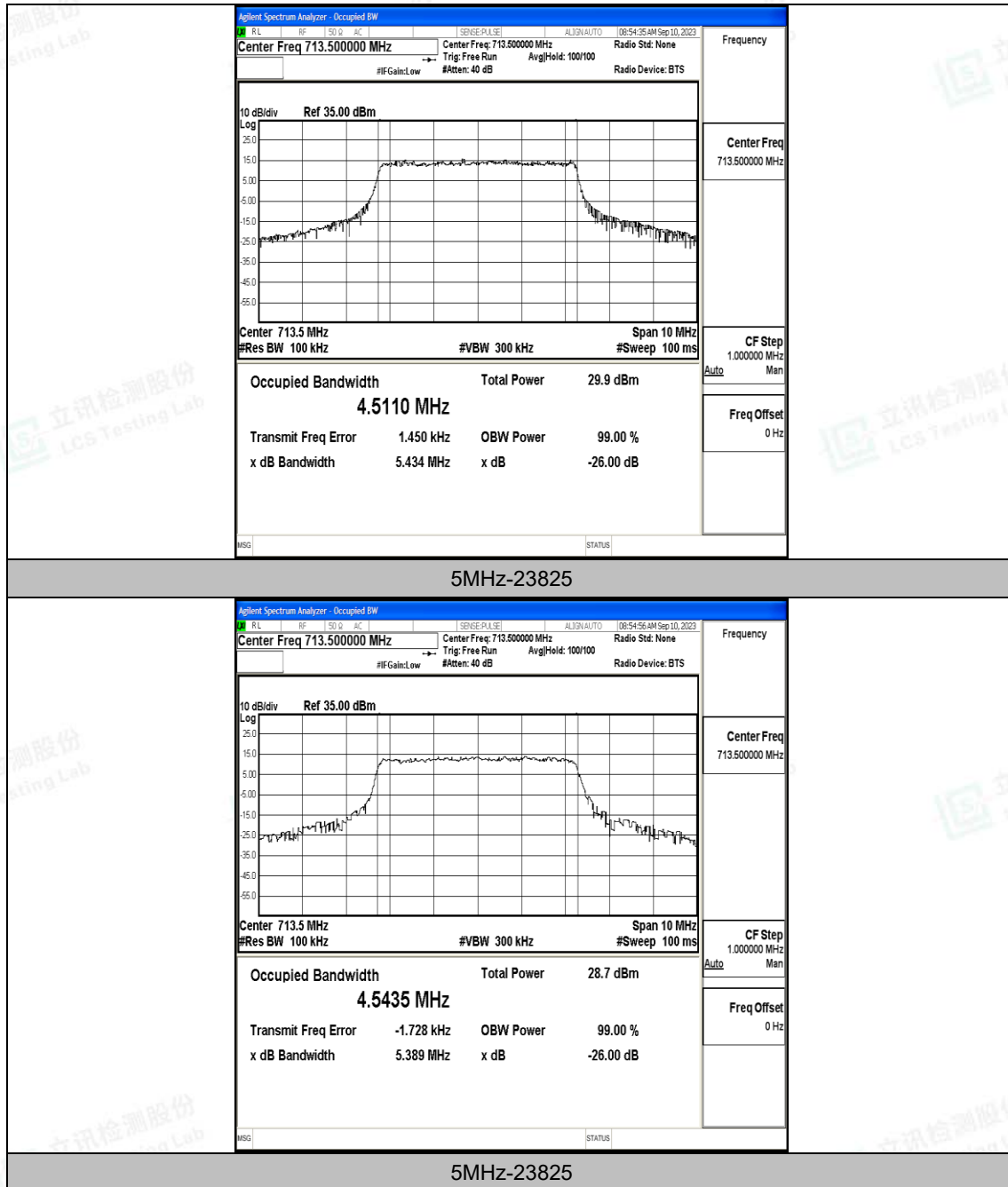


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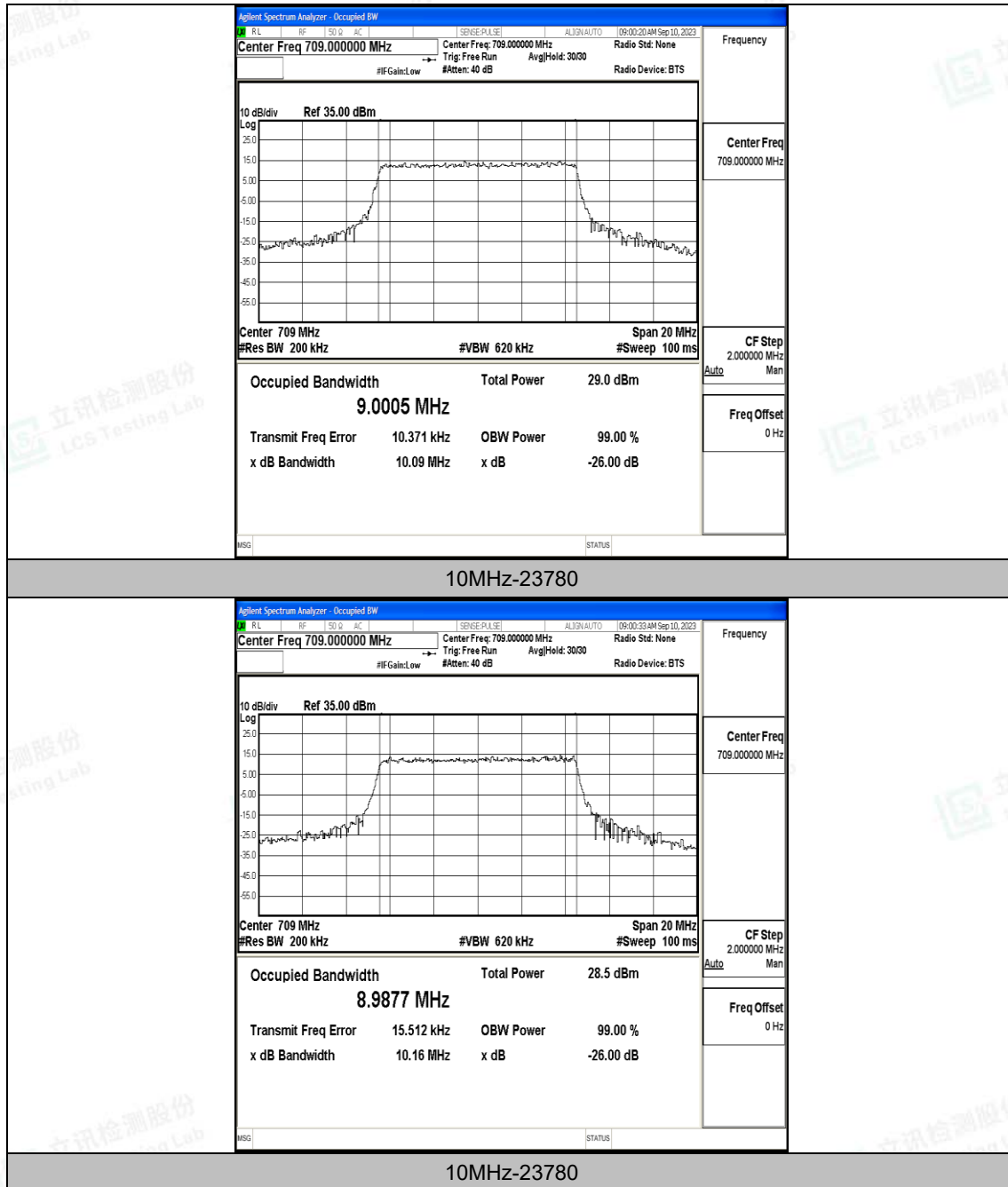


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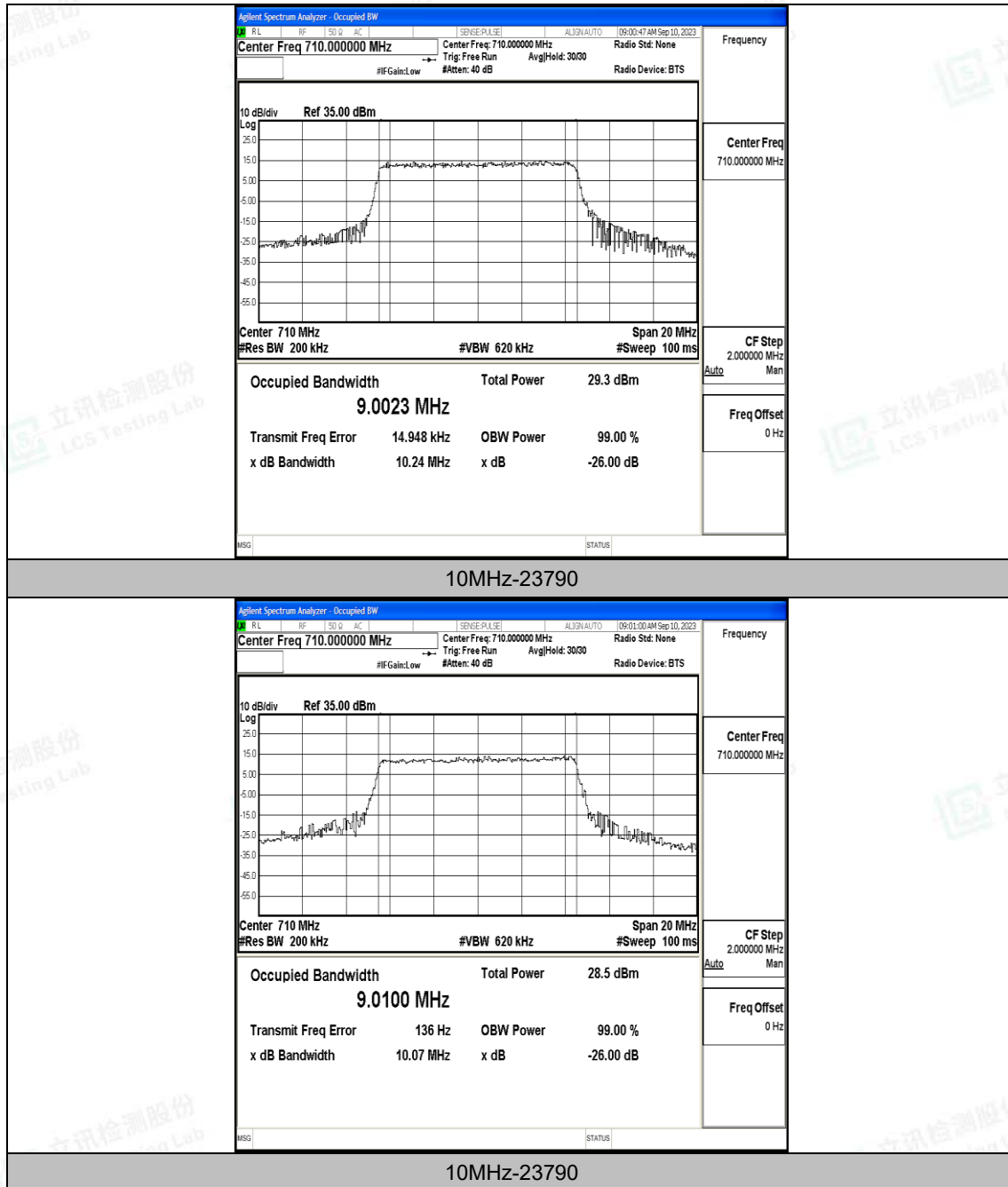


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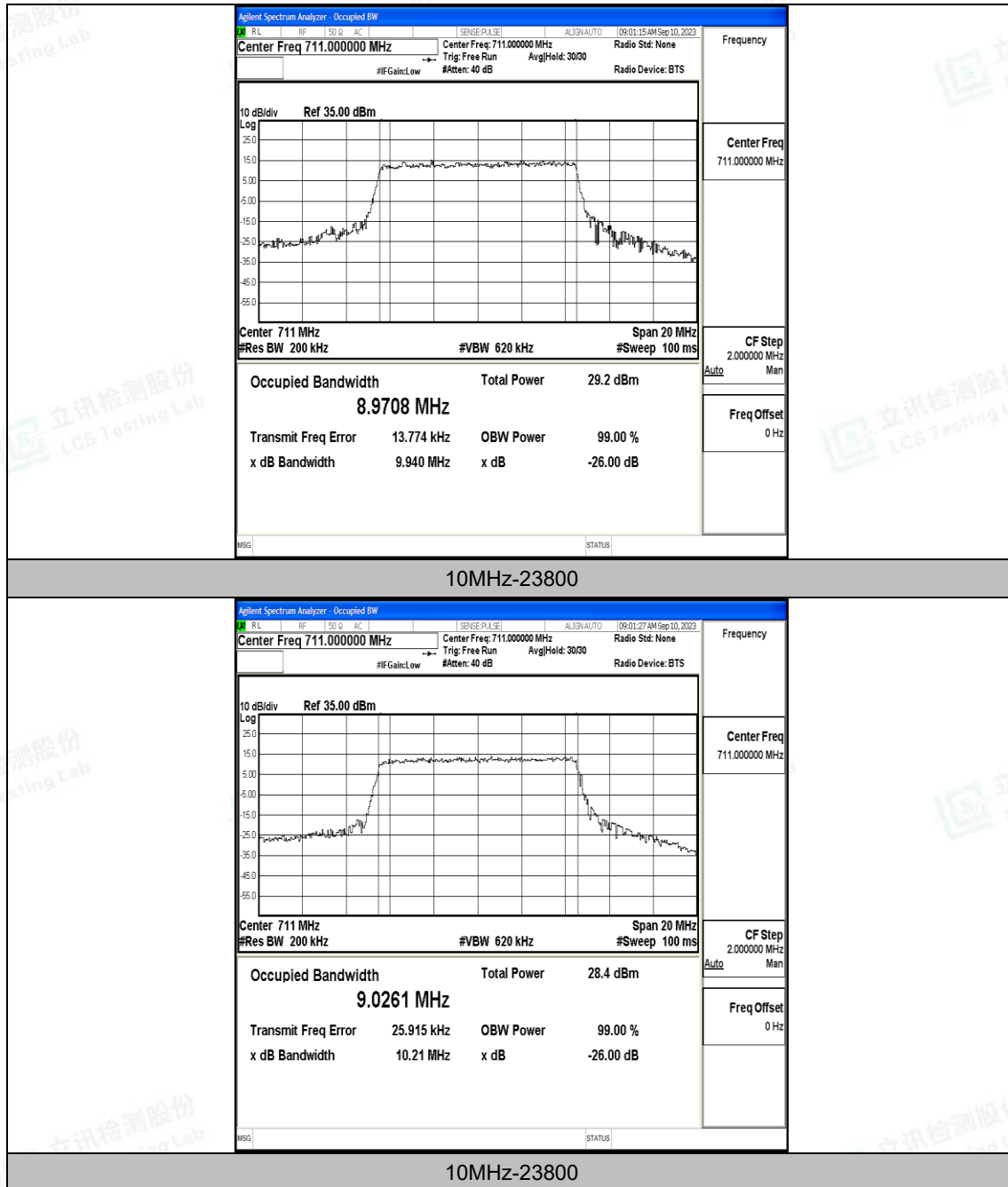


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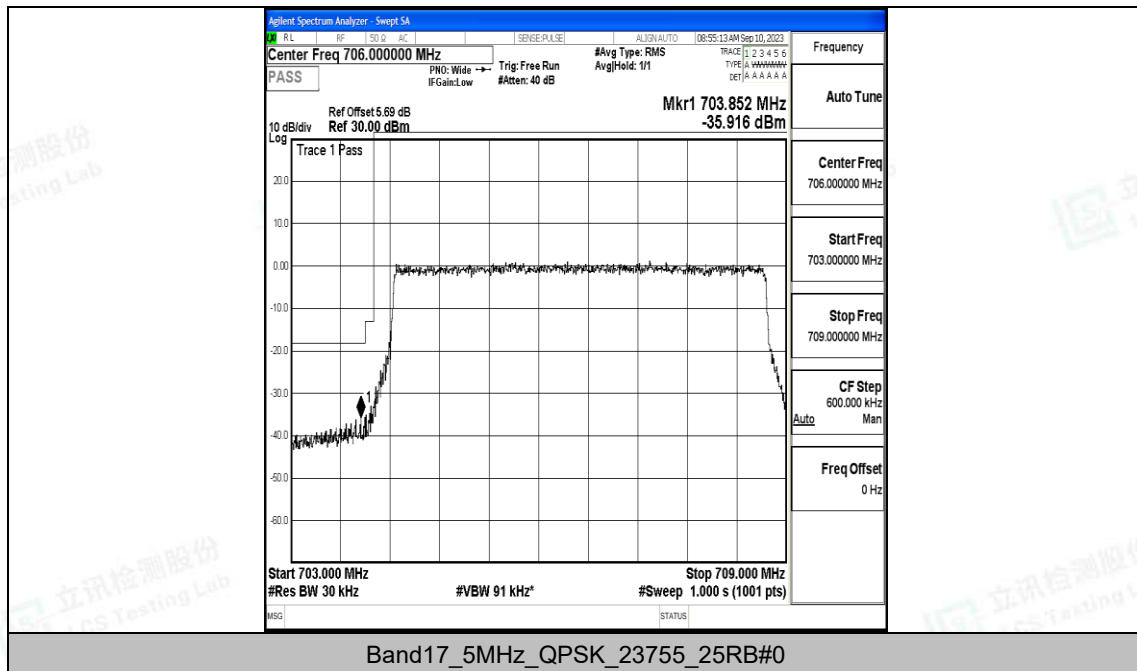


K.4 Band Edge

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Peak Frequency	Result(dBm)	Verdict
Band17	5MHz	QPSK	23755	25RB#0	703.85	-35.92	PASS
Band17	5MHz	16QAM	23755	25RB#0	703.85	-36.65	PASS
Band17	5MHz	QPSK	23825	25RB#0	716.10	-36.87	PASS
Band17	5MHz	16QAM	23825	25RB#0	716.14	-36.25	PASS
Band17	10MHz	QPSK	23780	50RB#0	703.73	-40.17	PASS
Band17	10MHz	16QAM	23780	50RB#0	703.83	-41.24	PASS
Band17	10MHz	QPSK	23800	50RB#0	716.14	-41.08	PASS
Band17	10MHz	16QAM	23800	50RB#0	716.21	-41.77	PASS

Test Graphs

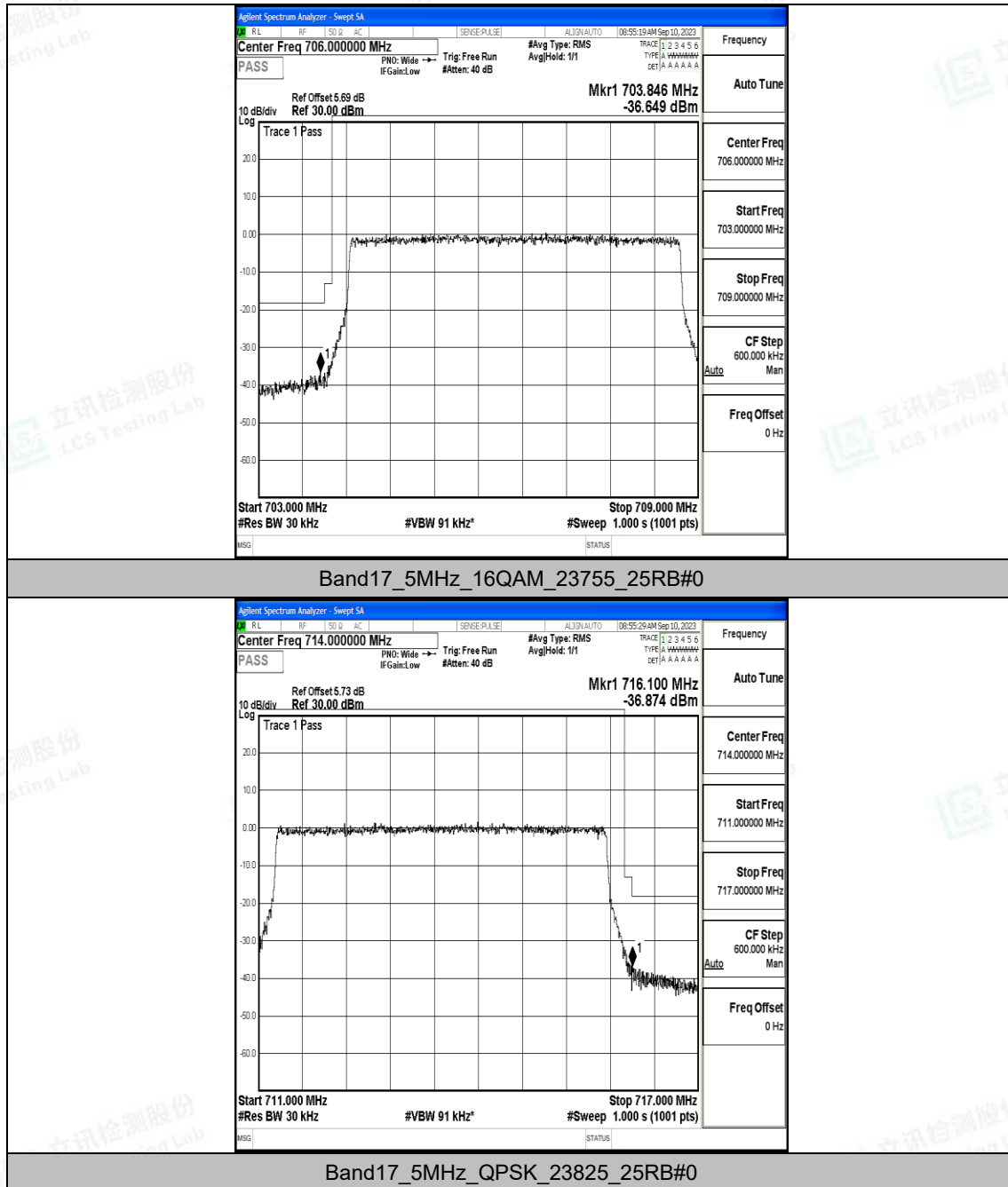


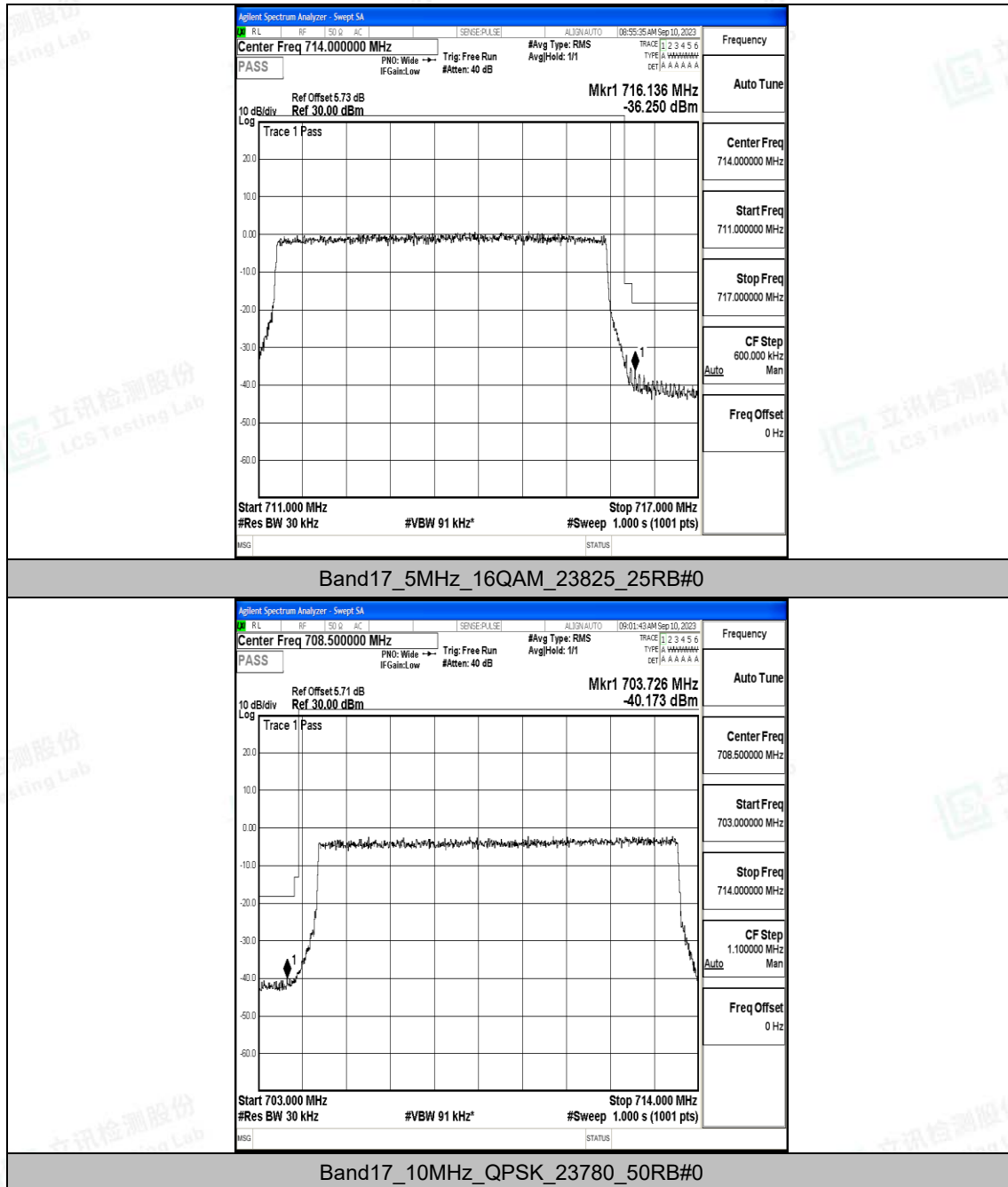
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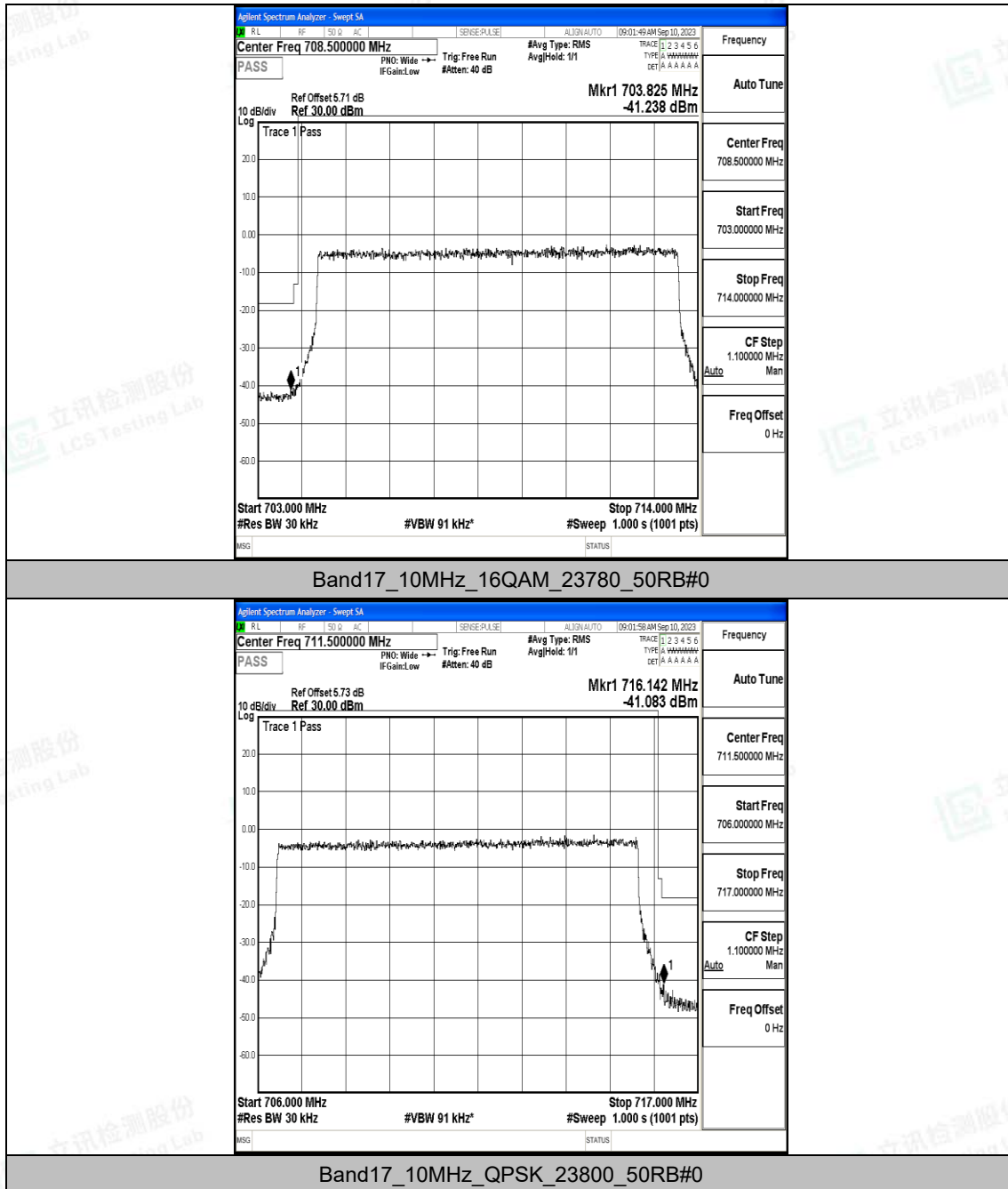
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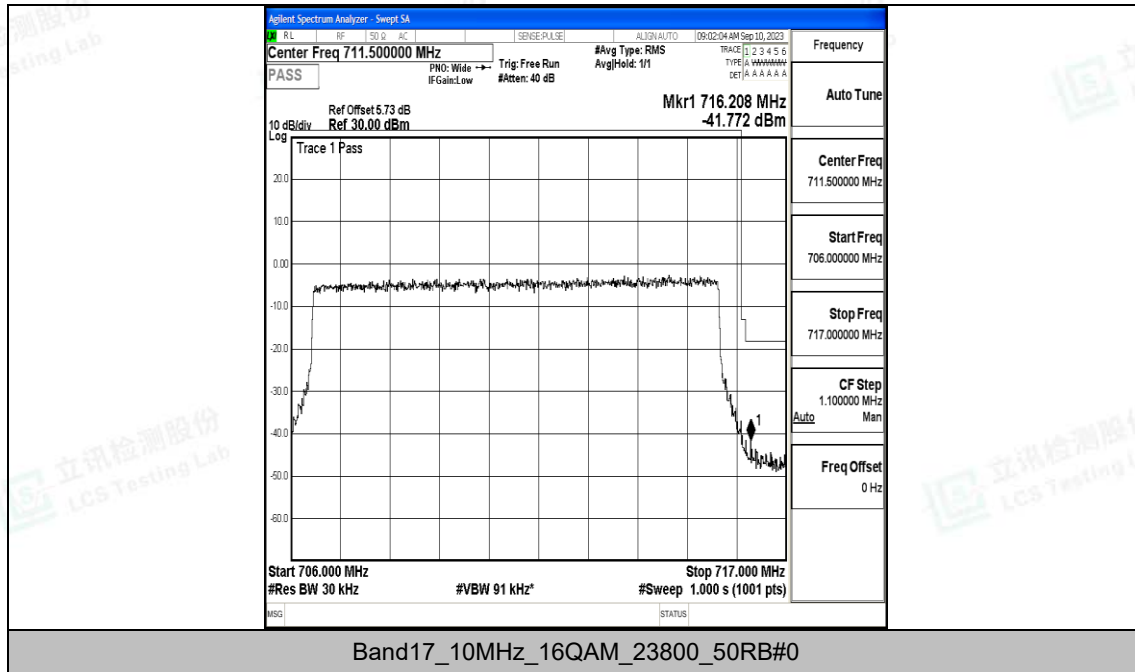
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K.5 Conducted Spurious Emission

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Frequency Range	Result (dBm)	Verdict
Band17	5MHz	QPSK	23755	1RB#0	0.009~0.15	-58.43	PASS
Band17	5MHz	QPSK	23755	1RB#0	0.15~30	-53.12	PASS
Band17	5MHz	QPSK	23755	1RB#0	30~1000	-61.15	PASS
Band17	5MHz	QPSK	23755	1RB#0	1000~3000	-47.38	PASS
Band17	5MHz	QPSK	23755	1RB#0	3000~10000	-45.53	PASS
Band17	5MHz	16QAM	23755	1RB#0	0.009~0.15	-61.47	PASS
Band17	5MHz	16QAM	23755	1RB#0	0.15~30	-54.42	PASS
Band17	5MHz	16QAM	23755	1RB#0	30~1000	-62.40	PASS
Band17	5MHz	16QAM	23755	1RB#0	1000~3000	-47.21	PASS
Band17	5MHz	16QAM	23755	1RB#0	3000~10000	-45.60	PASS
Band17	5MHz	QPSK	23790	1RB#0	0.009~0.15	-58.23	PASS
Band17	5MHz	QPSK	23790	1RB#0	0.15~30	-54.84	PASS
Band17	5MHz	QPSK	23790	1RB#0	30~1000	-61.77	PASS
Band17	5MHz	QPSK	23790	1RB#0	1000~3000	-46.15	PASS
Band17	5MHz	QPSK	23790	1RB#0	3000~10000	-45.69	PASS
Band17	5MHz	16QAM	23790	1RB#0	0.009~0.15	-60.61	PASS
Band17	5MHz	16QAM	23790	1RB#0	0.15~30	-54.97	PASS
Band17	5MHz	16QAM	23790	1RB#0	30~1000	-62.82	PASS
Band17	5MHz	16QAM	23790	1RB#0	1000~3000	-46.59	PASS
Band17	5MHz	16QAM	23790	1RB#0	3000~10000	-45.66	PASS
Band17	5MHz	QPSK	23825	1RB#0	0.009~0.15	-58.92	PASS
Band17	5MHz	QPSK	23825	1RB#0	0.15~30	-52.68	PASS
Band17	5MHz	QPSK	23825	1RB#0	30~1000	-60.04	PASS
Band17	5MHz	QPSK	23825	1RB#0	1000~3000	-46.12	PASS
Band17	5MHz	QPSK	23825	1RB#0	3000~10000	-45.83	PASS
Band17	5MHz	16QAM	23825	1RB#0	0.009~0.15	-57.57	PASS
Band17	5MHz	16QAM	23825	1RB#0	0.15~30	-55.40	PASS
Band17	5MHz	16QAM	23825	1RB#0	30~1000	-62.00	PASS
Band17	5MHz	16QAM	23825	1RB#0	1000~3000	-47.09	PASS
Band17	5MHz	16QAM	23825	1RB#0	3000~10000	-45.42	PASS
Band17	10MHz	QPSK	23780	1RB#0	0.009~0.15	-60.37	PASS
Band17	10MHz	QPSK	23780	1RB#0	0.15~30	-53.84	PASS
Band17	10MHz	QPSK	23780	1RB#0	30~1000	-63.54	PASS
Band17	10MHz	QPSK	23780	1RB#0	1000~3000	-46.85	PASS
Band17	10MHz	QPSK	23780	1RB#0	3000~10000	-45.76	PASS



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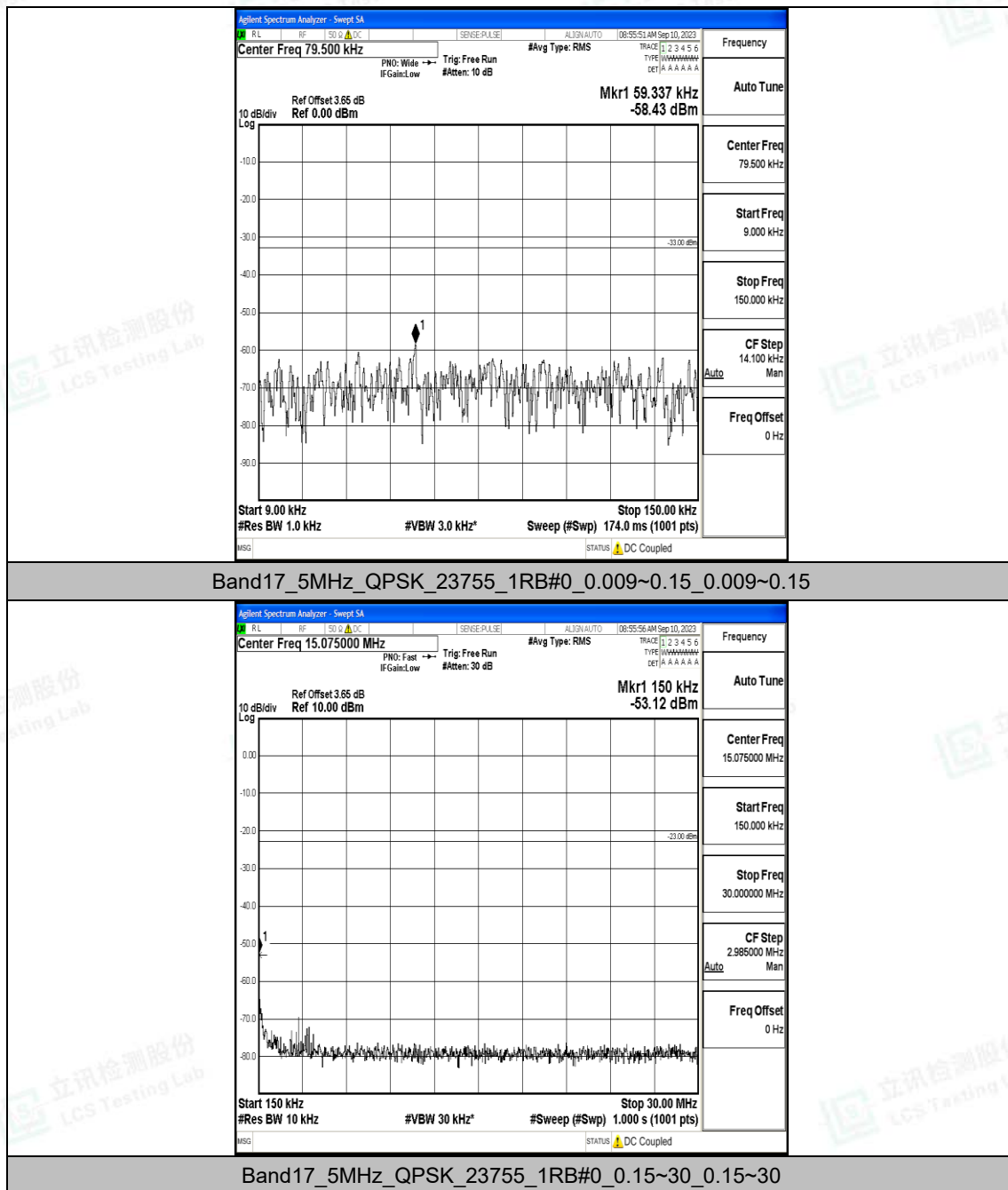


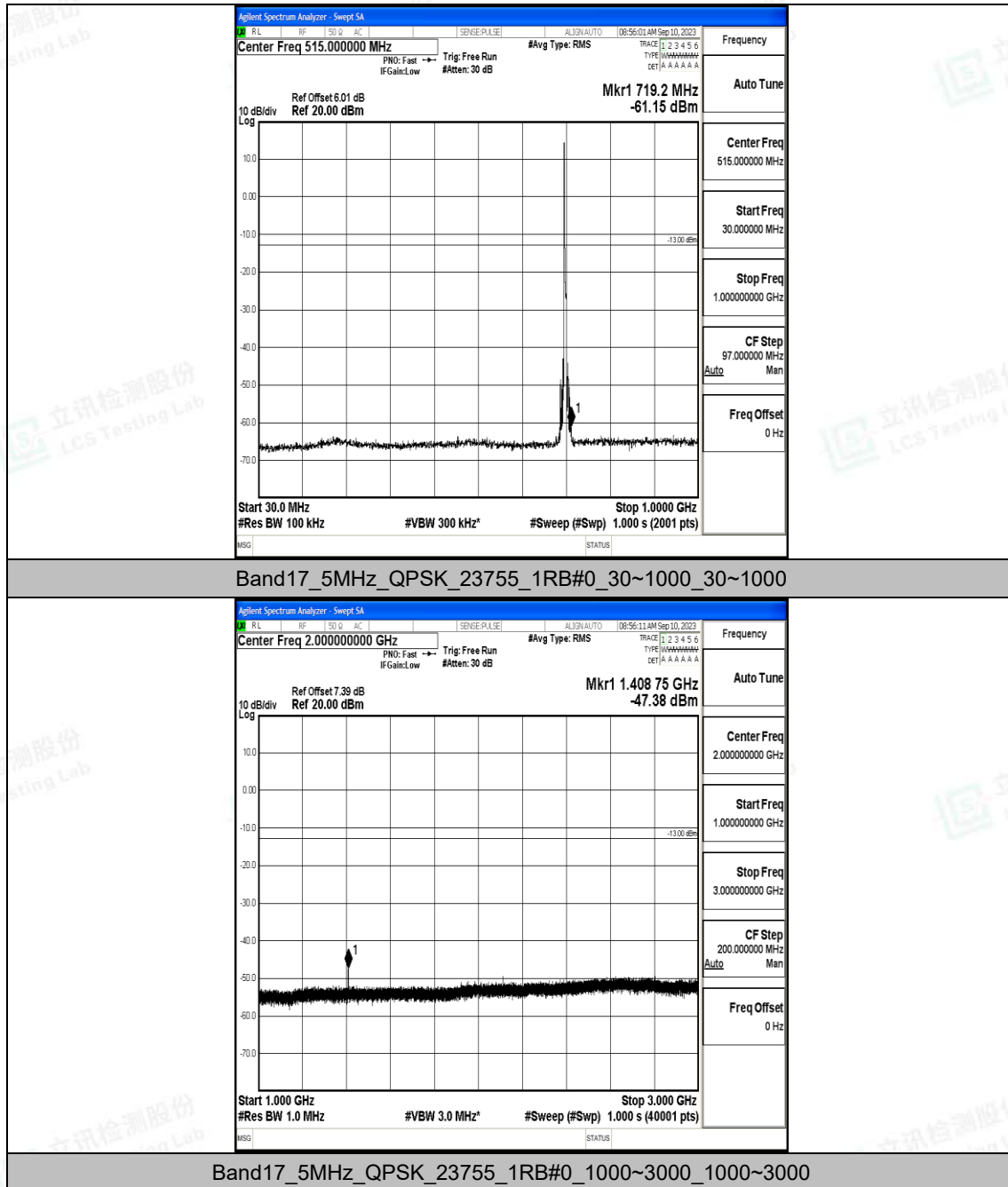
Band17	10MHz	16QAM	23780	1RB#0	0.009~0.15	-60.27	PASS
Band17	10MHz	16QAM	23780	1RB#0	0.15~30	-54.76	PASS
Band17	10MHz	16QAM	23780	1RB#0	30~1000	-63.39	PASS
Band17	10MHz	16QAM	23780	1RB#0	1000~3000	-45.06	PASS
Band17	10MHz	16QAM	23780	1RB#0	3000~10000	-45.84	PASS
Band17	10MHz	QPSK	23790	1RB#0	0.009~0.15	-60.13	PASS
Band17	10MHz	QPSK	23790	1RB#0	0.15~30	-51.96	PASS
Band17	10MHz	QPSK	23790	1RB#0	30~1000	-63.53	PASS
Band17	10MHz	QPSK	23790	1RB#0	1000~3000	-46.57	PASS
Band17	10MHz	QPSK	23790	1RB#0	3000~10000	-45.80	PASS
Band17	10MHz	16QAM	23790	1RB#0	0.009~0.15	-59.09	PASS
Band17	10MHz	16QAM	23790	1RB#0	0.15~30	-53.81	PASS
Band17	10MHz	16QAM	23790	1RB#0	30~1000	-63.51	PASS
Band17	10MHz	16QAM	23790	1RB#0	1000~3000	-47.86	PASS
Band17	10MHz	16QAM	23790	1RB#0	3000~10000	-45.38	PASS
Band17	10MHz	QPSK	23800	1RB#0	0.009~0.15	-60.11	PASS
Band17	10MHz	QPSK	23800	1RB#0	0.15~30	-52.81	PASS
Band17	10MHz	QPSK	23800	1RB#0	30~1000	-63.64	PASS
Band17	10MHz	QPSK	23800	1RB#0	1000~3000	-46.04	PASS
Band17	10MHz	QPSK	23800	1RB#0	3000~10000	-45.35	PASS
Band17	10MHz	16QAM	23800	1RB#0	0.009~0.15	-61.49	PASS
Band17	10MHz	16QAM	23800	1RB#0	0.15~30	-56.06	PASS
Band17	10MHz	16QAM	23800	1RB#0	30~1000	-63.60	PASS
Band17	10MHz	16QAM	23800	1RB#0	1000~3000	-46.97	PASS
Band17	10MHz	16QAM	23800	1RB#0	3000~10000	-46.00	PASS

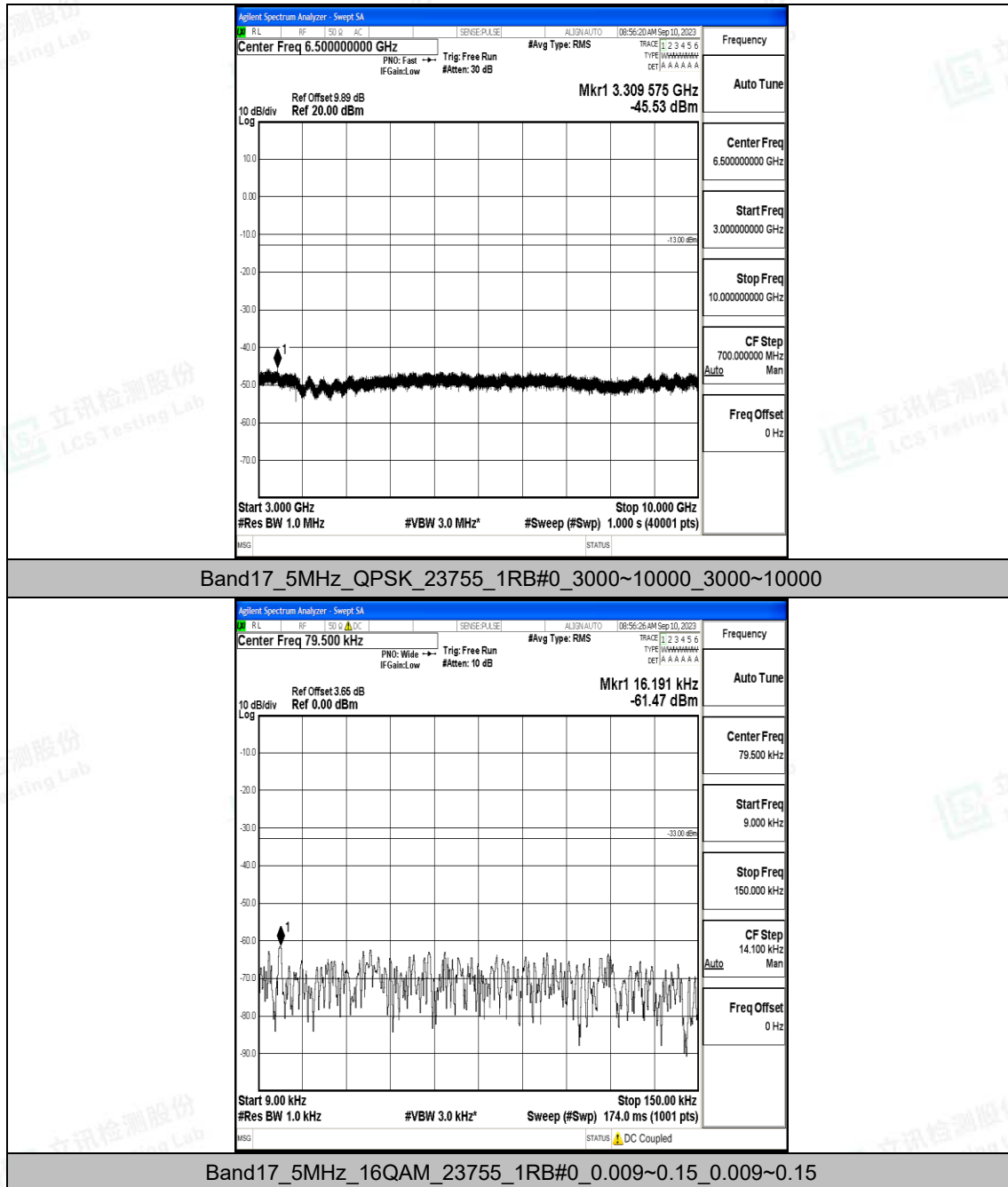




Test Graphs





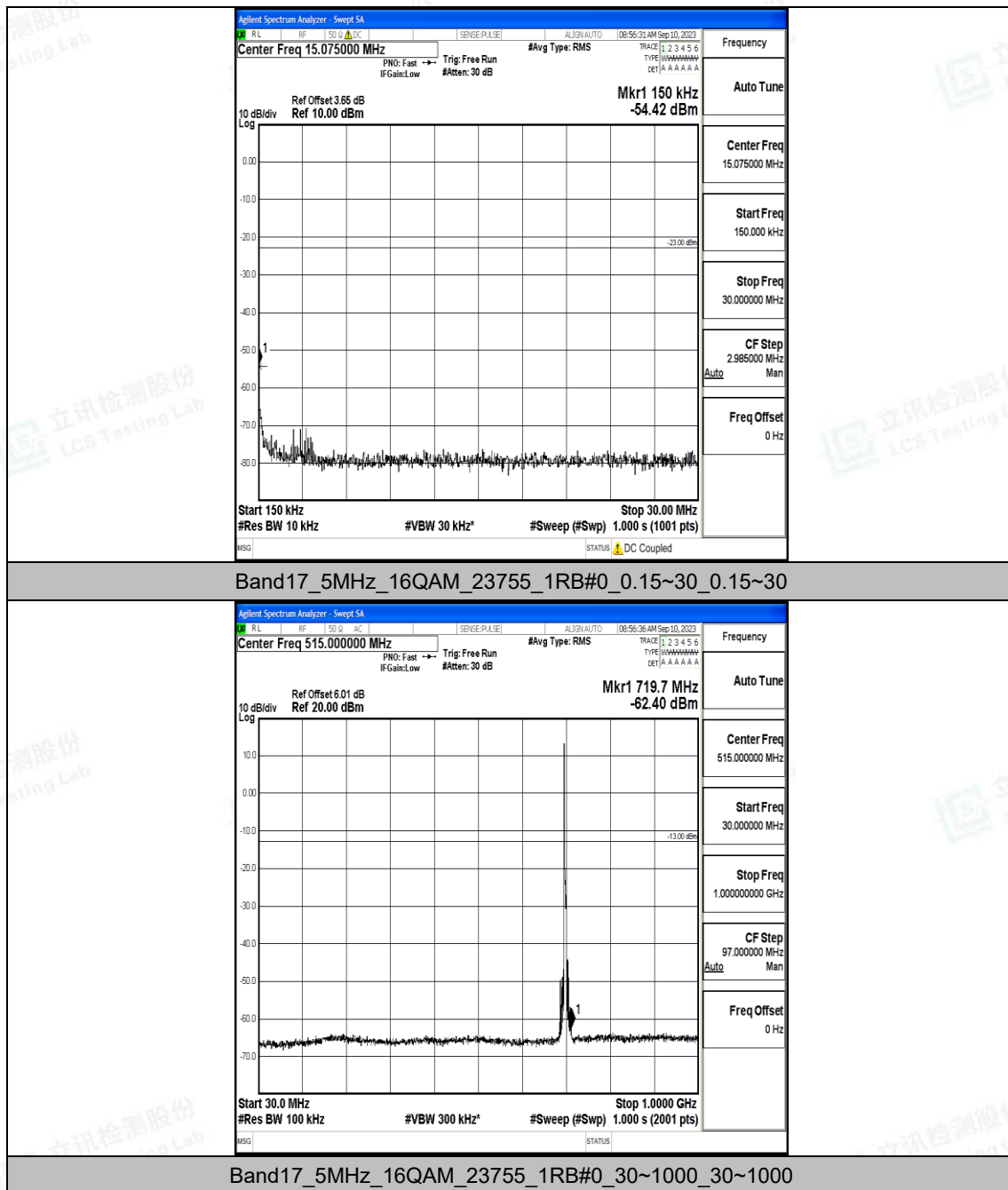


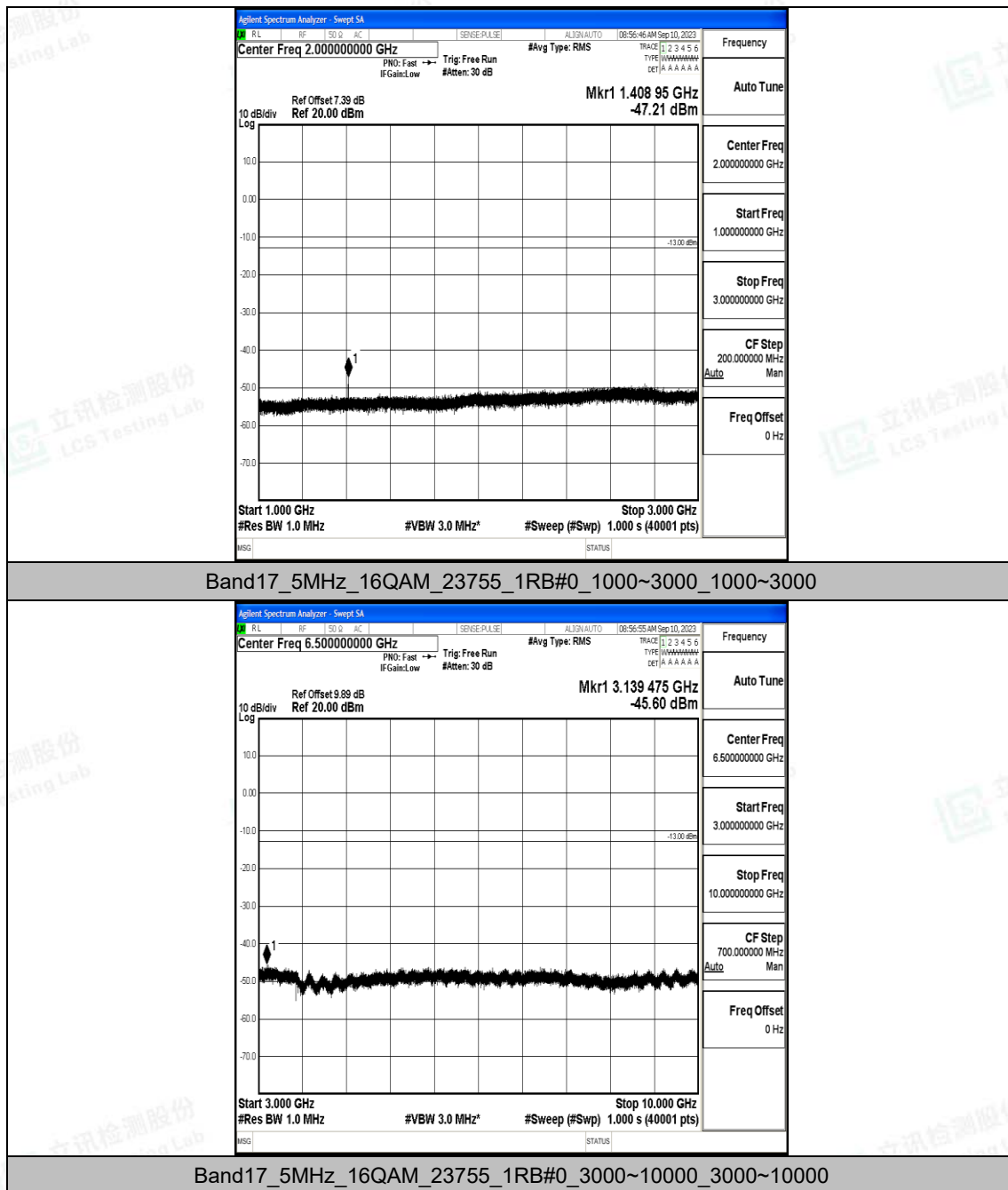
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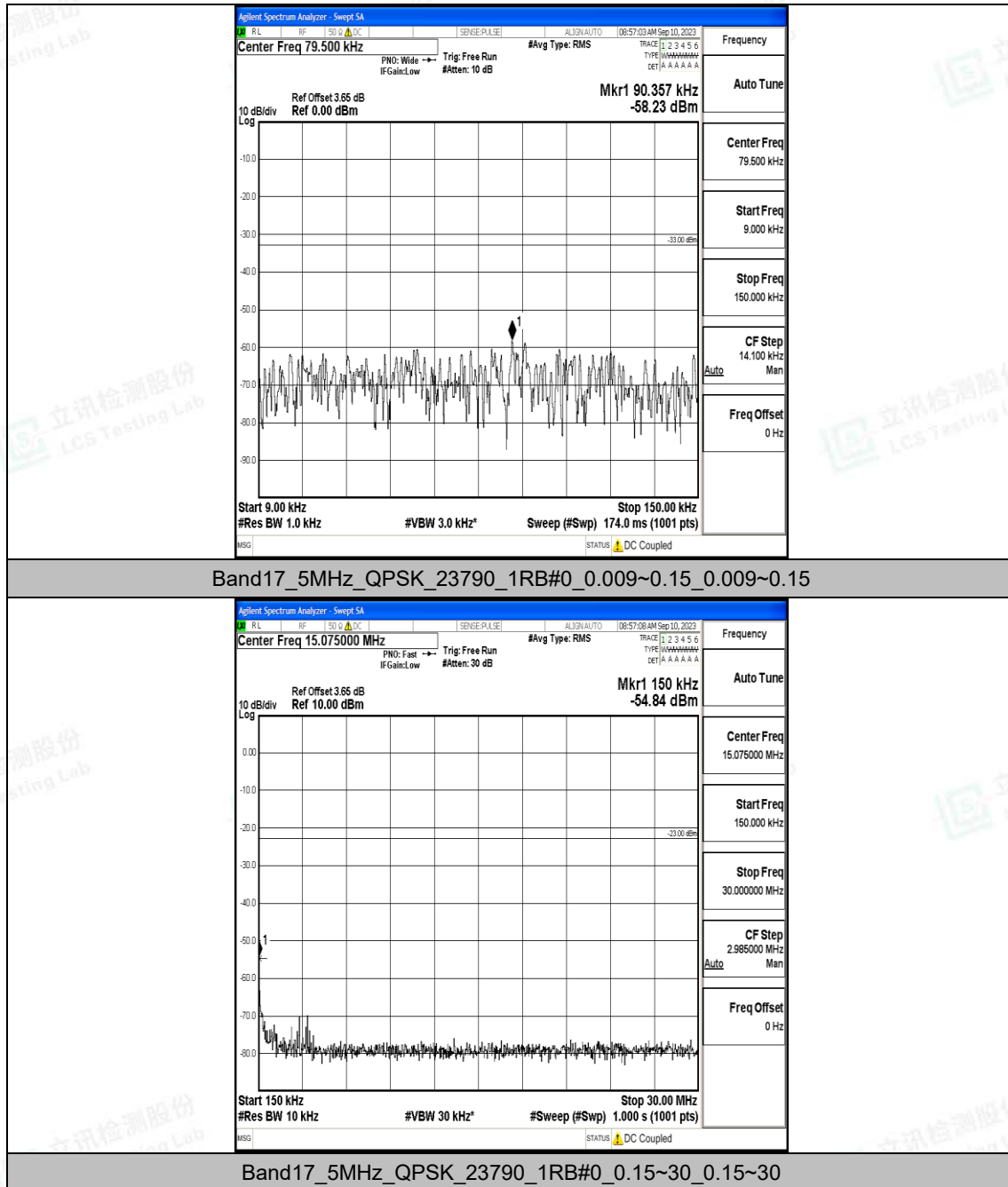


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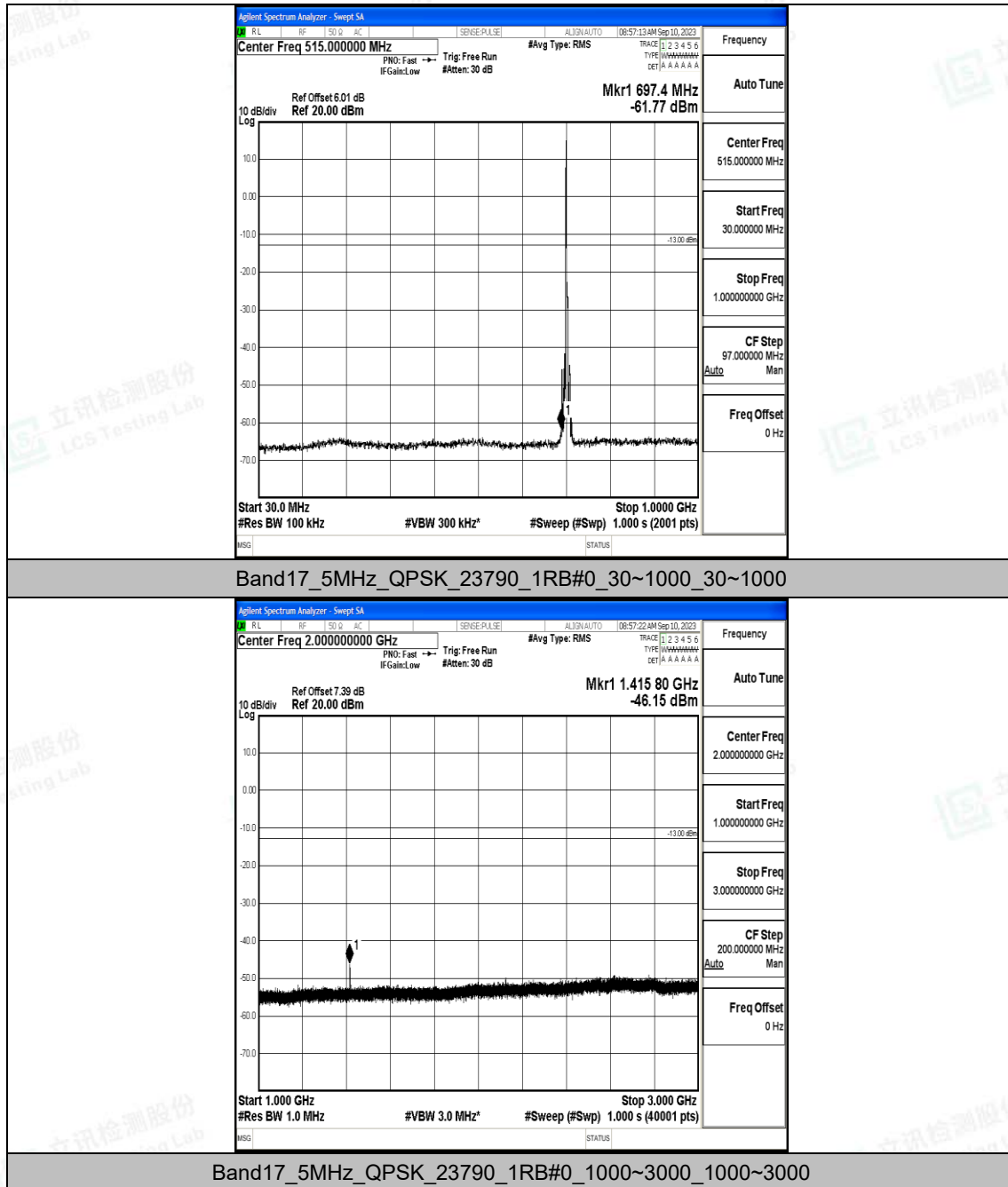


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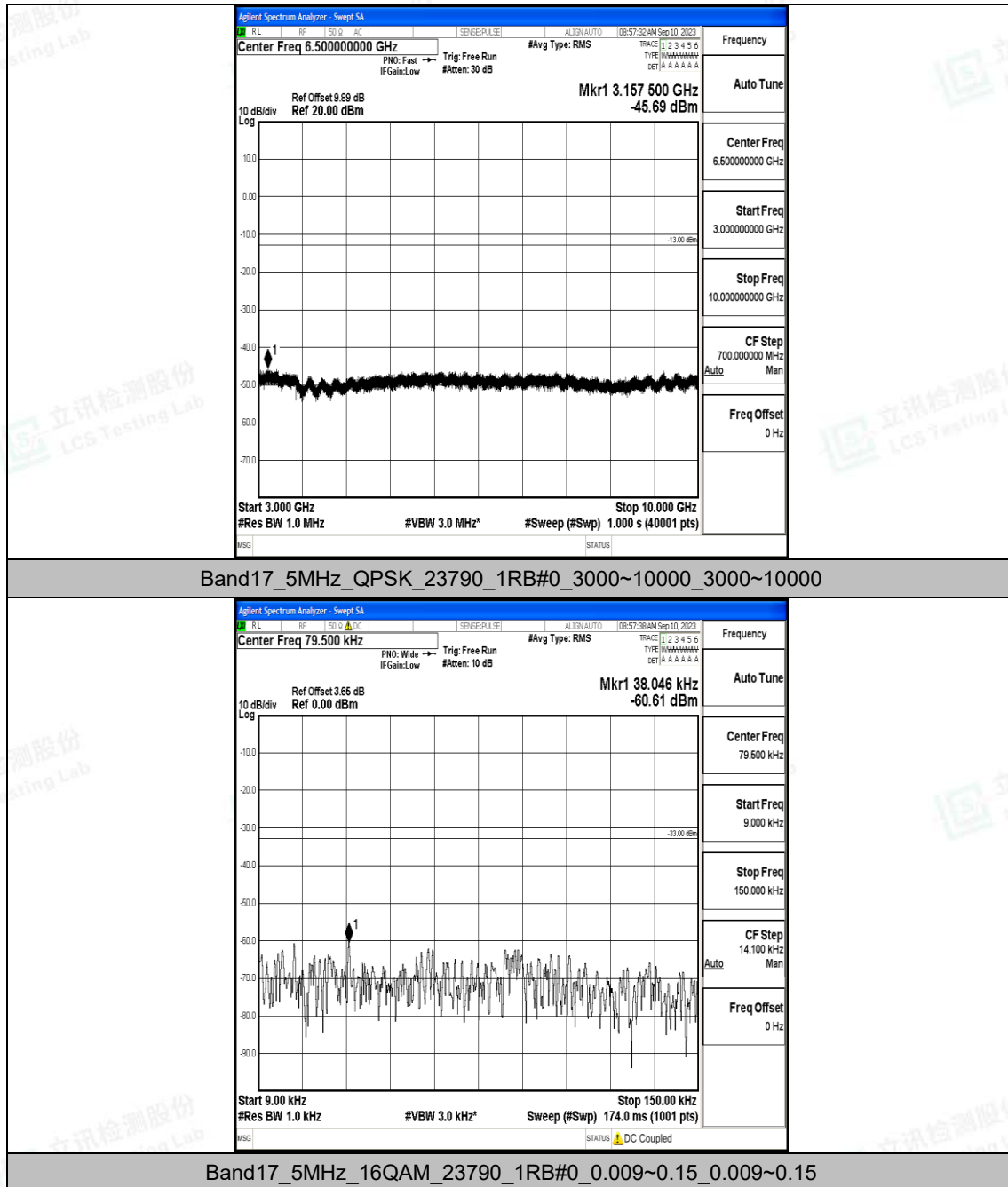


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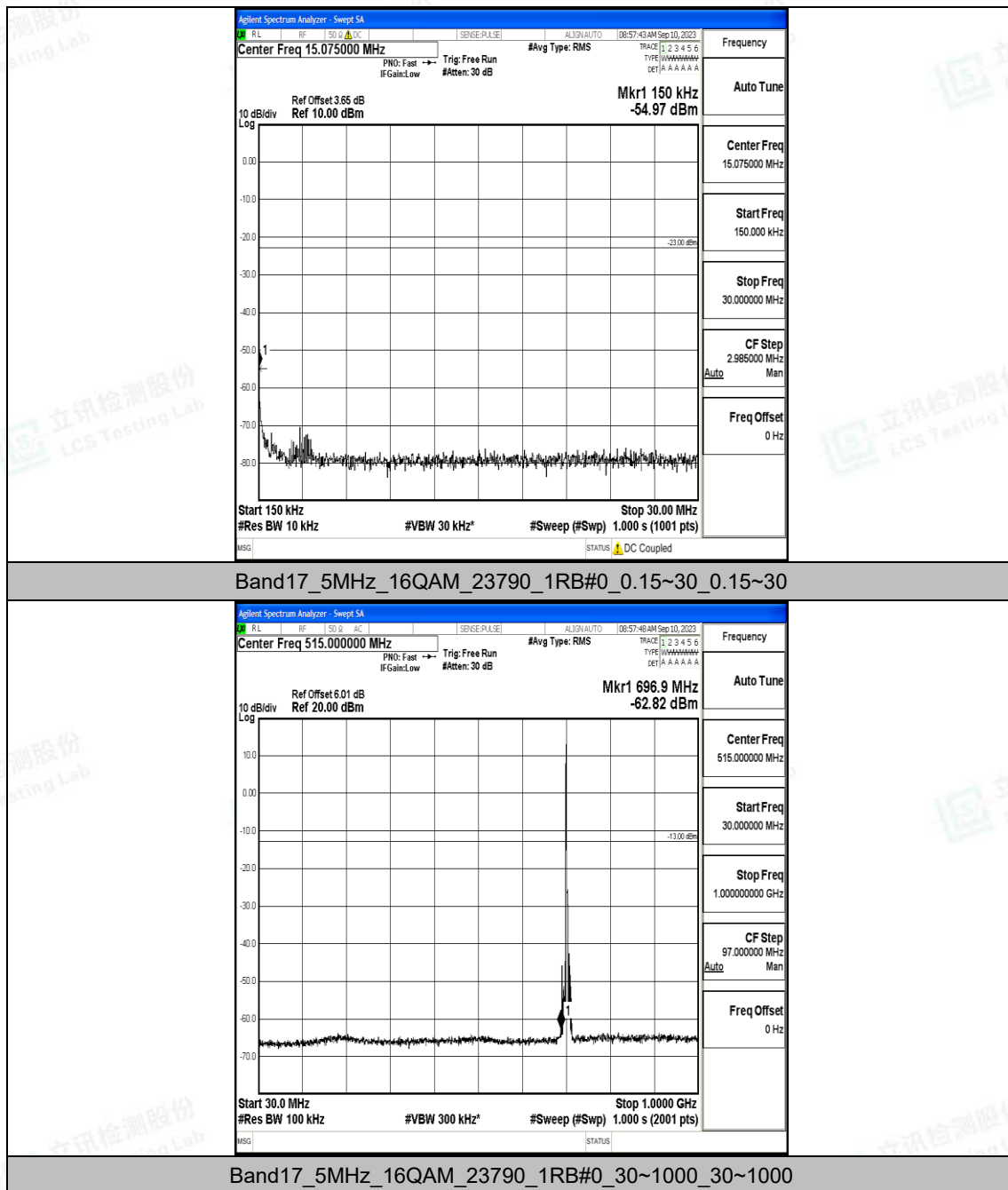


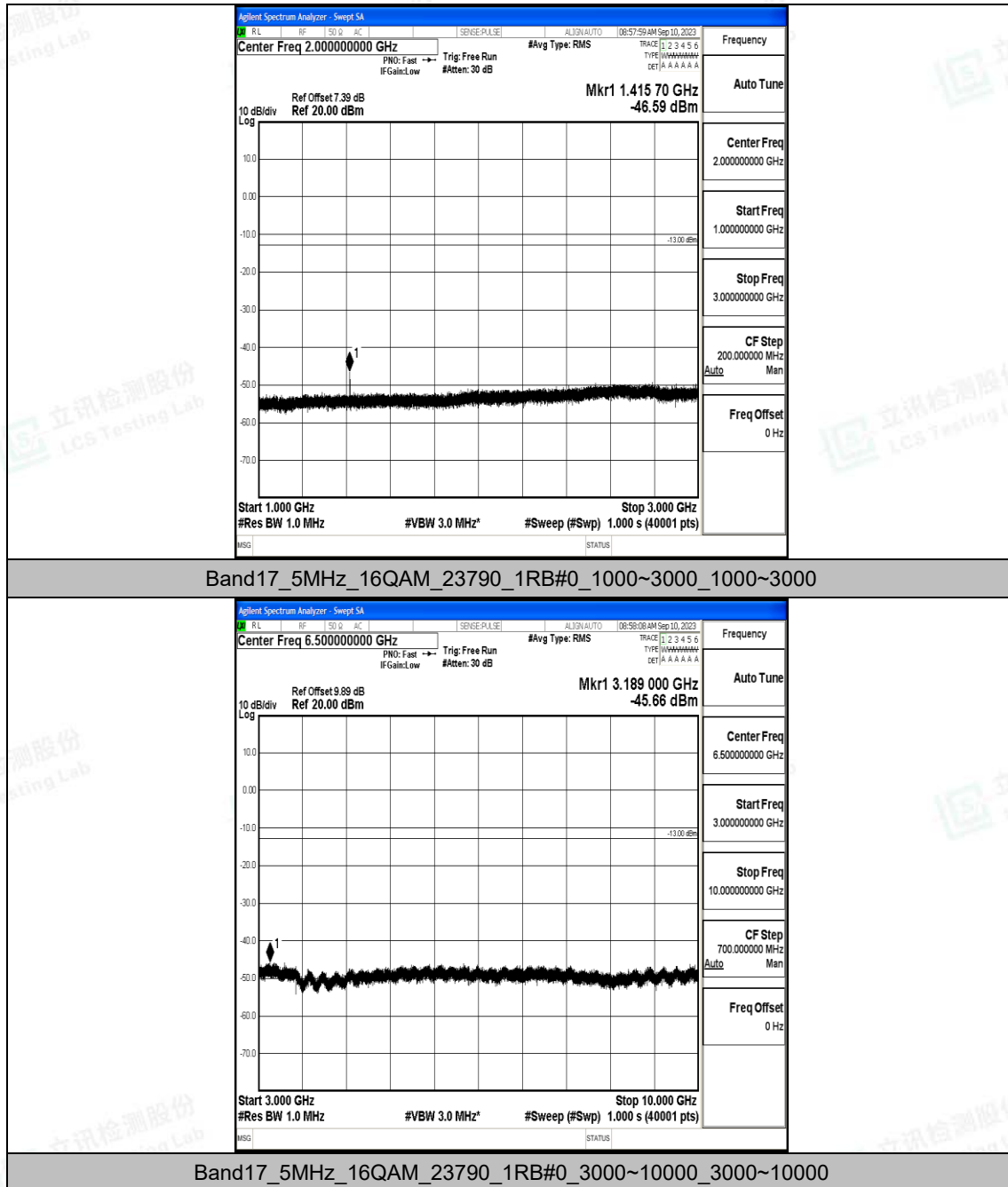
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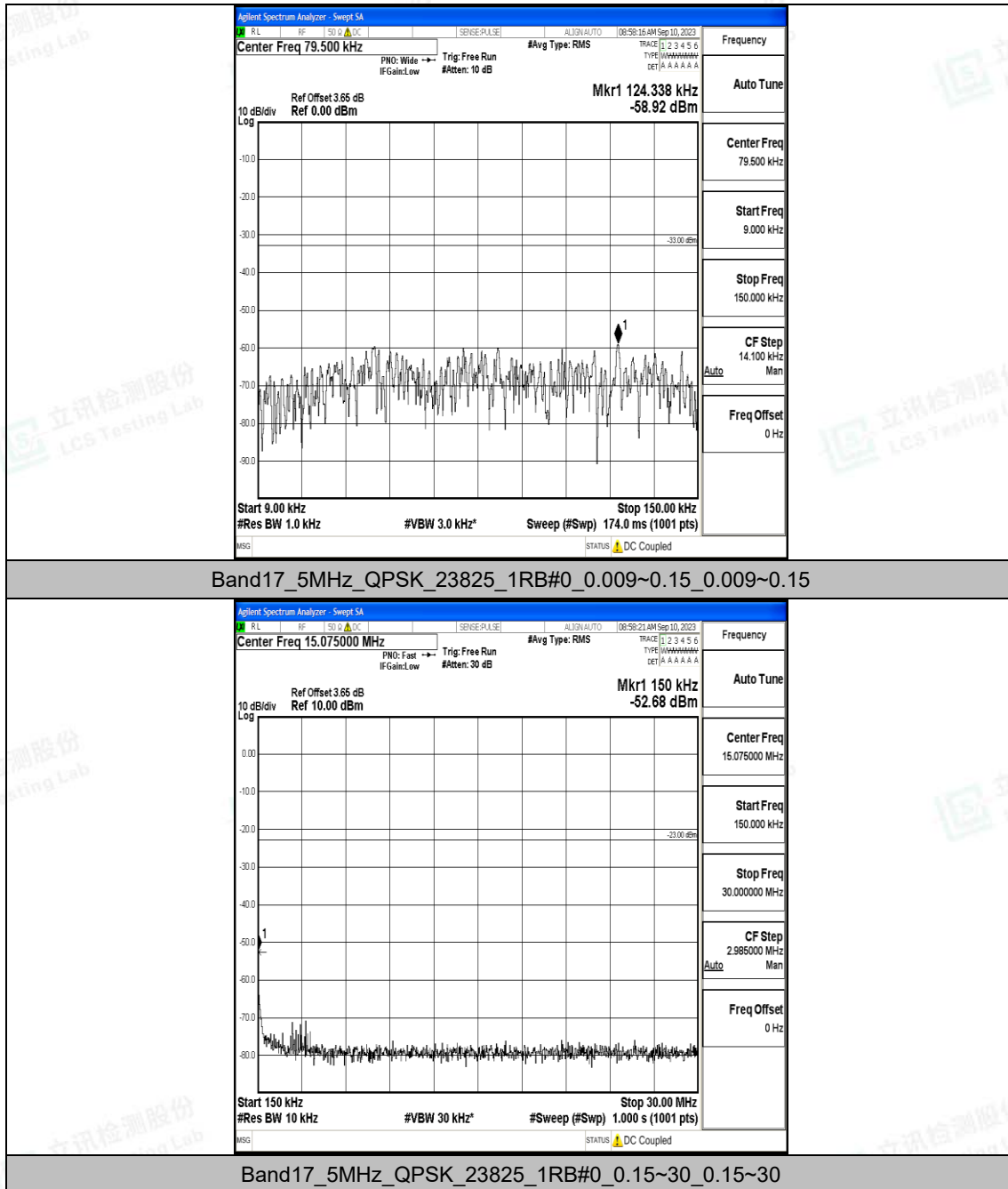


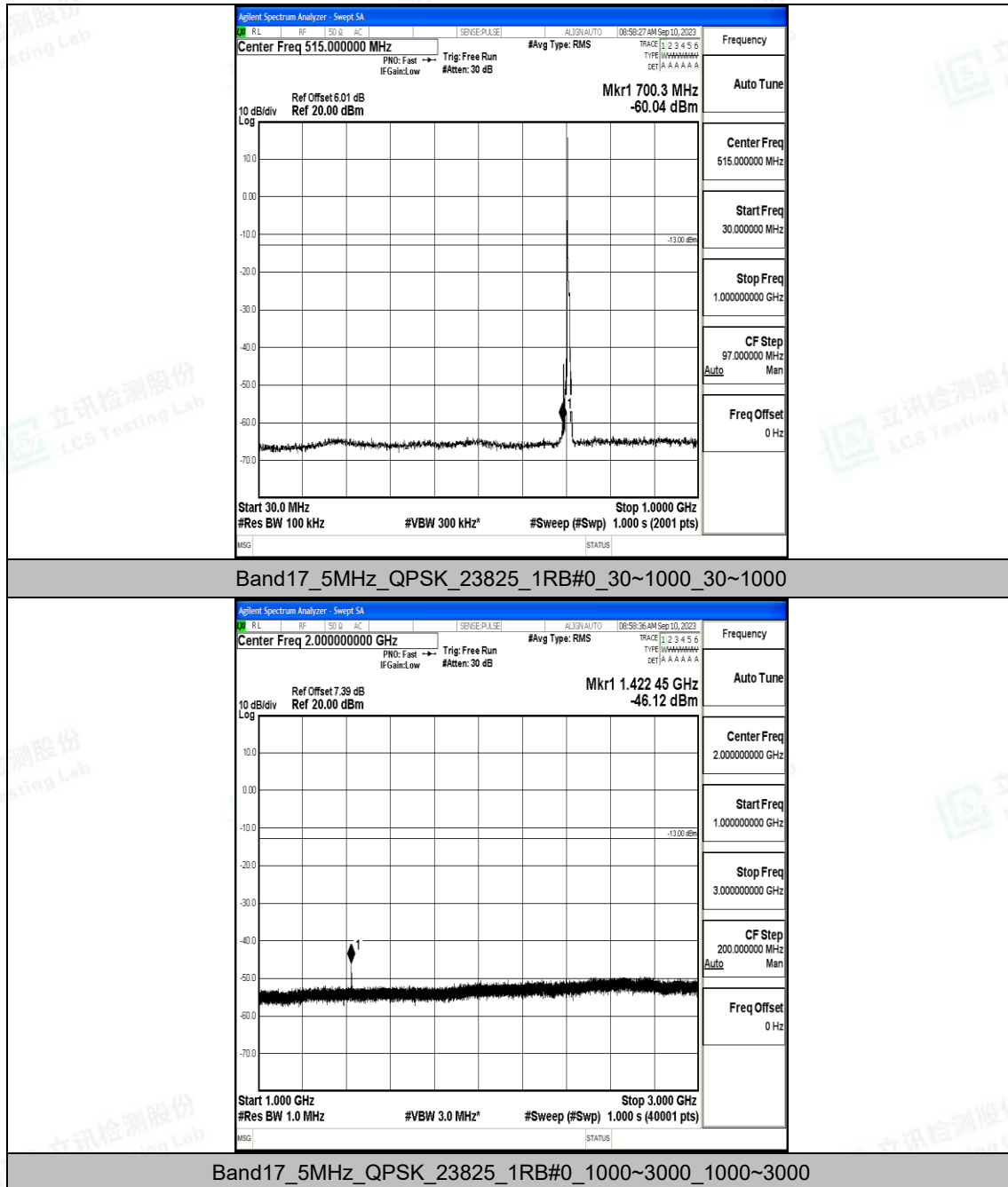
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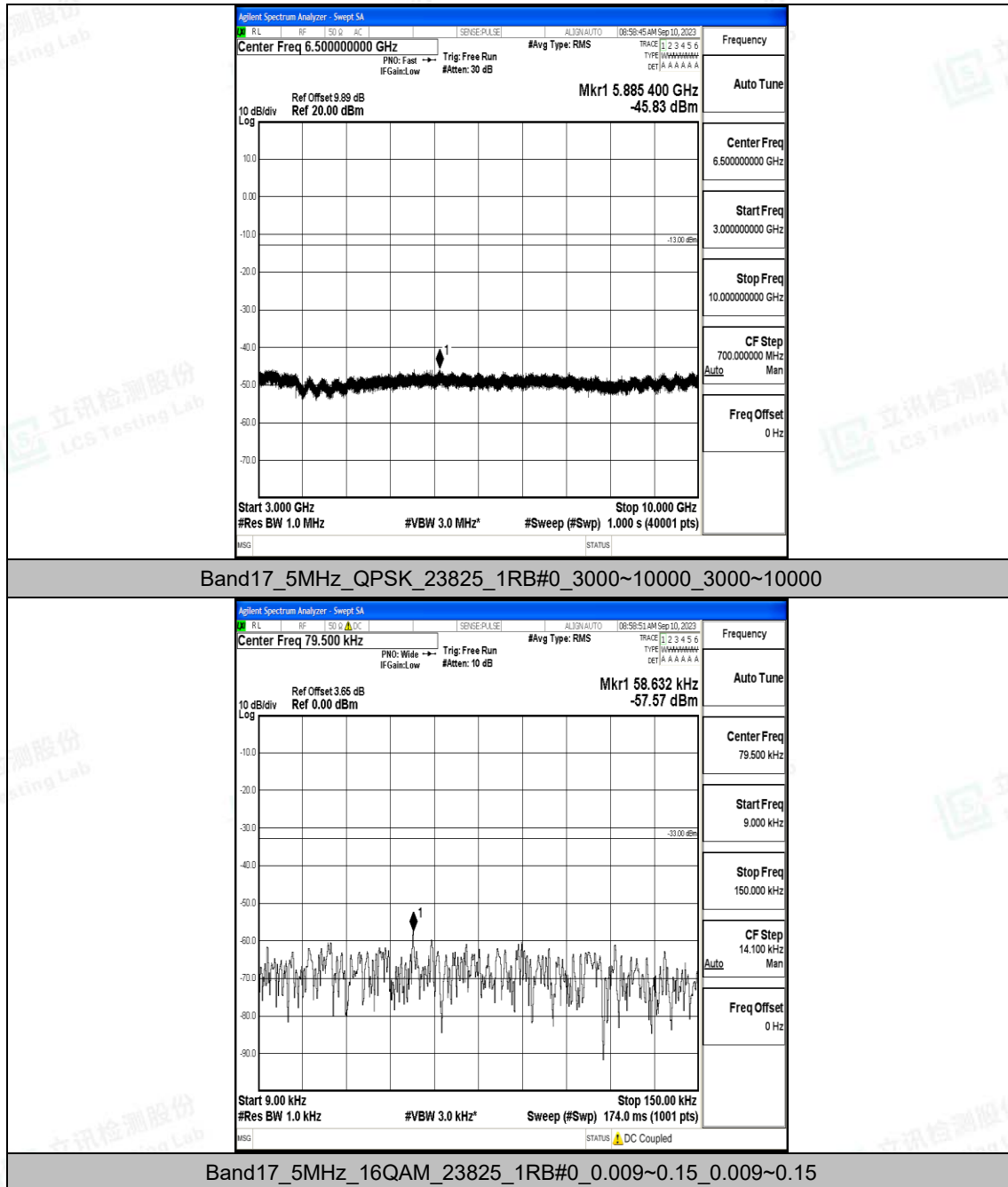
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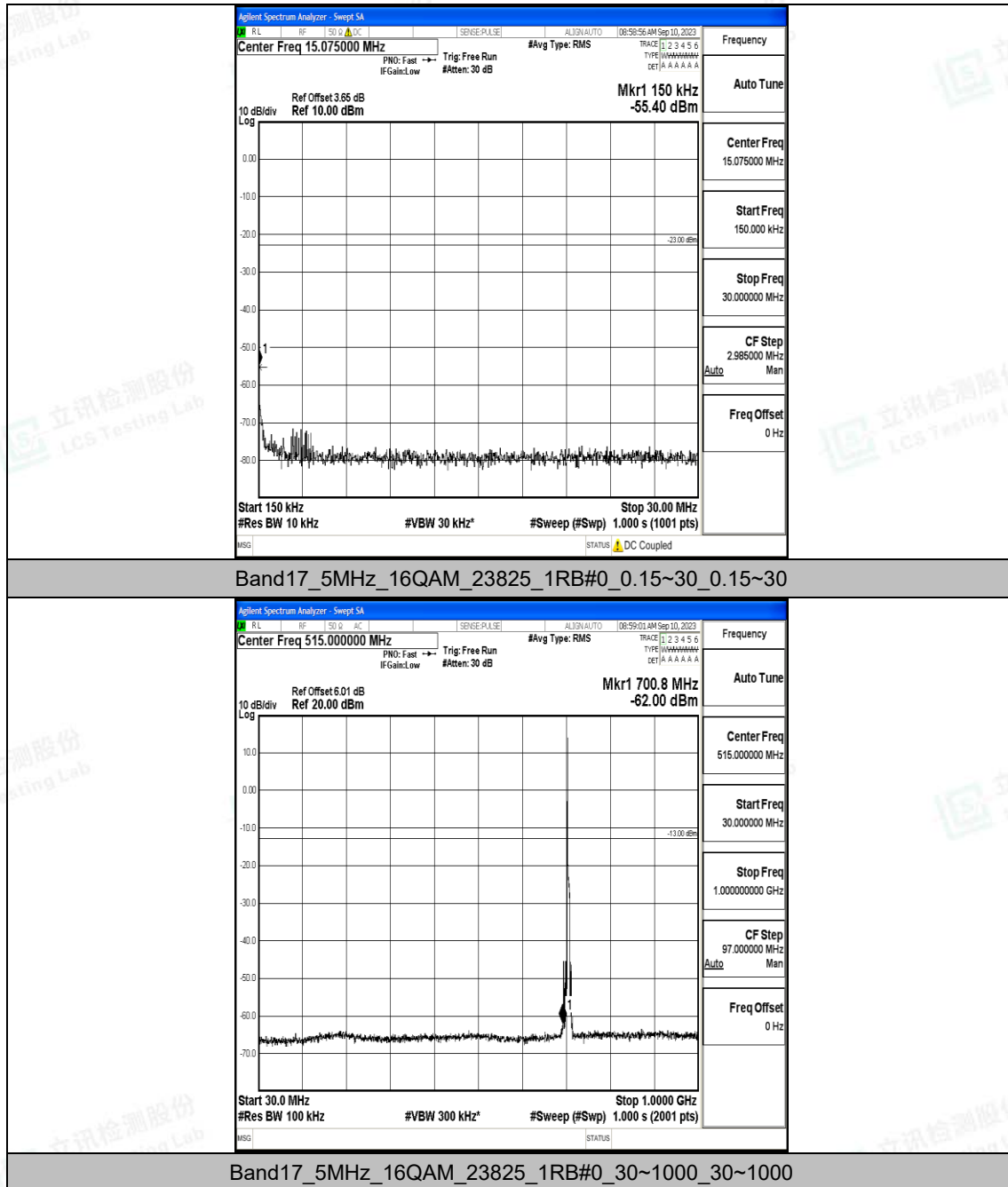


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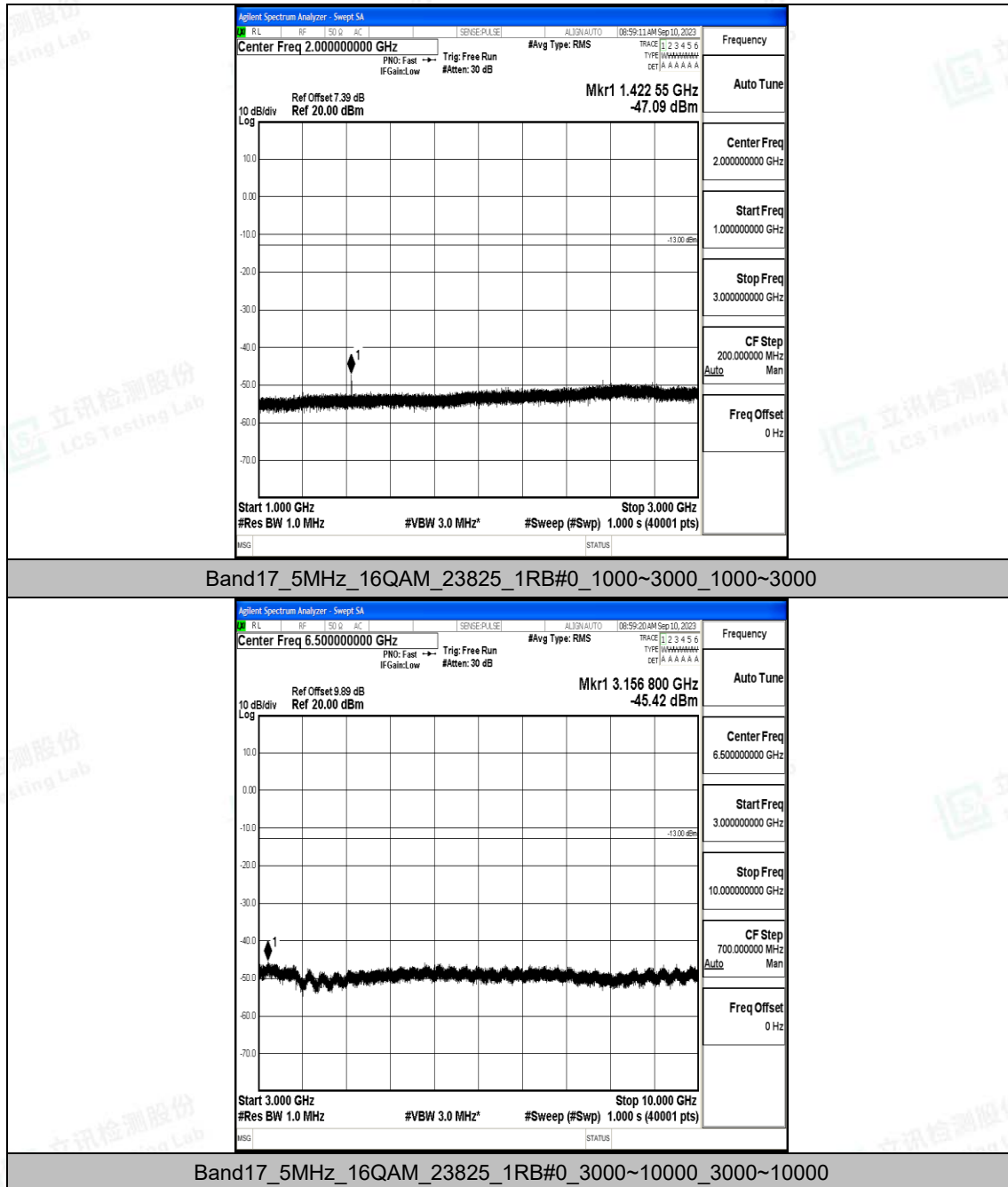


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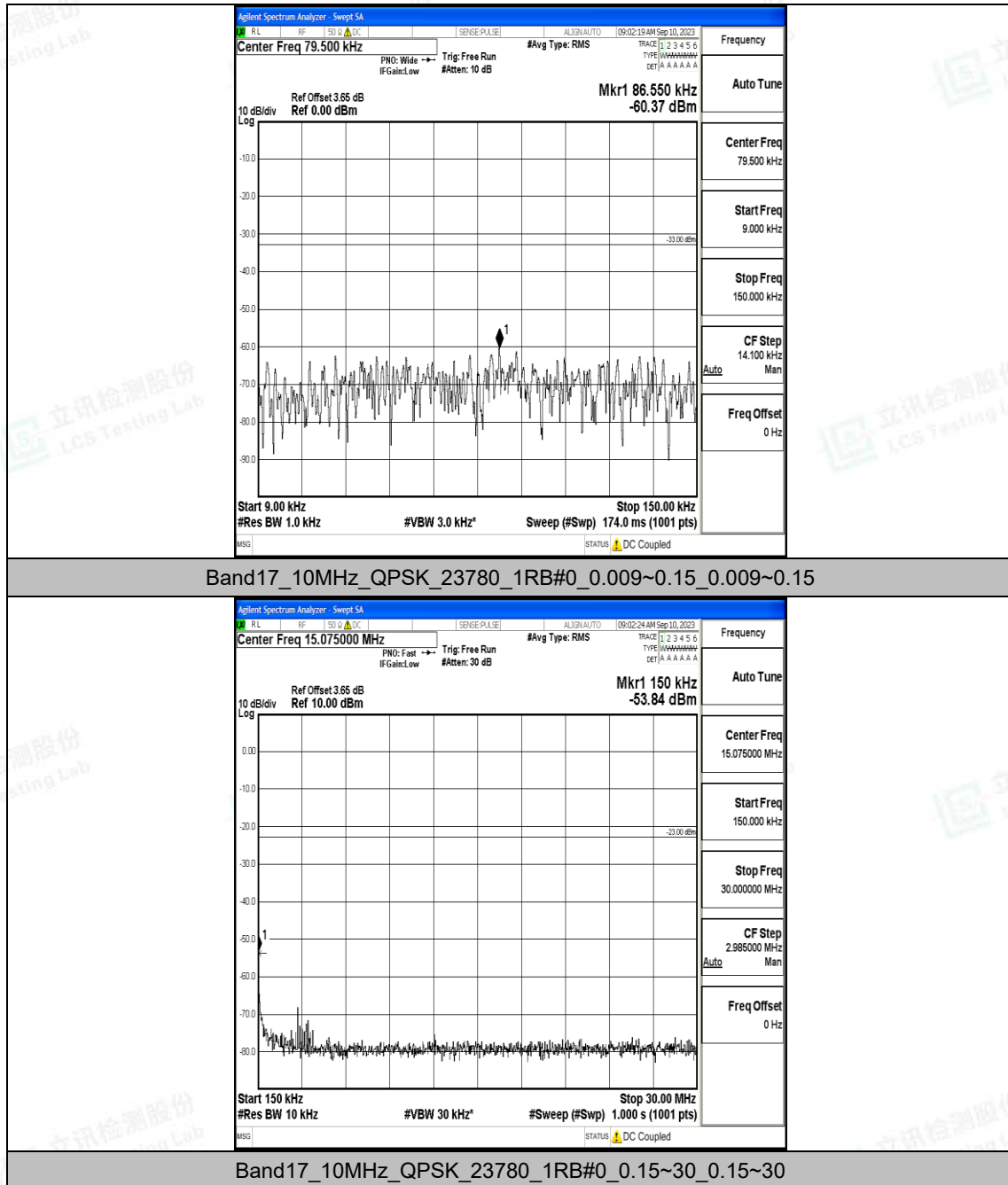


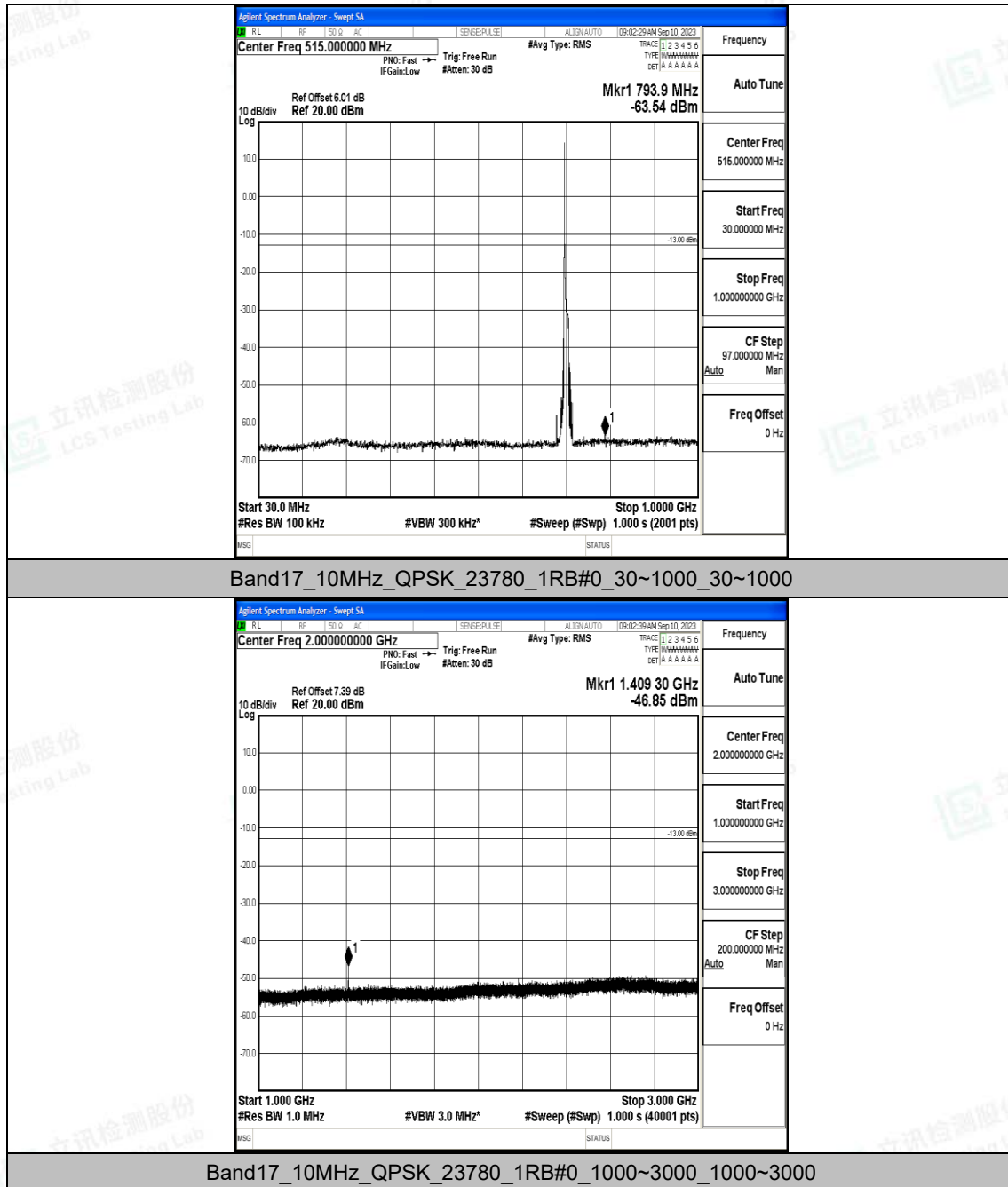
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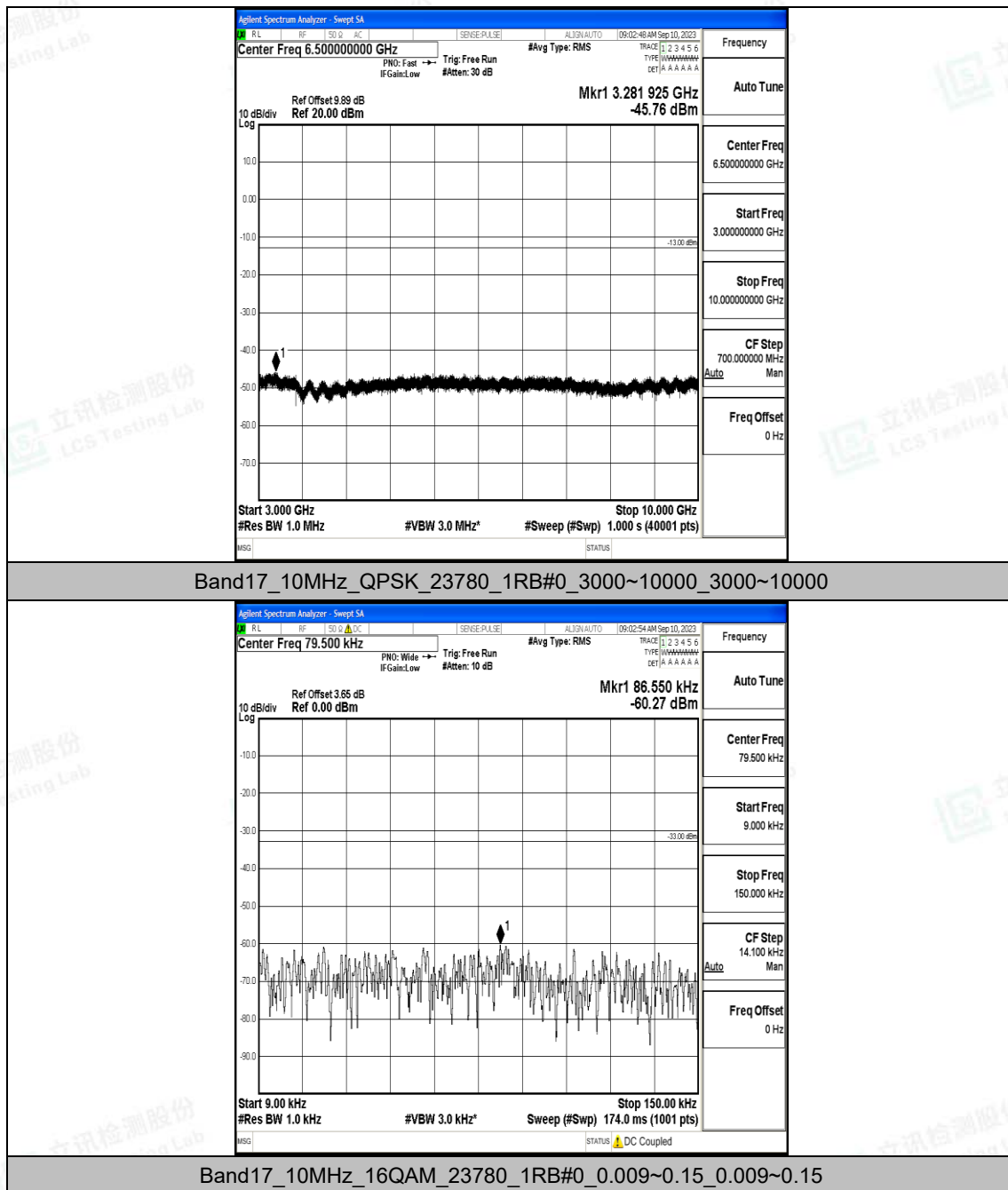
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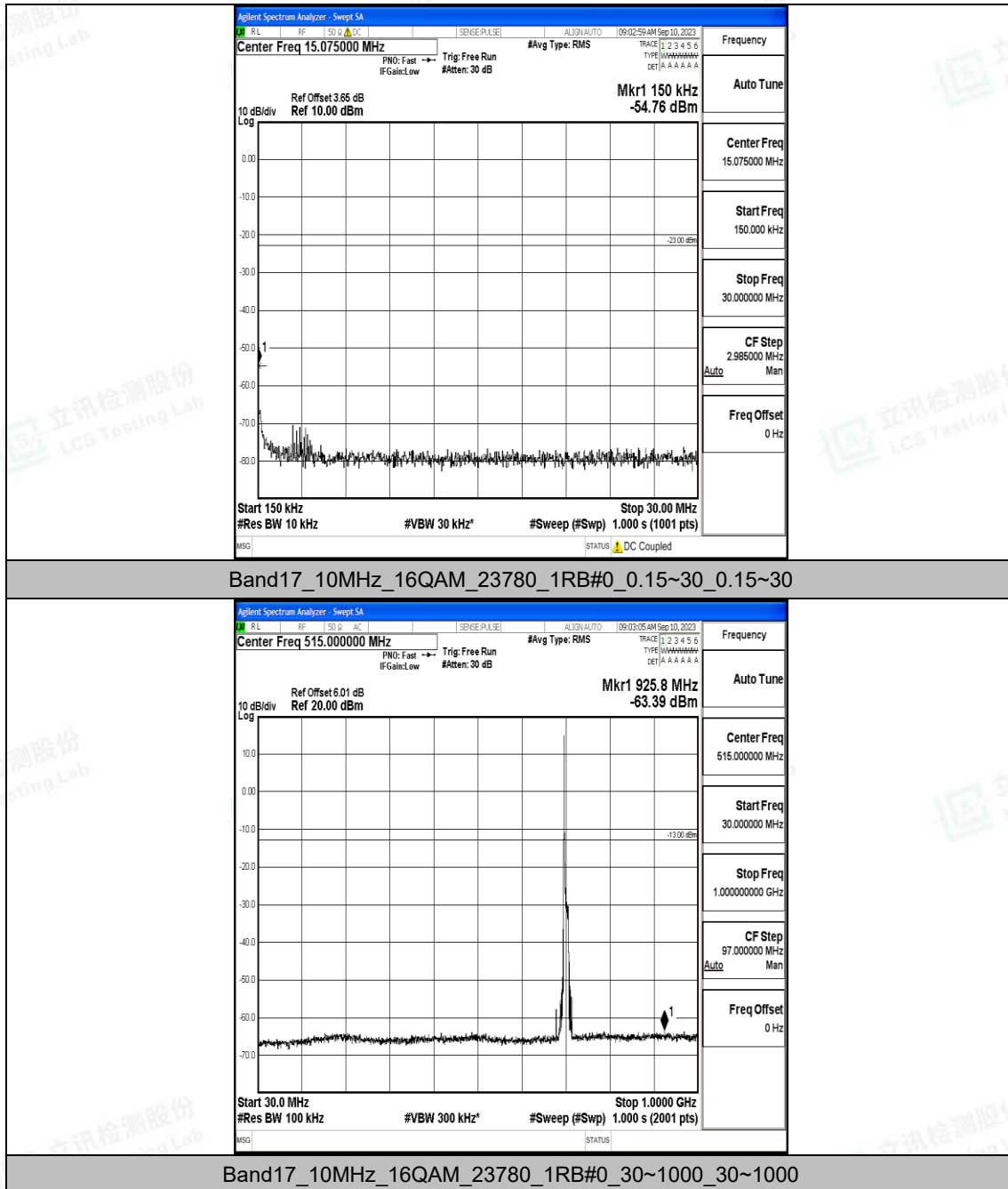


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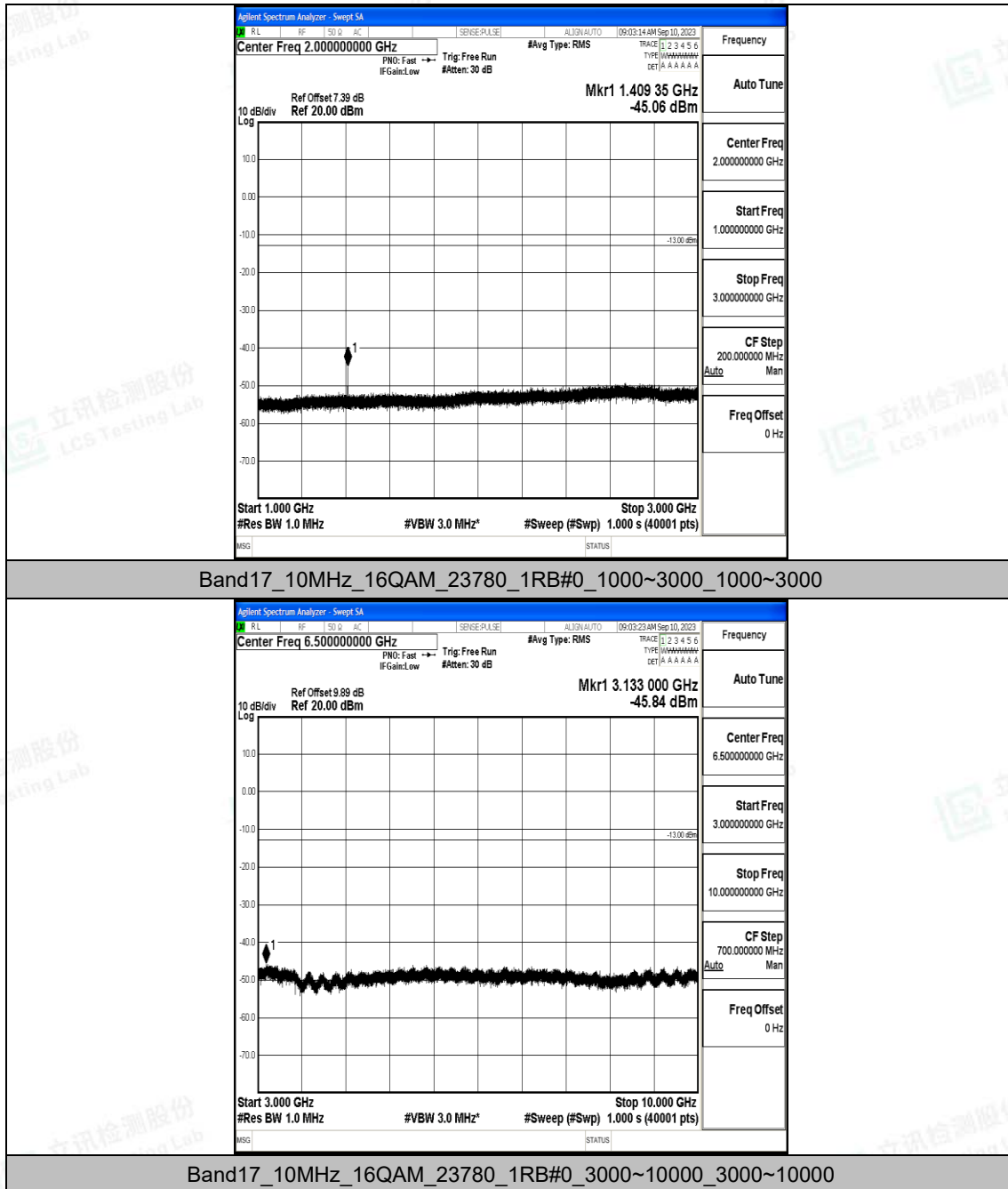


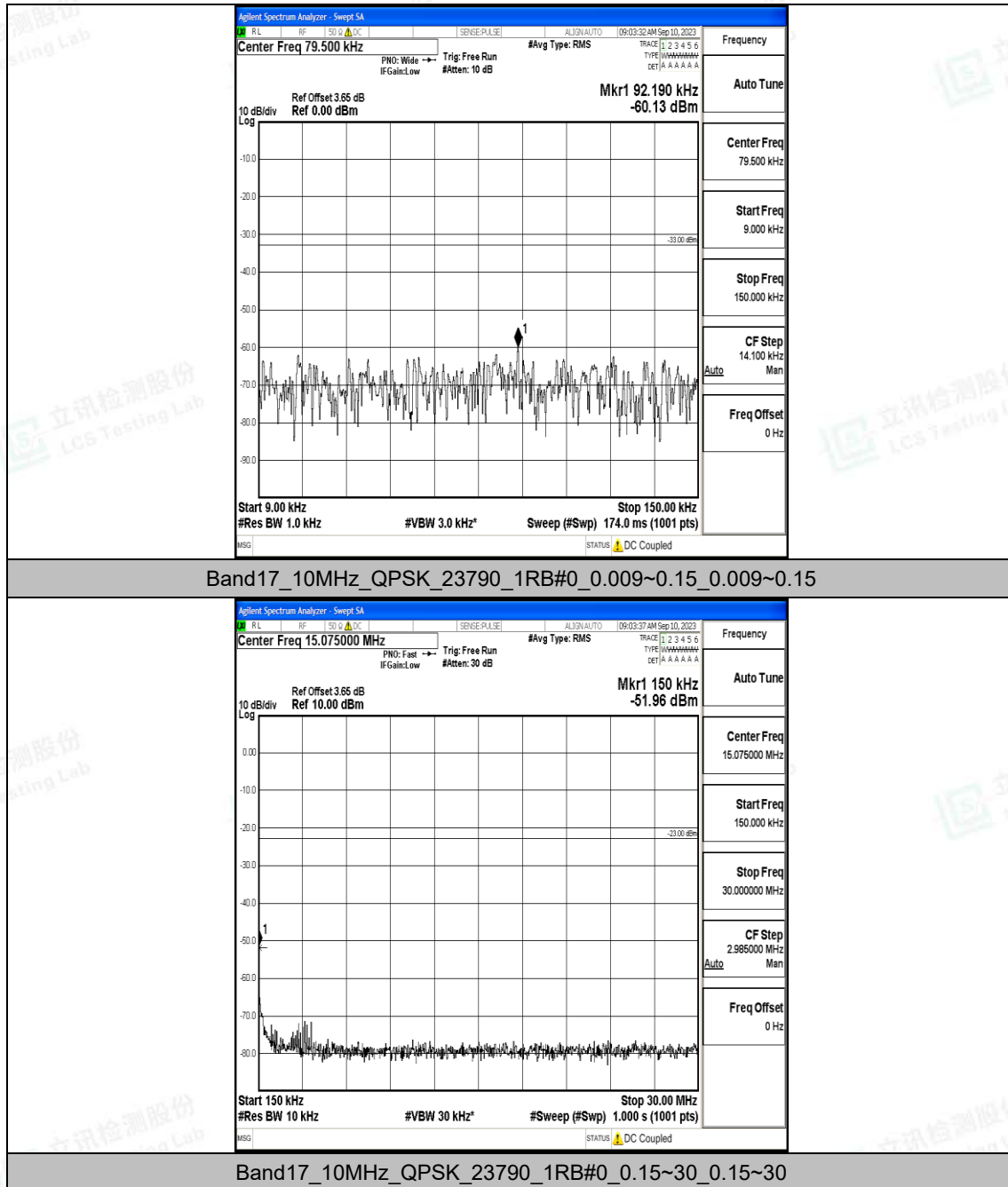
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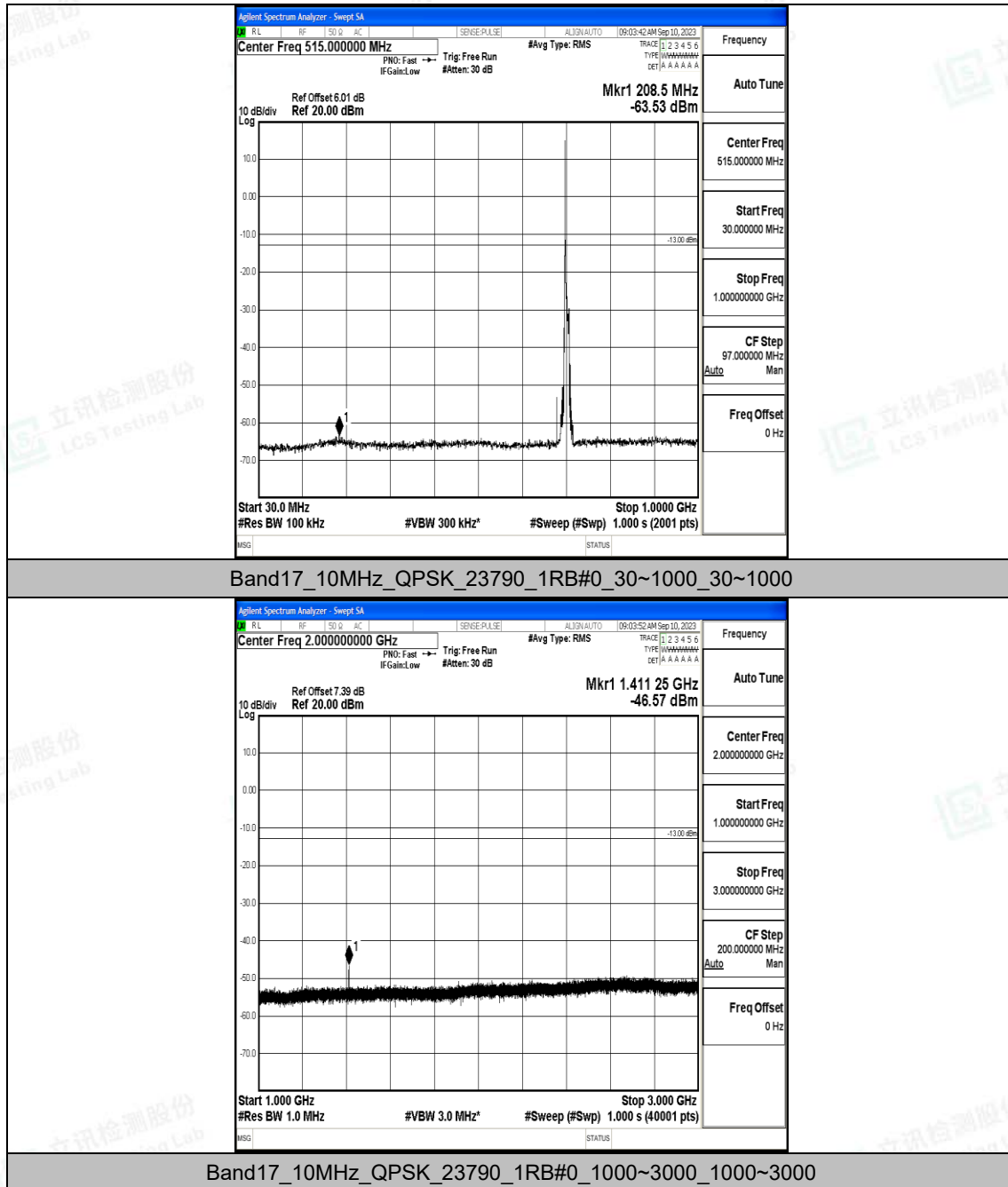
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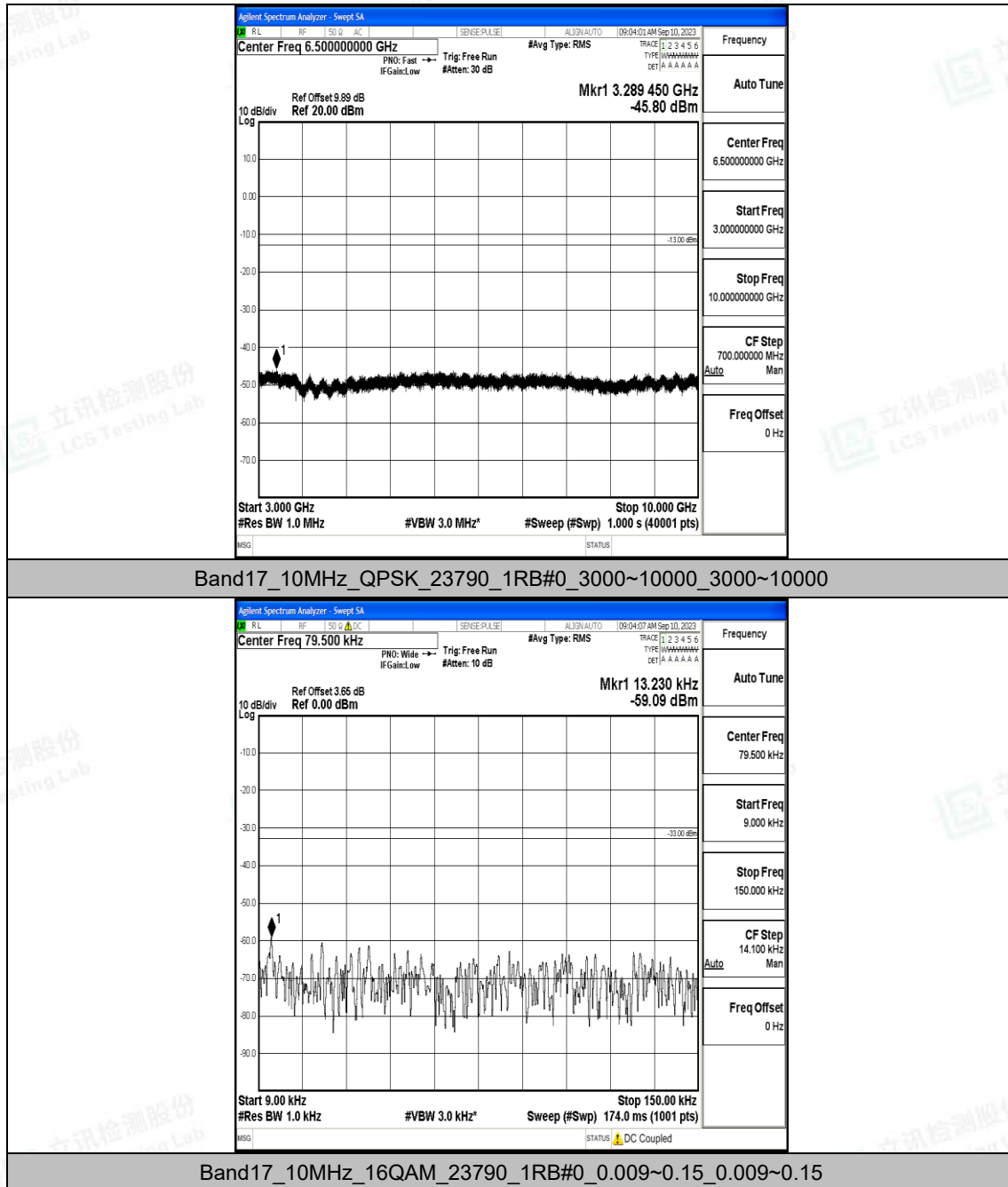
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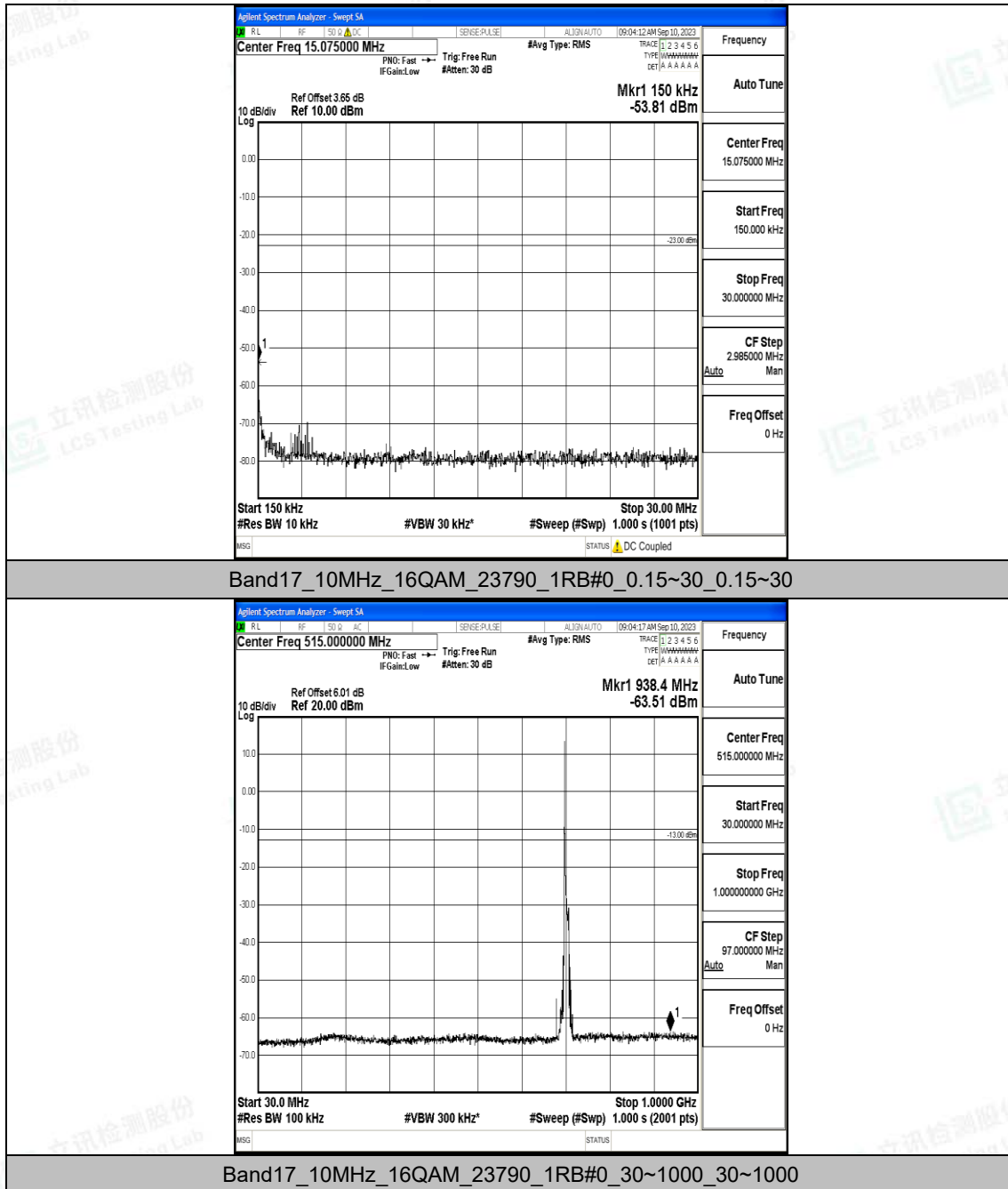


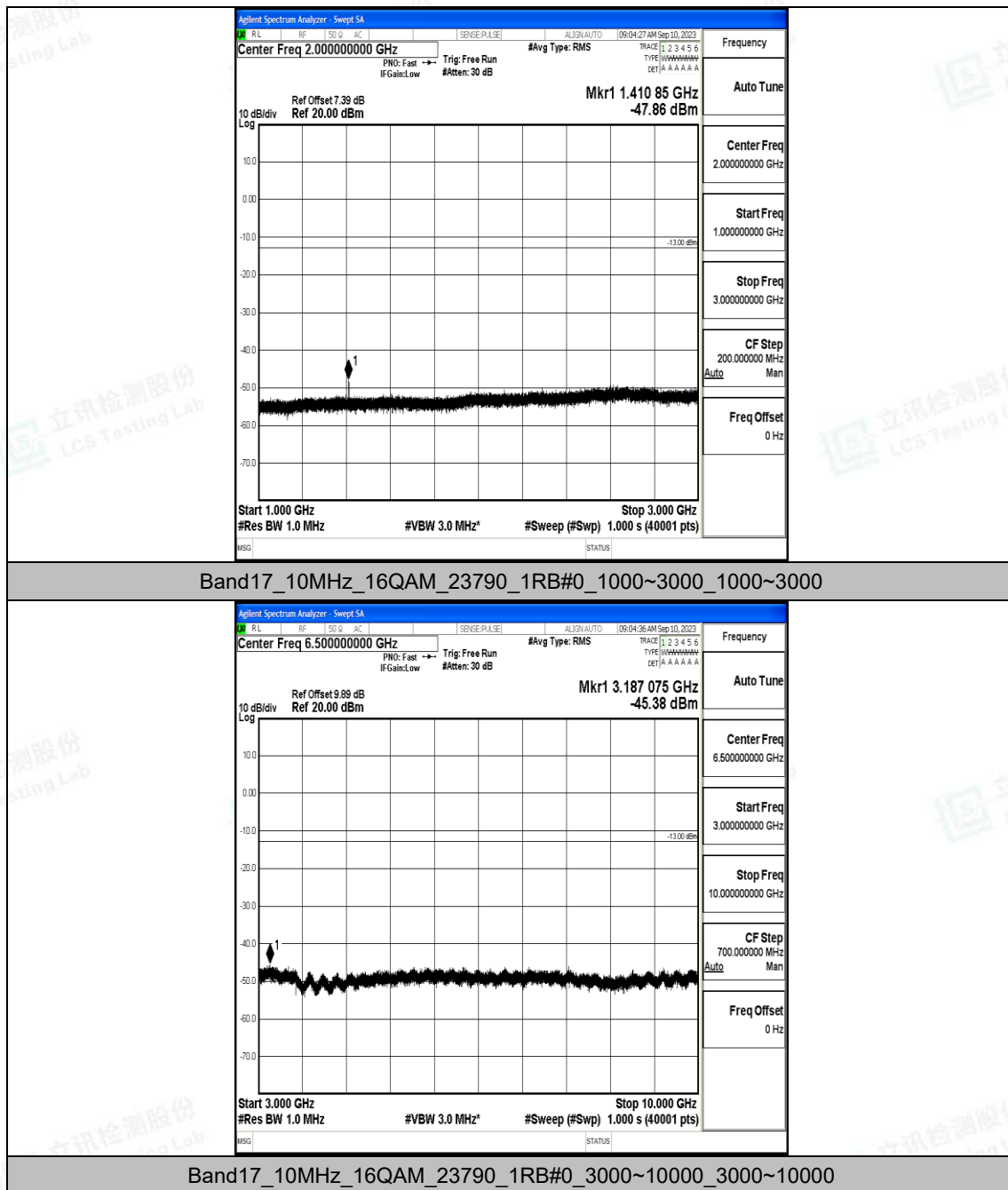
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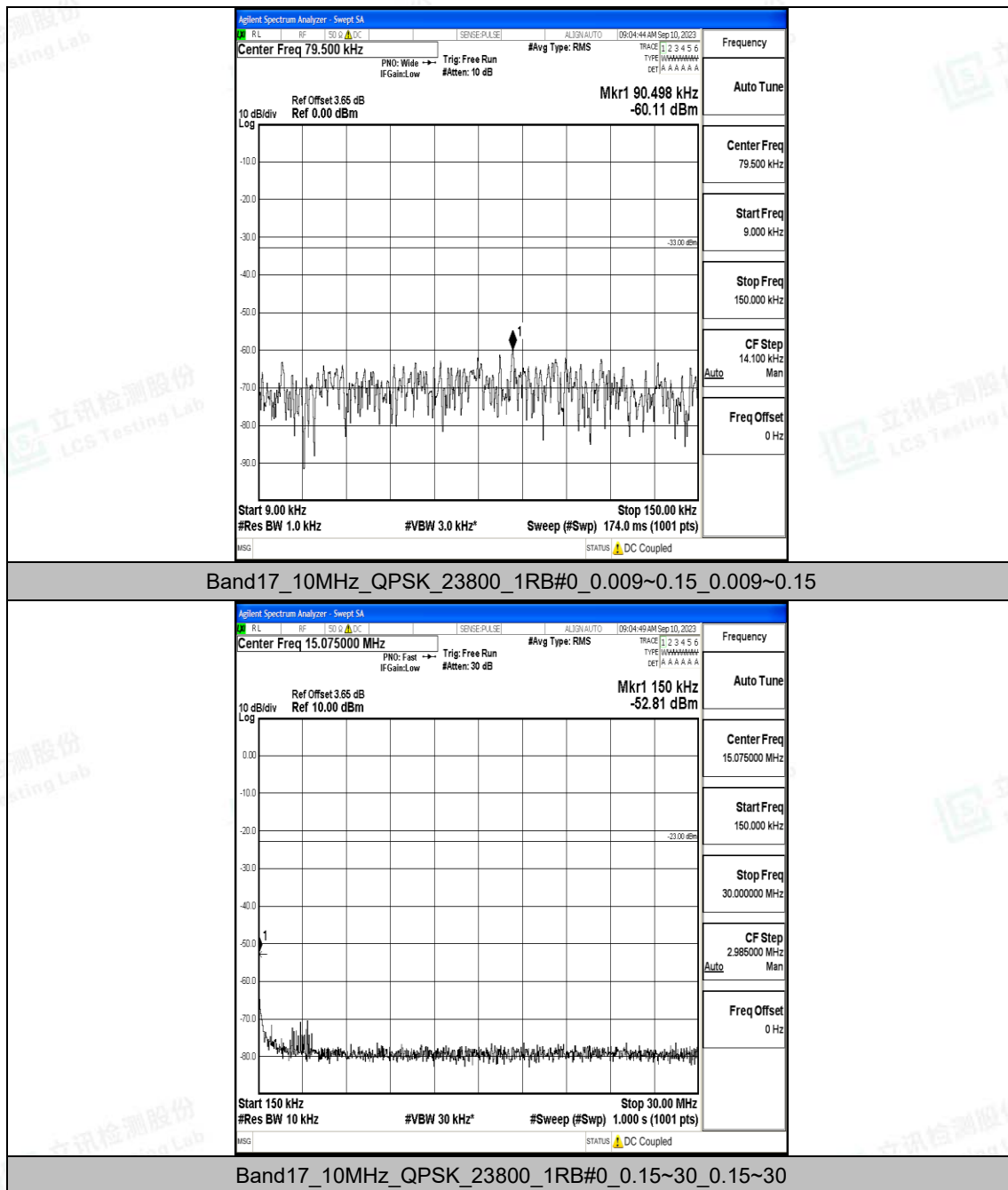
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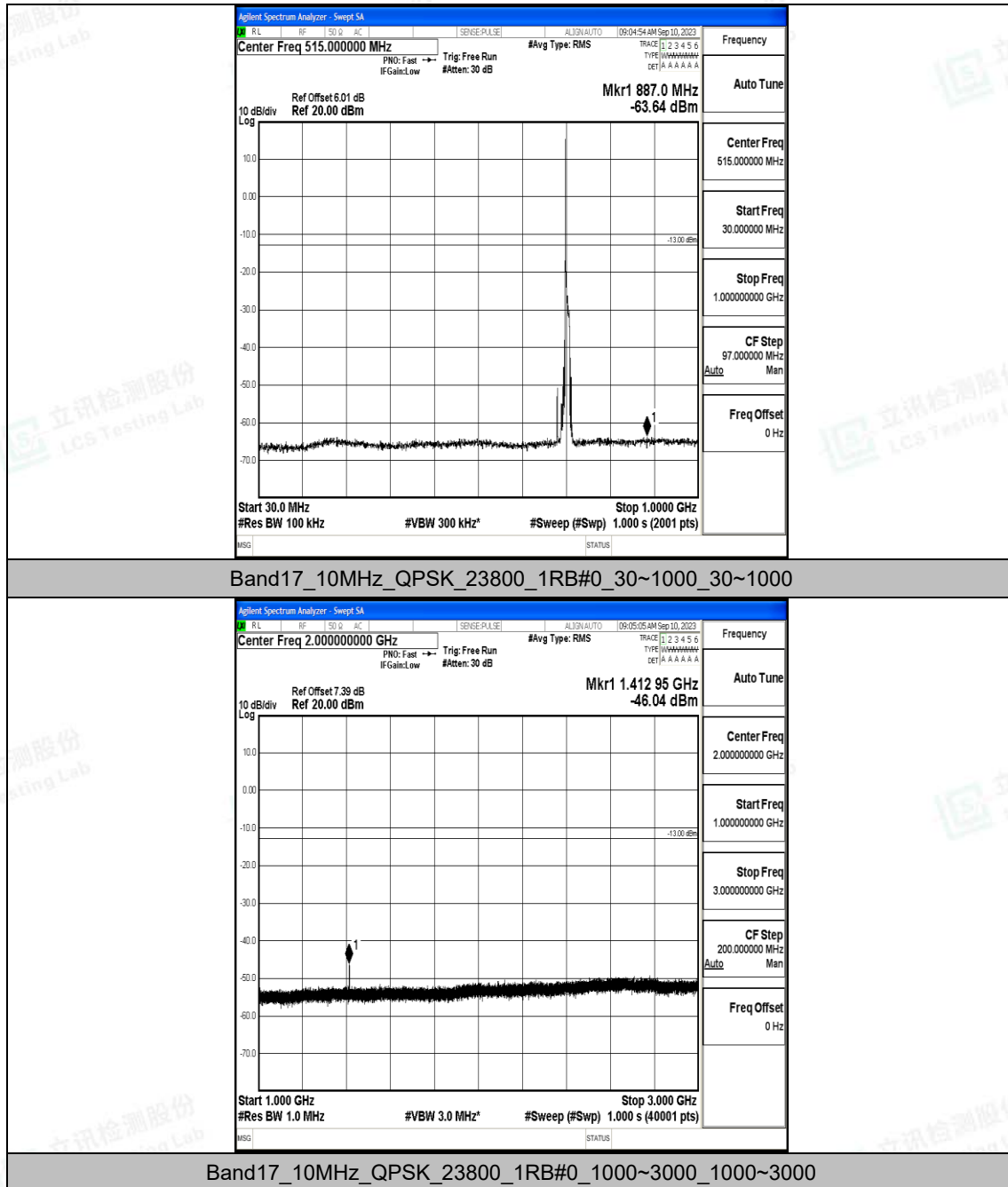
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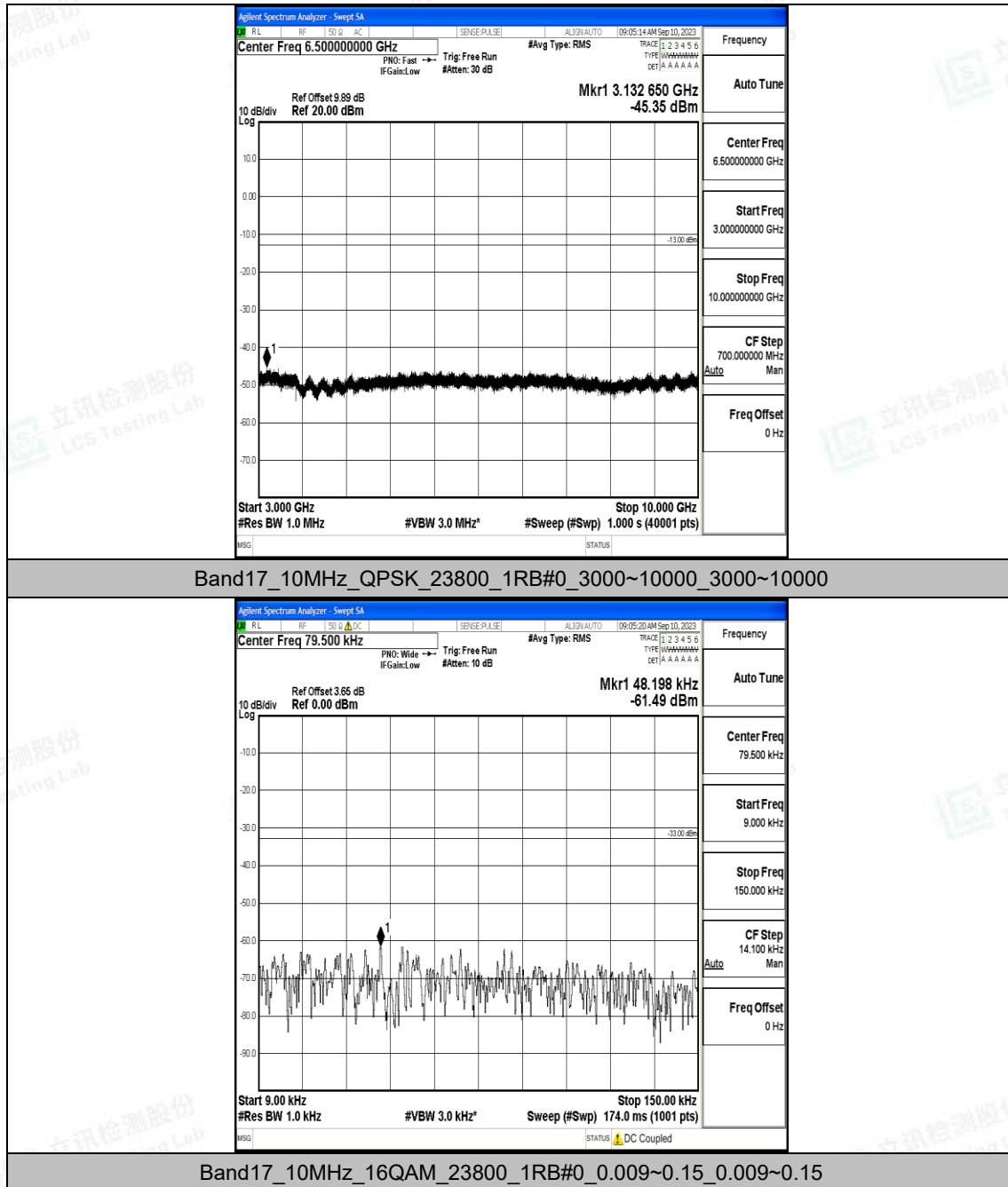


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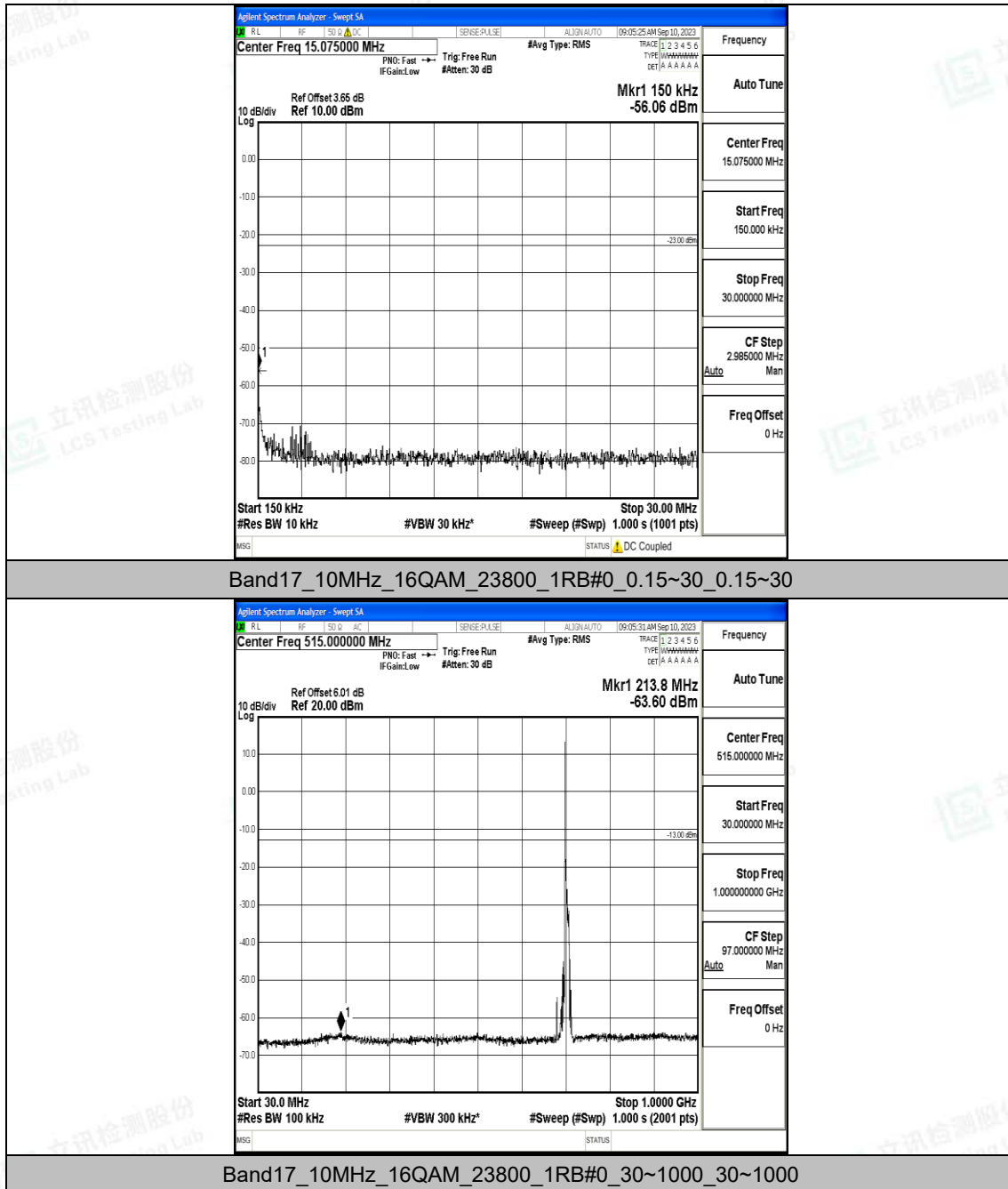


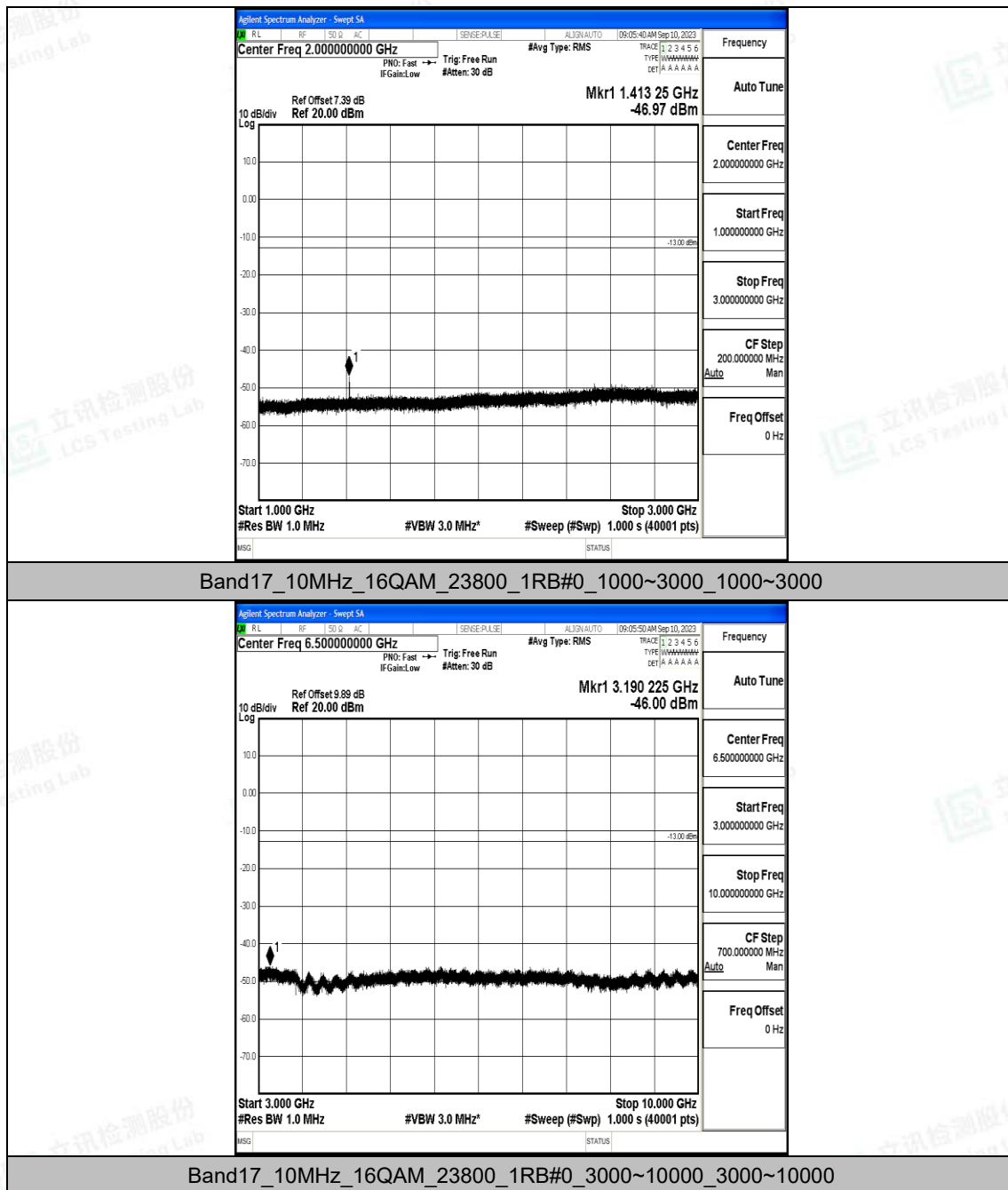
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