



Appendix H: Test Data for E-UTRA Band 13

Product Name: Smart phone

Test Model: JK68

Environmental Conditions

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



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H.1 Conducted Output Power Data

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band13	5MHz	QPSK	23205	1RB#0	23.98	PASS
Band13	5MHz	16QAM	23205	1RB#0	22.83	PASS
Band13	5MHz	QPSK	23205	1RB#12	24.06	PASS
Band13	5MHz	16QAM	23205	1RB#12	22.94	PASS
Band13	5MHz	QPSK	23205	1RB#24	24.11	PASS
Band13	5MHz	16QAM	23205	1RB#24	23.00	PASS
Band13	5MHz	QPSK	23205	12RB#0	22.97	PASS
Band13	5MHz	16QAM	23205	12RB#0	22.00	PASS
Band13	5MHz	QPSK	23205	12RB#6	22.97	PASS
Band13	5MHz	16QAM	23205	12RB#6	21.98	PASS
Band13	5MHz	QPSK	23205	12RB#13	23.04	PASS
Band13	5MHz	16QAM	23205	12RB#13	22.06	PASS
Band13	5MHz	QPSK	23205	25RB#0	23.04	PASS
Band13	5MHz	16QAM	23205	25RB#0	22.07	PASS
Band13	5MHz	QPSK	23230	1RB#0	24.21	PASS
Band13	5MHz	16QAM	23230	1RB#0	23.02	PASS
Band13	5MHz	QPSK	23230	1RB#12	24.17	PASS
Band13	5MHz	16QAM	23230	1RB#12	22.97	PASS
Band13	5MHz	QPSK	23230	1RB#24	24.24	PASS
Band13	5MHz	16QAM	23230	1RB#24	23.06	PASS
Band13	5MHz	QPSK	23230	12RB#0	23.05	PASS
Band13	5MHz	16QAM	23230	12RB#0	22.06	PASS
Band13	5MHz	QPSK	23230	12RB#6	23.05	PASS
Band13	5MHz	16QAM	23230	12RB#6	22.06	PASS
Band13	5MHz	QPSK	23230	12RB#13	23.04	PASS
Band13	5MHz	16QAM	23230	12RB#13	22.02	PASS
Band13	5MHz	QPSK	23230	25RB#0	23.07	PASS
Band13	5MHz	16QAM	23230	25RB#0	22.07	PASS
Band13	5MHz	QPSK	23255	1RB#0	24.08	PASS
Band13	5MHz	16QAM	23255	1RB#0	23.10	PASS
Band13	5MHz	QPSK	23255	1RB#12	24.15	PASS
Band13	5MHz	16QAM	23255	1RB#12	23.17	PASS
Band13	5MHz	QPSK	23255	1RB#24	24.09	PASS
Band13	5MHz	16QAM	23255	1RB#24	23.14	PASS
Band13	5MHz	QPSK	23255	12RB#0	23.09	PASS
Band13	5MHz	16QAM	23255	12RB#0	22.17	PASS



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Band13	5MHz	QPSK	23255	12RB#6	23.09	PASS
Band13	5MHz	16QAM	23255	12RB#6	22.17	PASS
Band13	5MHz	QPSK	23255	12RB#13	23.08	PASS
Band13	5MHz	16QAM	23255	12RB#13	22.17	PASS
Band13	5MHz	QPSK	23255	25RB#0	23.13	PASS
Band13	5MHz	16QAM	23255	25RB#0	22.07	PASS
Band13	10MHz	QPSK	23230	1RB#0	23.96	PASS
Band13	10MHz	16QAM	23230	1RB#0	23.01	PASS
Band13	10MHz	QPSK	23230	1RB#24	23.96	PASS
Band13	10MHz	16QAM	23230	1RB#24	22.98	PASS
Band13	10MHz	QPSK	23230	1RB#49	24.15	PASS
Band13	10MHz	16QAM	23230	1RB#49	23.11	PASS
Band13	10MHz	QPSK	23230	25RB#0	23.01	PASS
Band13	10MHz	16QAM	23230	25RB#0	21.98	PASS
Band13	10MHz	QPSK	23230	25RB#12	23.01	PASS
Band13	10MHz	16QAM	23230	25RB#12	21.99	PASS
Band13	10MHz	QPSK	23230	25RB#25	23.06	PASS
Band13	10MHz	16QAM	23230	25RB#25	22.01	PASS
Band13	10MHz	QPSK	23230	50RB#0	23.04	PASS
Band13	10MHz	16QAM	23230	50RB#0	22.00	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
Band13	5MHz	QPSK	23205	1RB#0	3.81	13	PASS
Band13	5MHz	16QAM	23205	1RB#0	4.61	13	PASS
Band13	5MHz	QPSK	23205	25RB#0	5.24	13	PASS
Band13	5MHz	16QAM	23205	25RB#0	5.93	13	PASS
Band13	5MHz	QPSK	23230	1RB#0	3.89	13	PASS
Band13	5MHz	16QAM	23230	1RB#0	4.73	13	PASS
Band13	5MHz	QPSK	23230	25RB#0	5.29	13	PASS
Band13	5MHz	16QAM	23230	25RB#0	5.97	13	PASS
Band13	5MHz	QPSK	23255	1RB#0	4.24	13	PASS
Band13	5MHz	16QAM	23255	1RB#0	5.01	13	PASS
Band13	5MHz	QPSK	23255	25RB#0	5.29	13	PASS
Band13	5MHz	16QAM	23255	25RB#0	5.99	13	PASS
Band13	10MHz	QPSK	23230	1RB#0	3.81	13	PASS
Band13	10MHz	16QAM	23230	1RB#0	4.71	13	PASS
Band13	10MHz	QPSK	23230	50RB#0	5.22	13	PASS
Band13	10MHz	16QAM	23230	50RB#0	5.95	13	PASS



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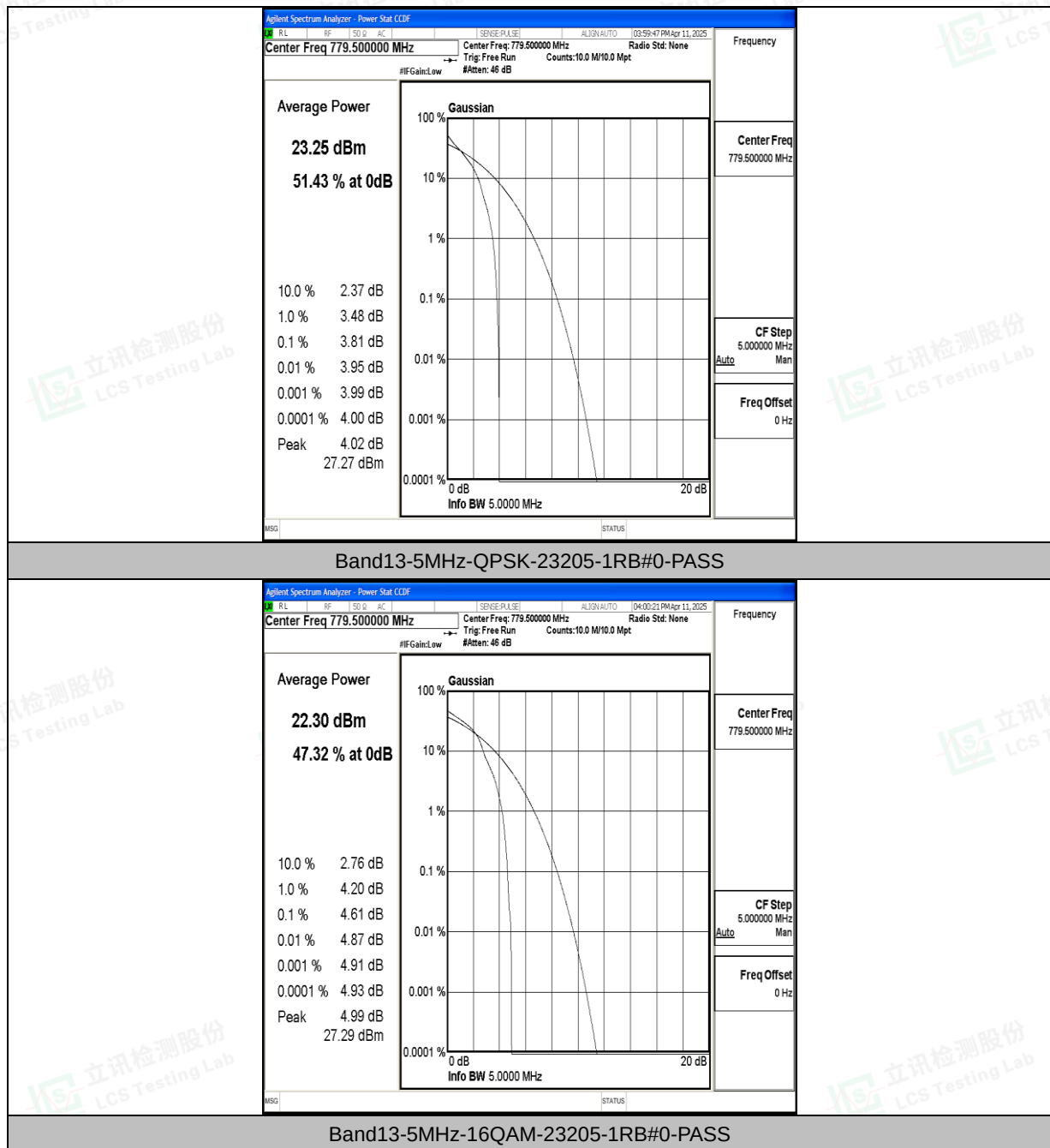
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Test Graphs

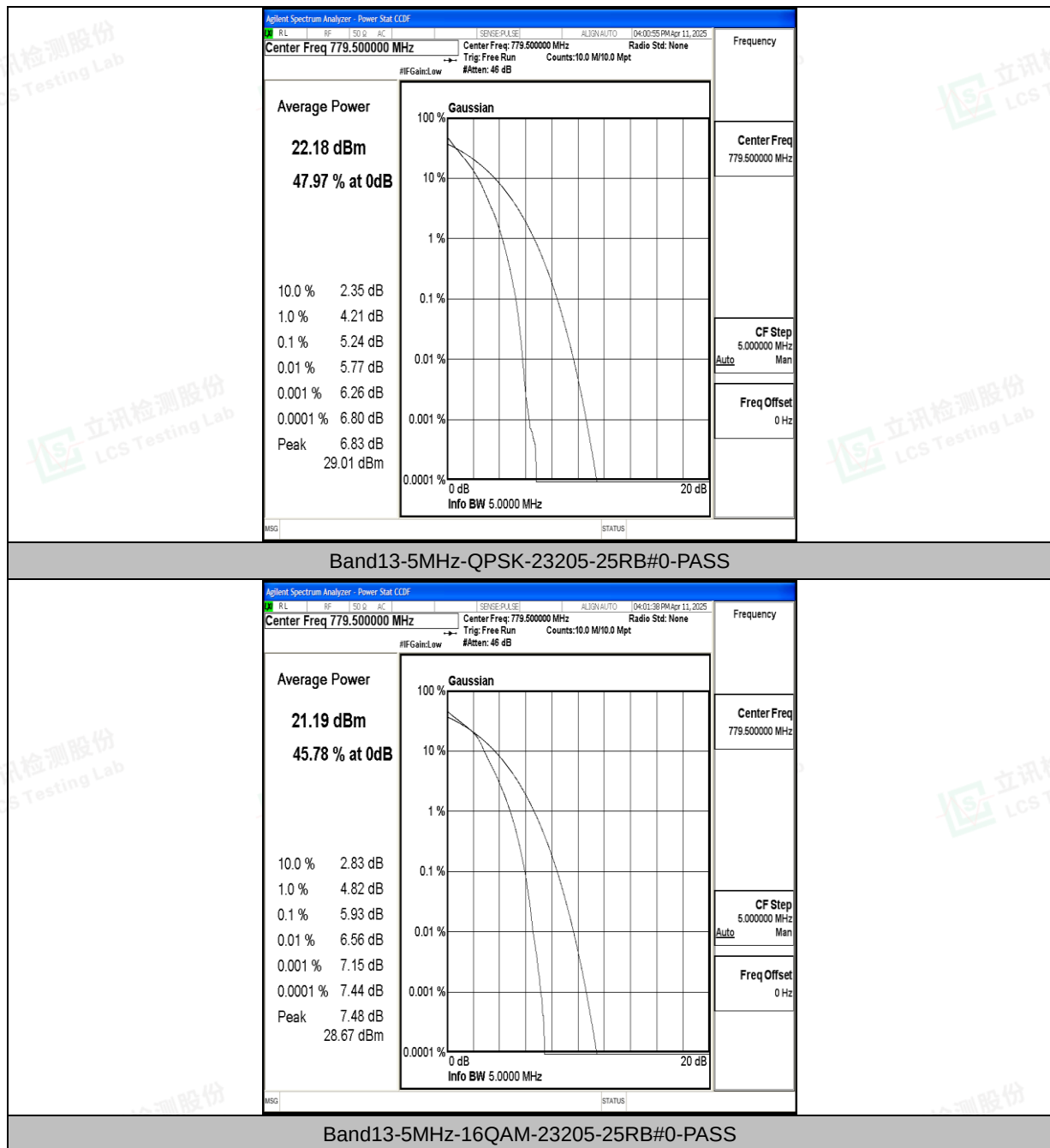


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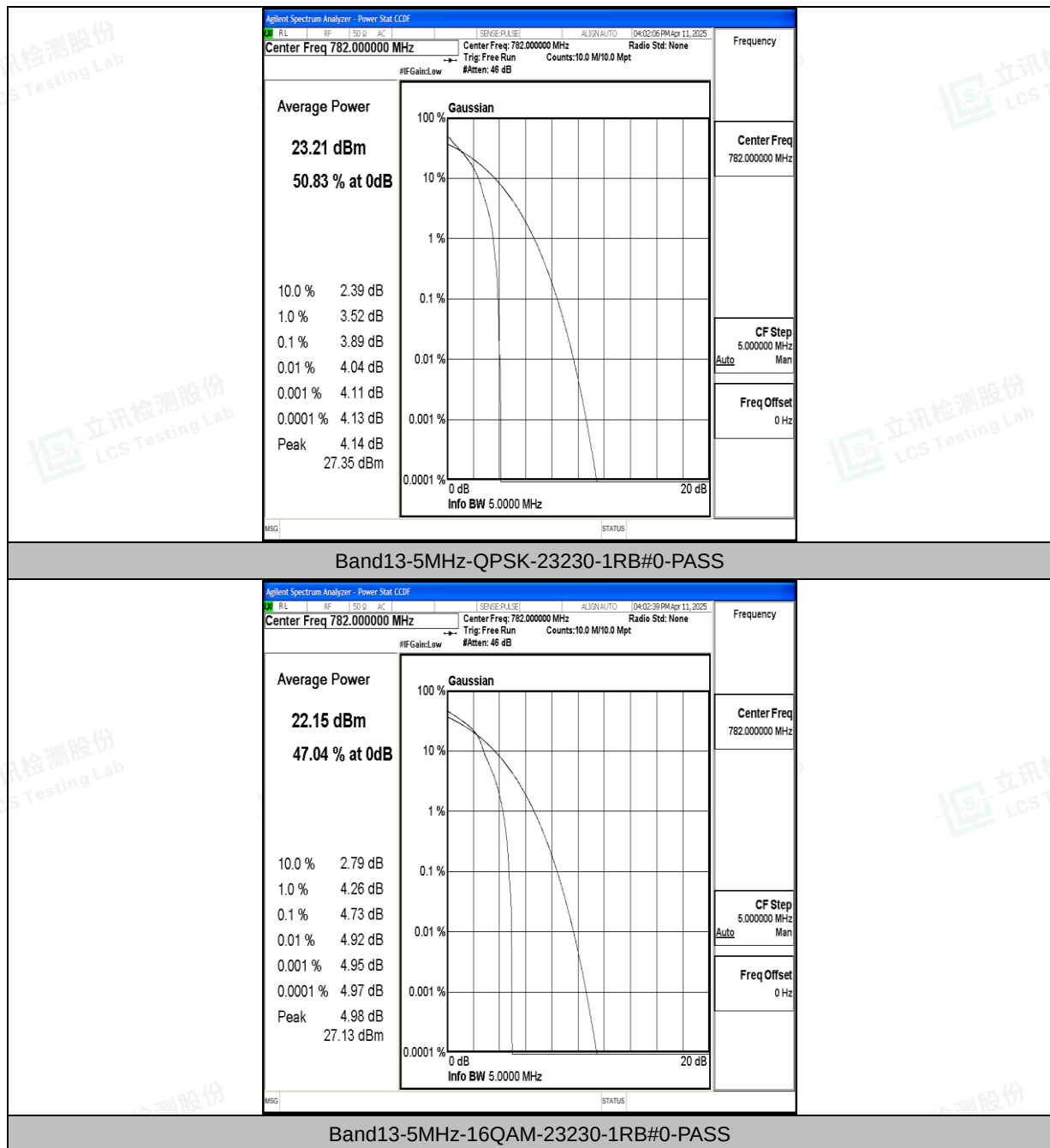


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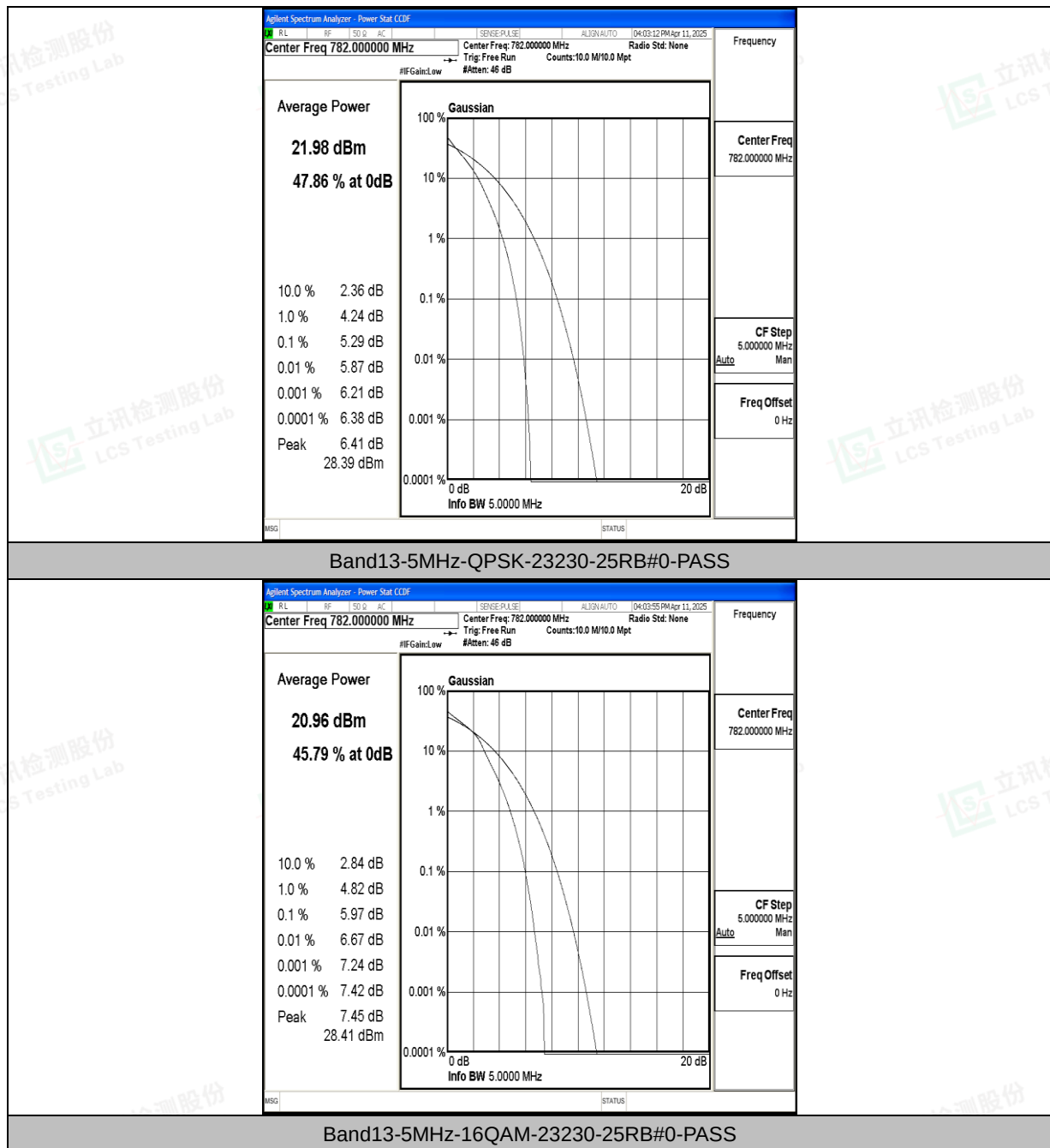


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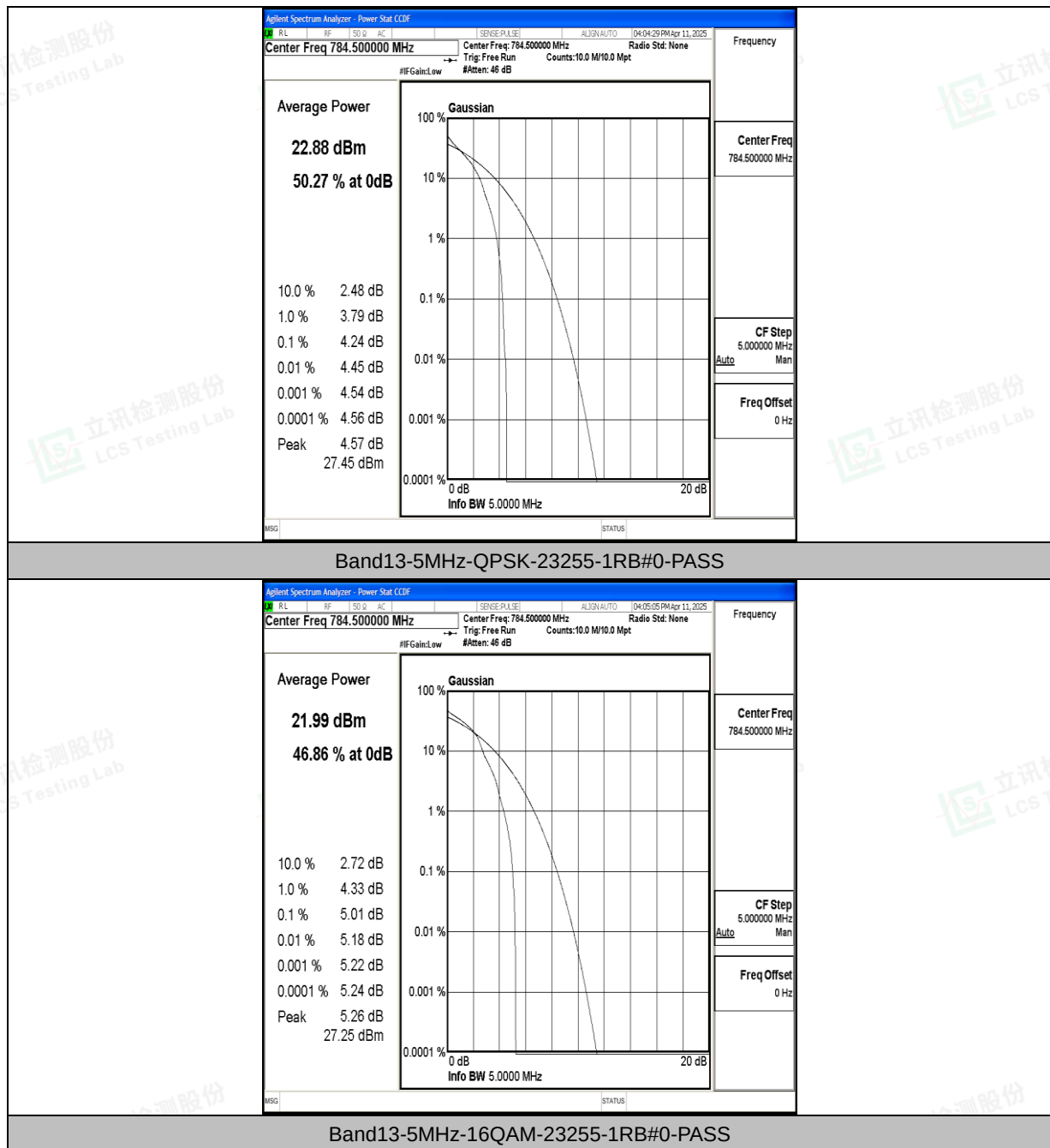


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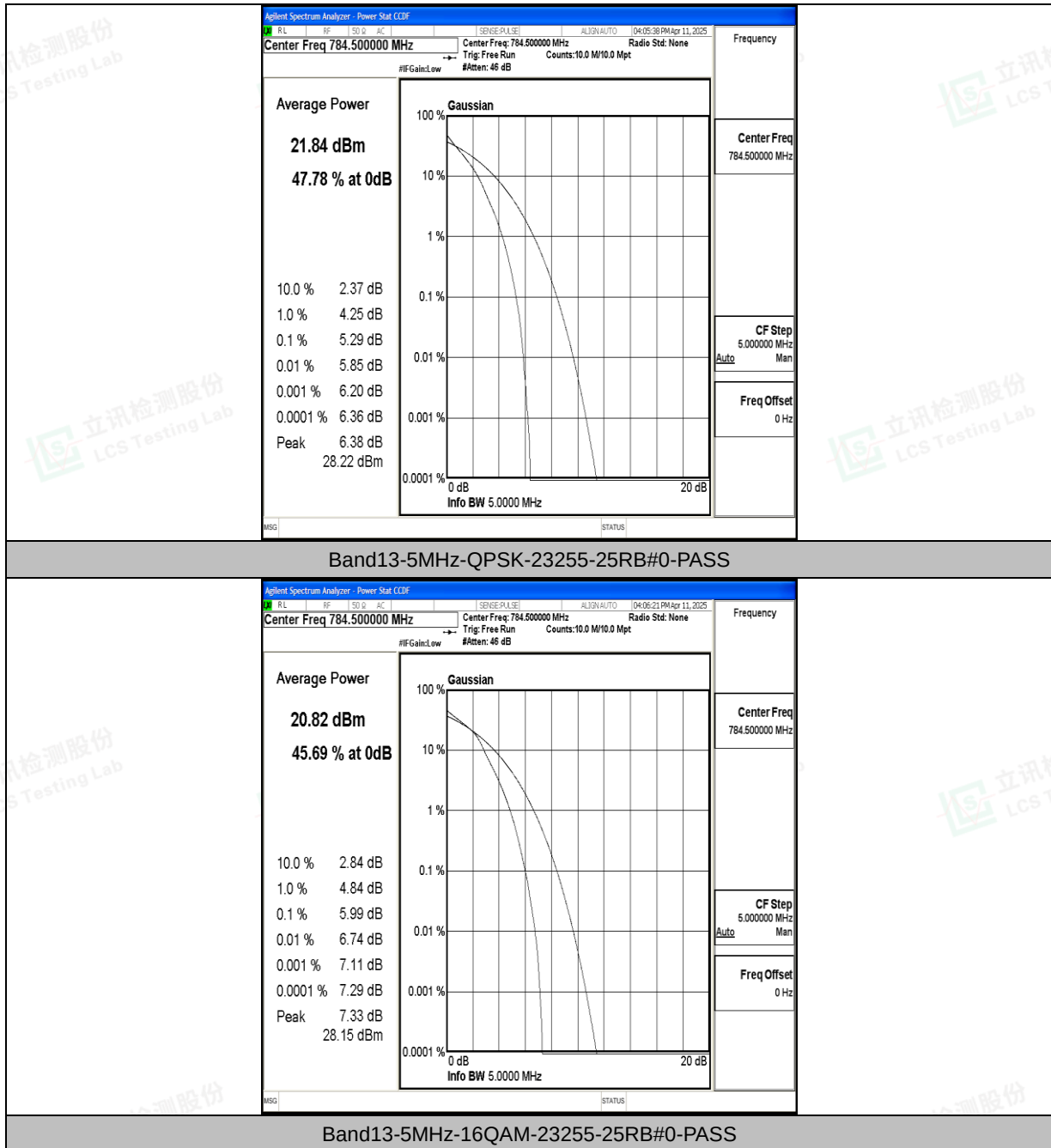


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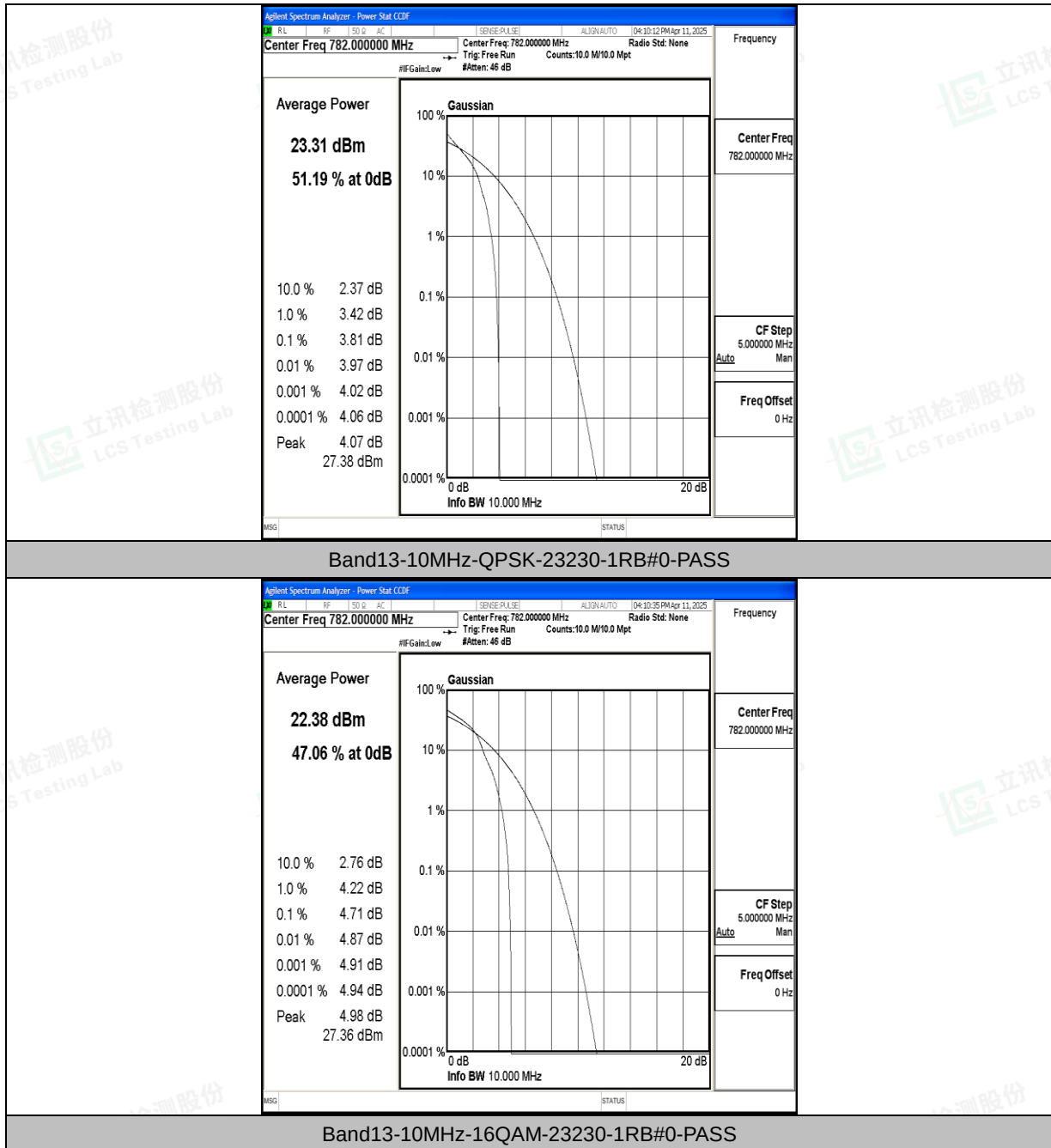


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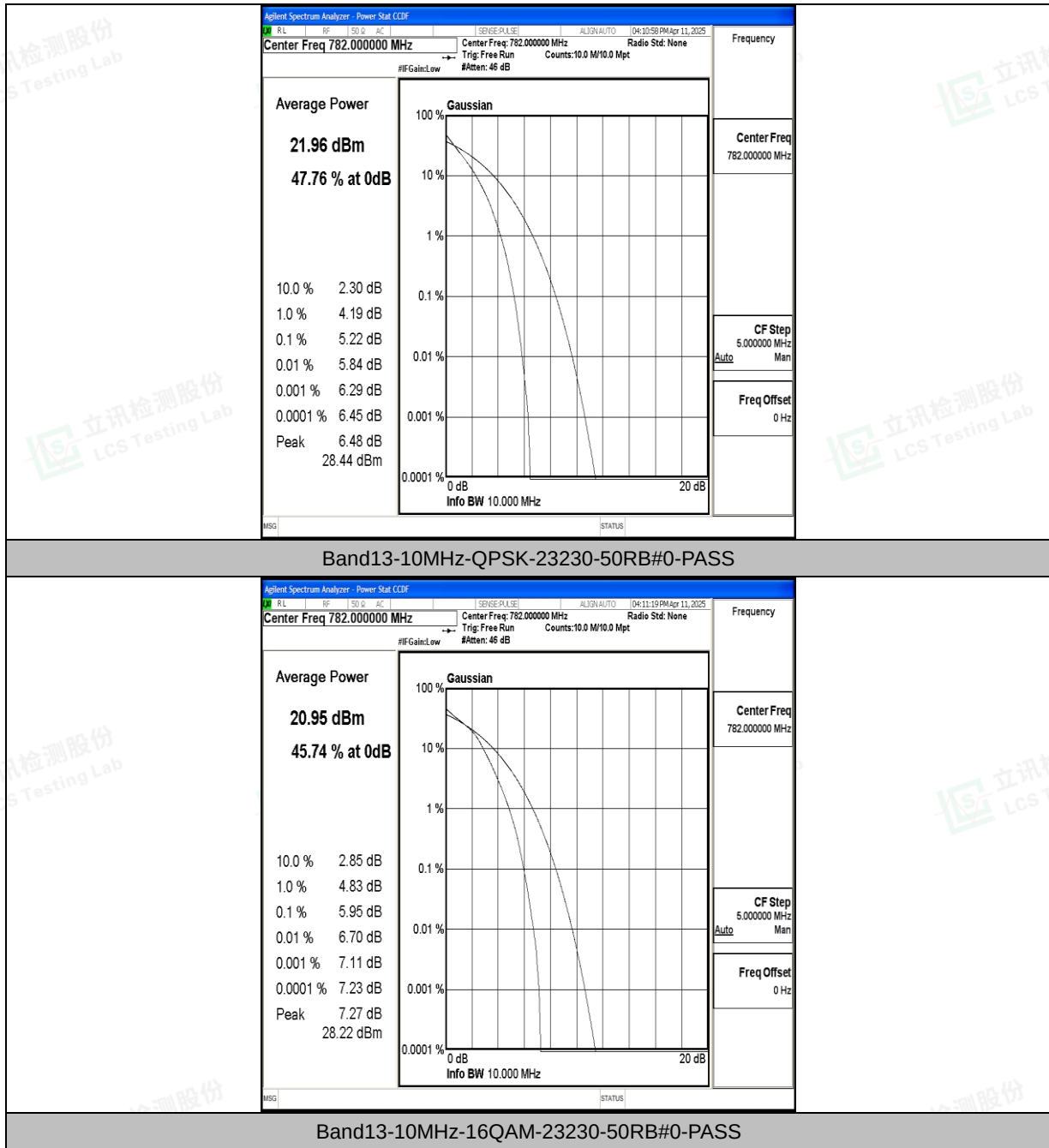


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H.3 26dB Bandwidth and Occupied Bandwidth

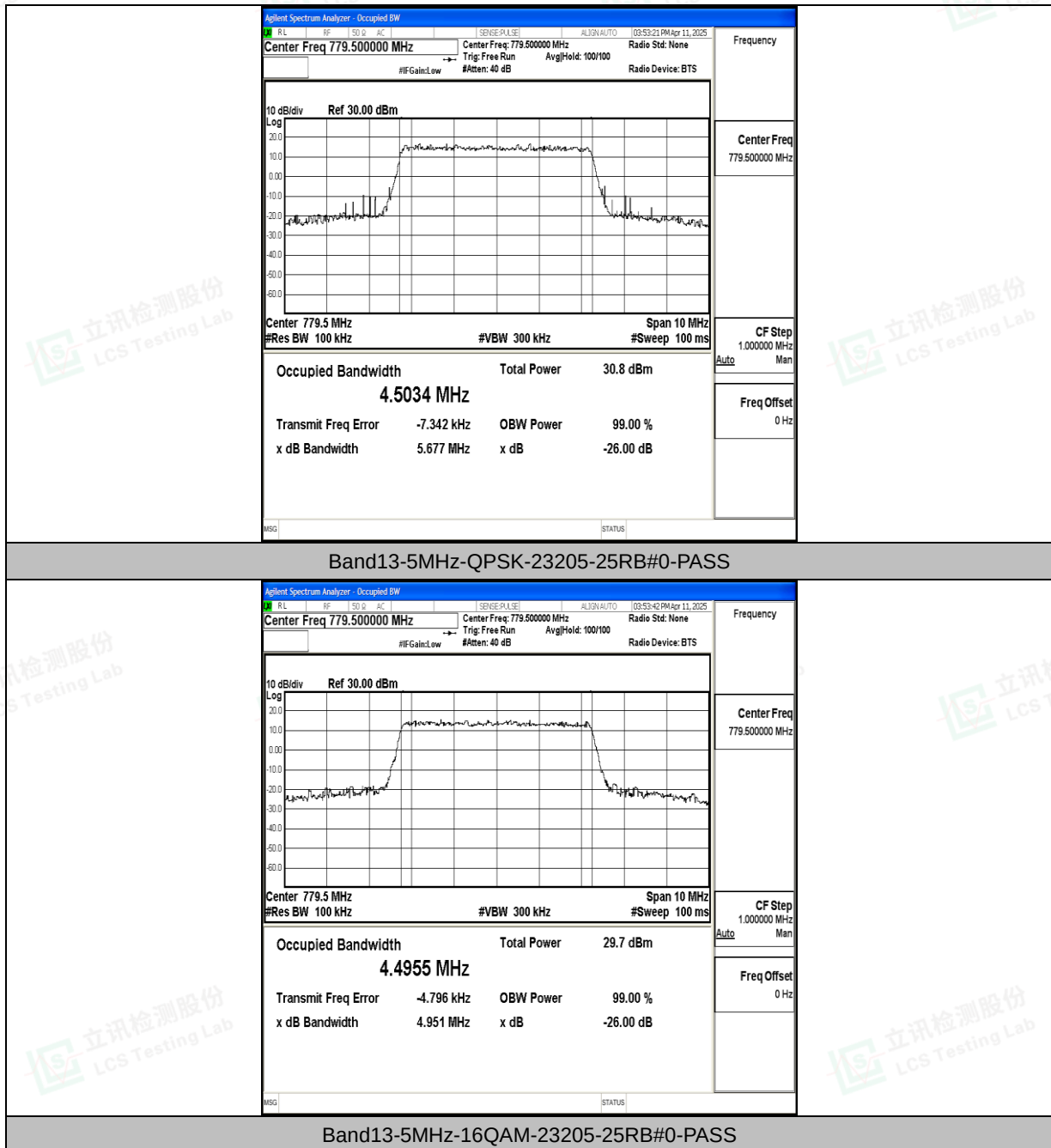
Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band13	5MHz	QPSK	23205	25RB#0	4.5034	5.677	PASS
Band13	5MHz	16QAM	23205	25RB#0	4.4955	4.951	PASS
Band13	5MHz	QPSK	23230	25RB#0	4.4985	5.172	PASS
Band13	5MHz	16QAM	23230	25RB#0	4.4993	5.478	PASS
Band13	5MHz	QPSK	23255	25RB#0	4.5089	4.983	PASS
Band13	5MHz	16QAM	23255	25RB#0	4.5179	5.151	PASS
Band13	10MHz	QPSK	23230	50RB#0	8.9843	9.855	PASS
Band13	10MHz	16QAM	23230	50RB#0	8.9517	9.749	PASS





Test Graphs

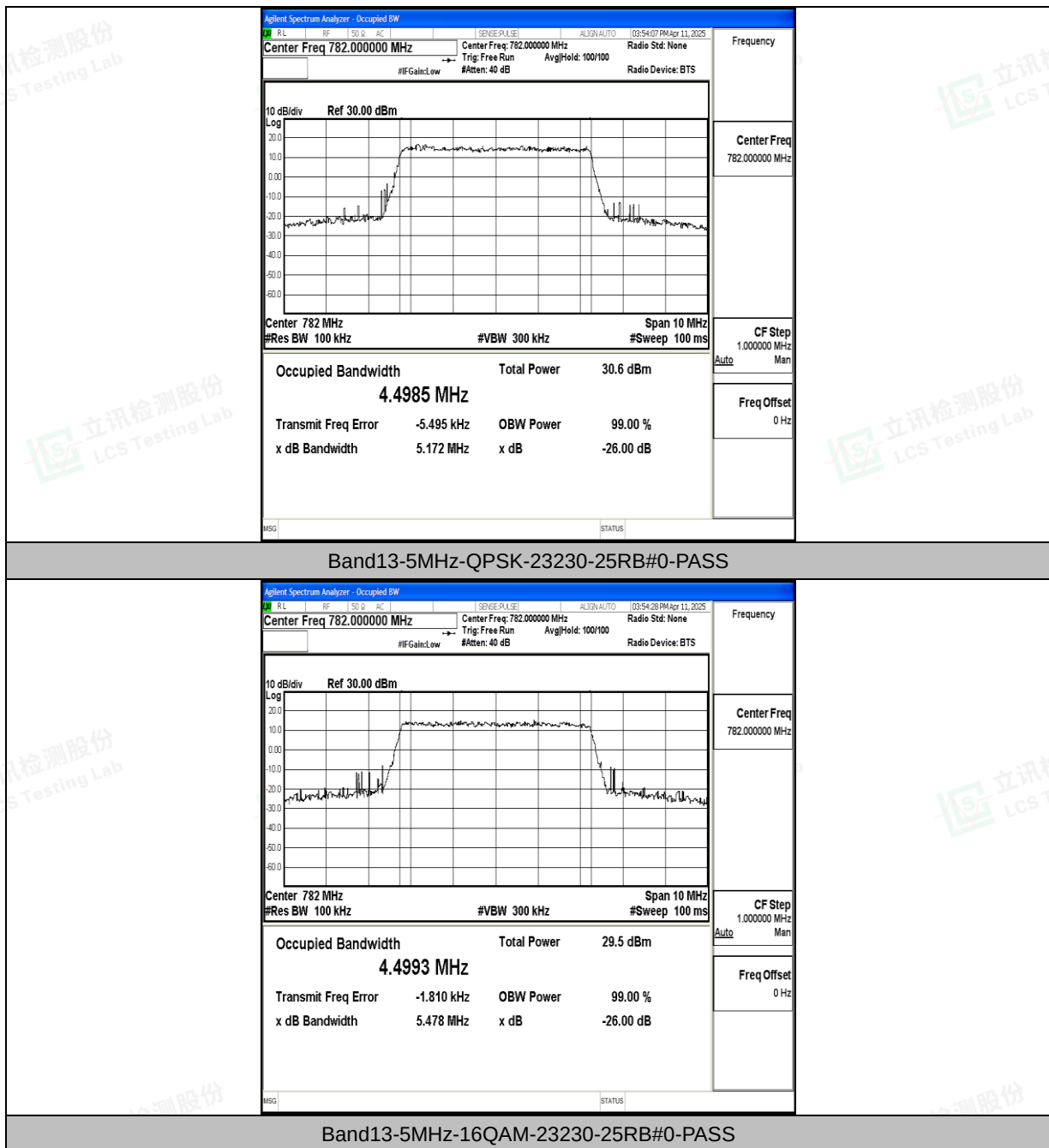


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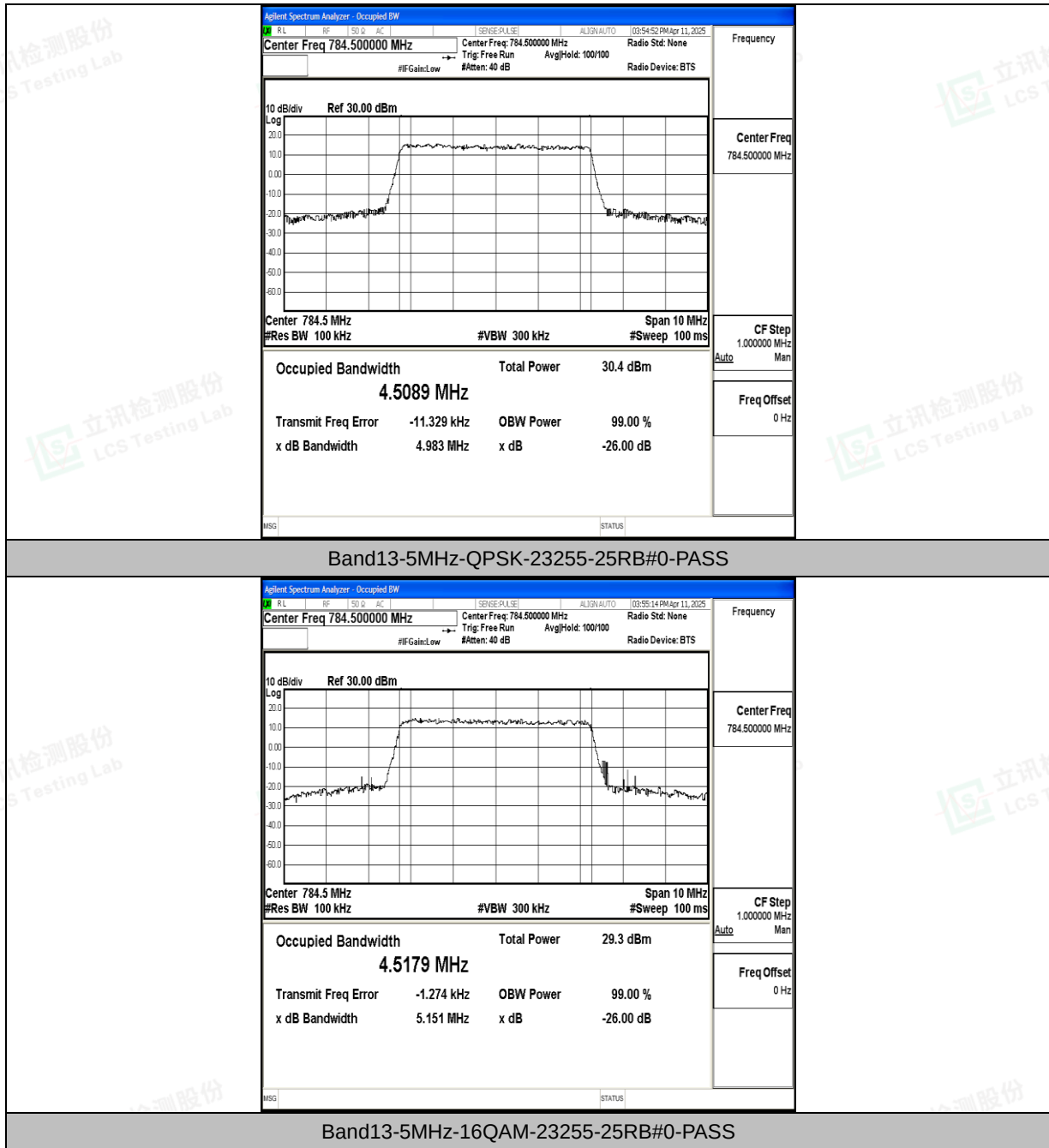


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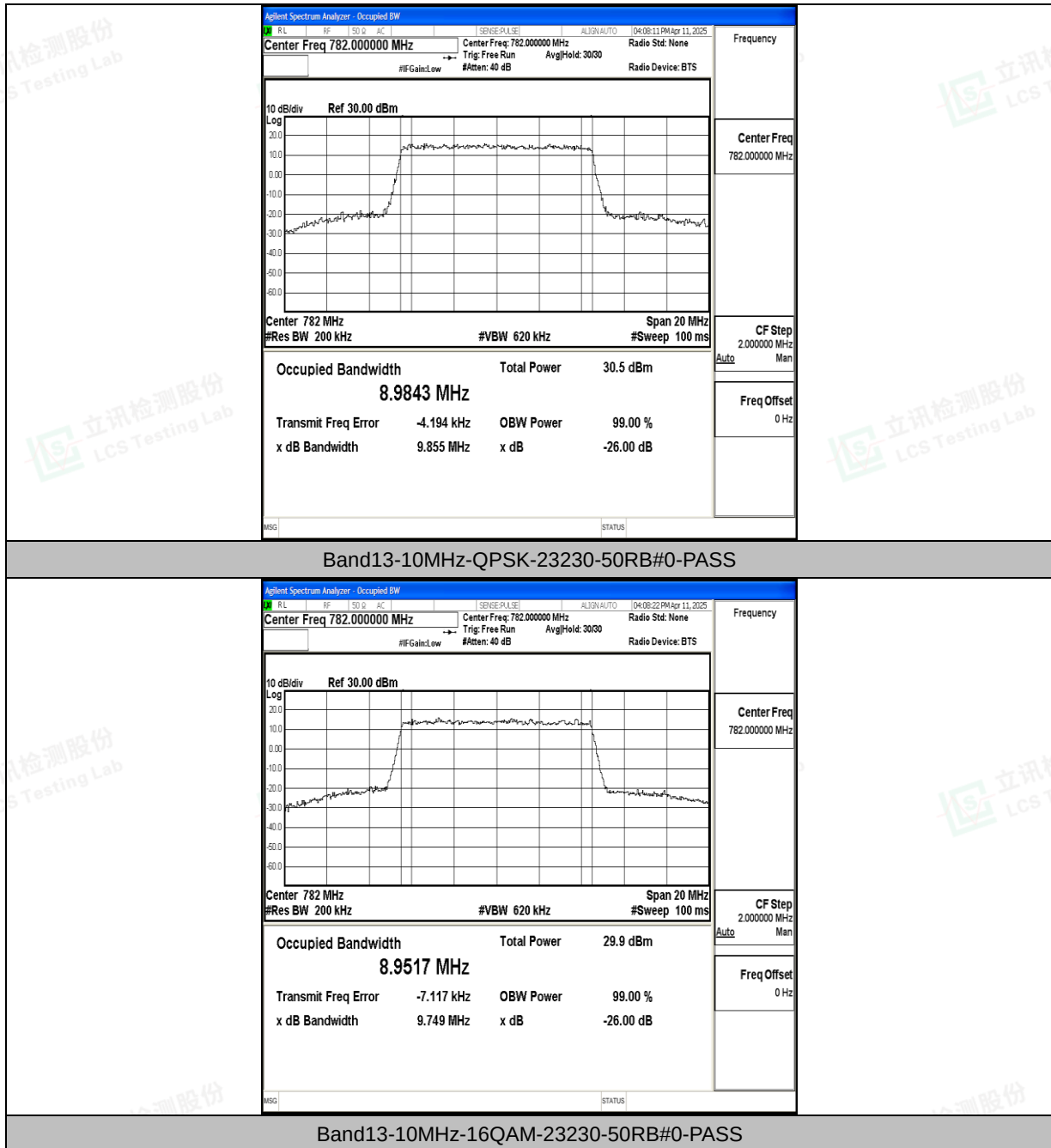


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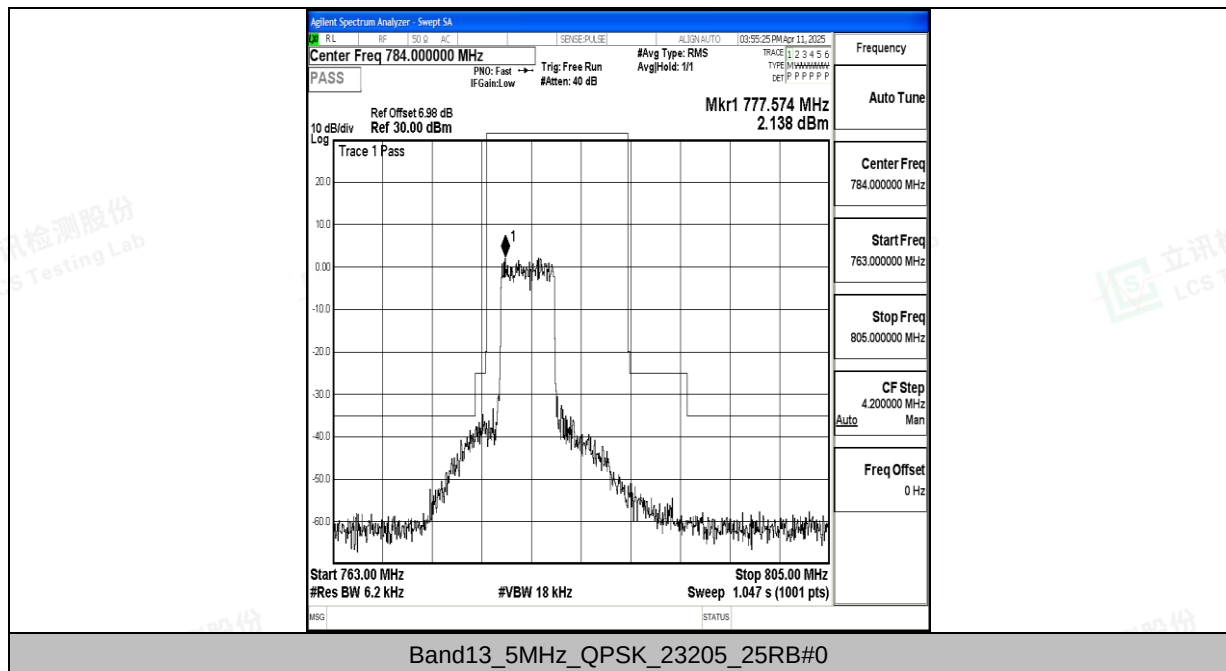


H.4 Band Edge

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Peak Frequency	Result(dBm)	Verdict
Band13	5MHz	QPSK	23205	25RB#0	774.63	-38.55	PASS
Band13	5MHz	16QAM	23205	25RB#0	774.72	-41.82	PASS
Band13	5MHz	QPSK	23255	25RB#0	789.21	-38.00	PASS
Band13	5MHz	16QAM	23255	25RB#0	788.58	-39.17	PASS
Band13	10MHz	QPSK	23230	50RB#0	774.76	-38.68	PASS
Band13	10MHz	16QAM	23230	50RB#0	774.42	-42.57	PASS

Test Graphs

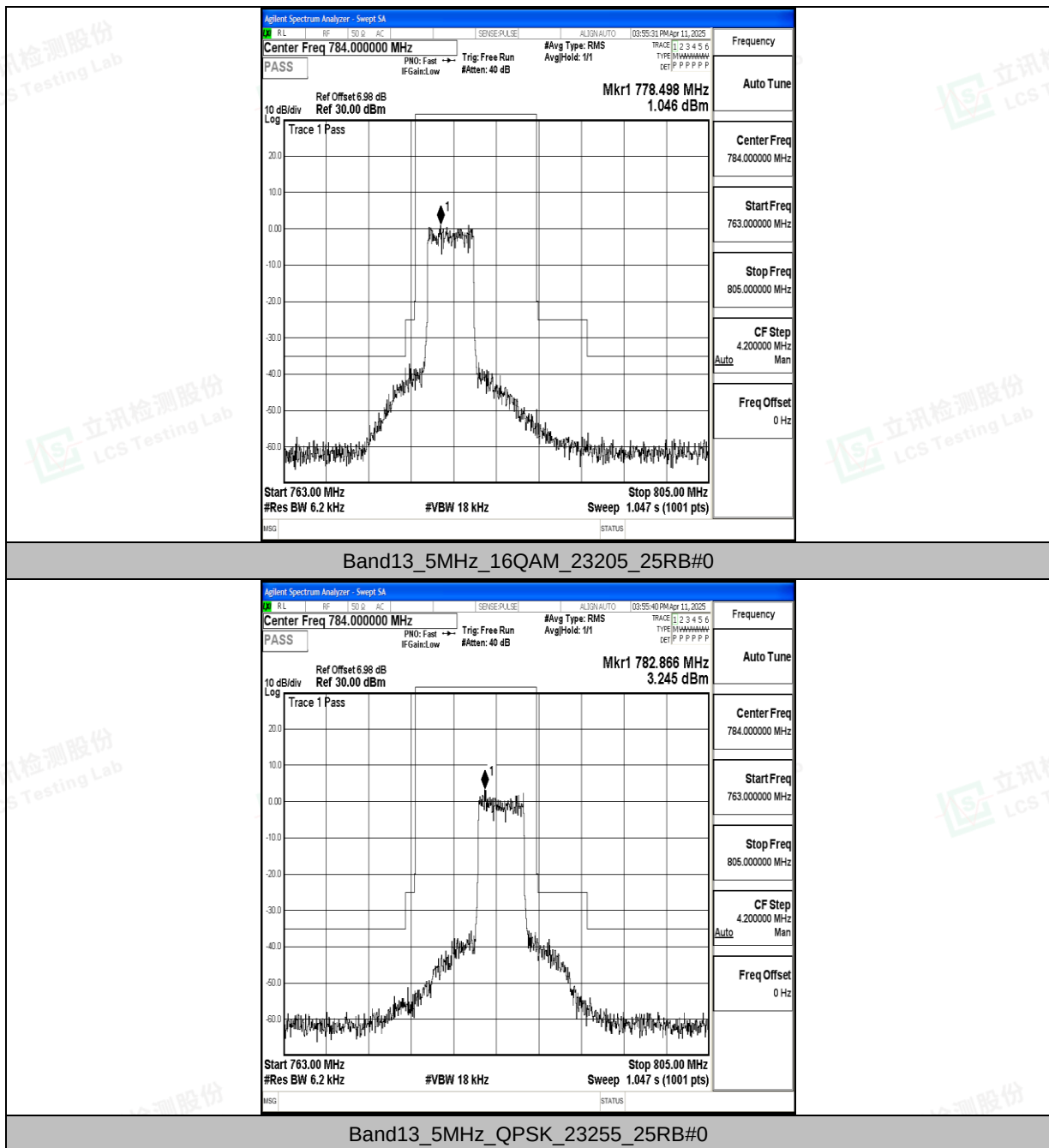


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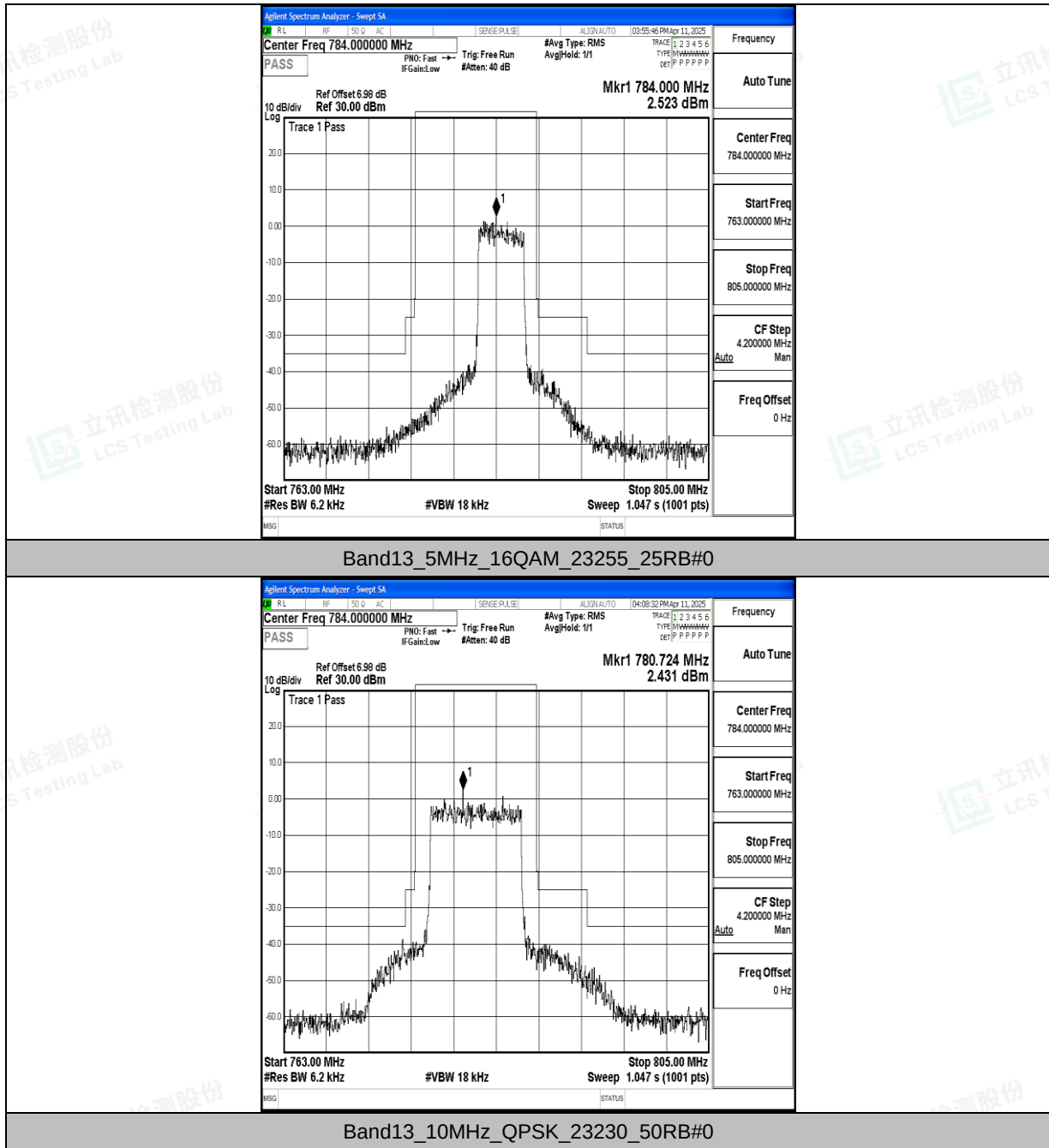


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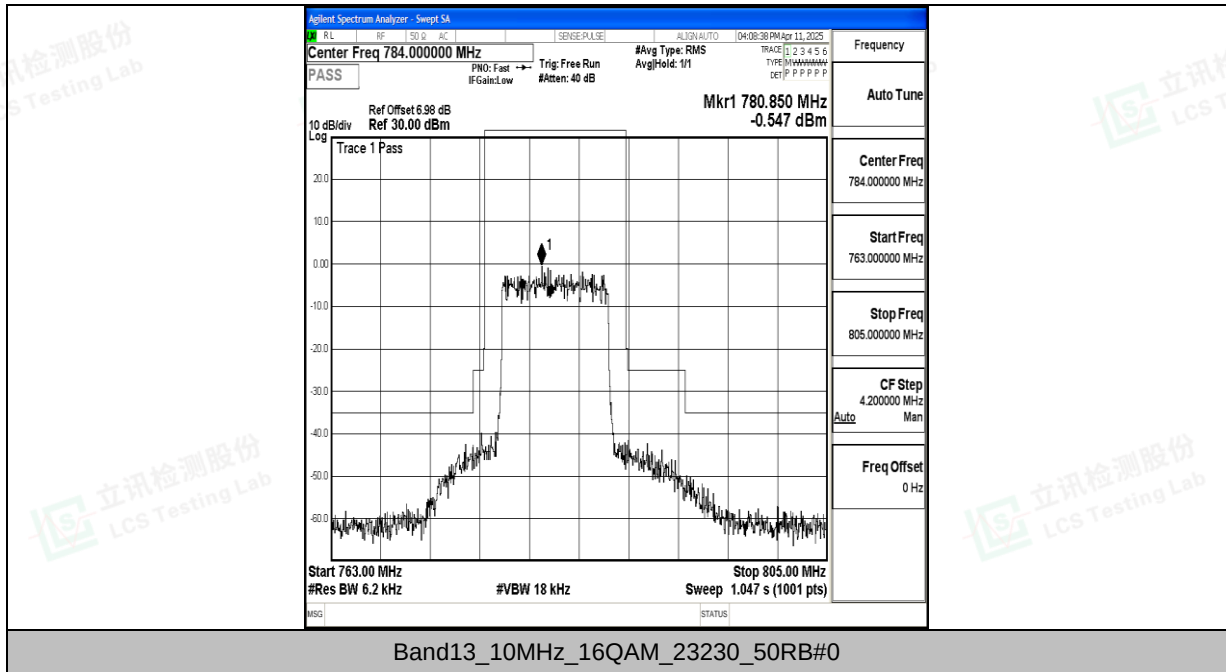


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H.5 Conducted Spurious Emission

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Frequency Range	Result (dBm)	Verdict
Band13	5MHz	QPSK	23205	1RB#0	0.009~0.15	-58.56	PASS
Band13	5MHz	QPSK	23205	1RB#0	0.15~30	-46.37	PASS
Band13	5MHz	QPSK	23205	1RB#0	30~1000	-52.98	PASS
Band13	5MHz	QPSK	23205	1RB#0	1000~3000	-37.93	PASS
Band13	5MHz	QPSK	23205	1RB#0	3000~10000	-35.13	PASS
Band13	5MHz	16QAM	23205	1RB#0	0.009~0.15	-59.40	PASS
Band13	5MHz	16QAM	23205	1RB#0	0.15~30	-46.22	PASS
Band13	5MHz	16QAM	23205	1RB#0	30~1000	-52.74	PASS
Band13	5MHz	16QAM	23205	1RB#0	1000~3000	-39.21	PASS
Band13	5MHz	16QAM	23205	1RB#0	3000~10000	-35.07	PASS
Band13	5MHz	QPSK	23230	1RB#0	0.009~0.15	-58.37	PASS
Band13	5MHz	QPSK	23230	1RB#0	0.15~30	-47.26	PASS
Band13	5MHz	QPSK	23230	1RB#0	30~1000	-52.53	PASS
Band13	5MHz	QPSK	23230	1RB#0	1000~3000	-38.89	PASS
Band13	5MHz	QPSK	23230	1RB#0	3000~10000	-35.82	PASS
Band13	5MHz	16QAM	23230	1RB#0	0.009~0.15	-55.57	PASS
Band13	5MHz	16QAM	23230	1RB#0	0.15~30	-42.48	PASS
Band13	5MHz	16QAM	23230	1RB#0	30~1000	-52.53	PASS
Band13	5MHz	16QAM	23230	1RB#0	1000~3000	-38.66	PASS
Band13	5MHz	16QAM	23230	1RB#0	3000~10000	-35.21	PASS
Band13	5MHz	QPSK	23255	1RB#0	0.009~0.15	-53.87	PASS
Band13	5MHz	QPSK	23255	1RB#0	0.15~30	-44.02	PASS
Band13	5MHz	QPSK	23255	1RB#0	30~1000	-52.61	PASS
Band13	5MHz	QPSK	23255	1RB#0	1000~3000	-38.54	PASS
Band13	5MHz	QPSK	23255	1RB#0	3000~10000	-35.83	PASS
Band13	5MHz	16QAM	23255	1RB#0	0.009~0.15	-58.05	PASS
Band13	5MHz	16QAM	23255	1RB#0	0.15~30	-43.89	PASS
Band13	5MHz	16QAM	23255	1RB#0	30~1000	-52.04	PASS
Band13	5MHz	16QAM	23255	1RB#0	1000~3000	-38.61	PASS
Band13	5MHz	16QAM	23255	1RB#0	3000~10000	-35.30	PASS
Band13	10MHz	QPSK	23230	1RB#0	0.009~0.15	-57.76	PASS
Band13	10MHz	QPSK	23230	1RB#0	0.15~30	-45.92	PASS
Band13	10MHz	QPSK	23230	1RB#0	30~1000	-52.60	PASS
Band13	10MHz	QPSK	23230	1RB#0	1000~3000	-35.42	PASS
Band13	10MHz	QPSK	23230	1RB#0	3000~10000	-35.41	PASS



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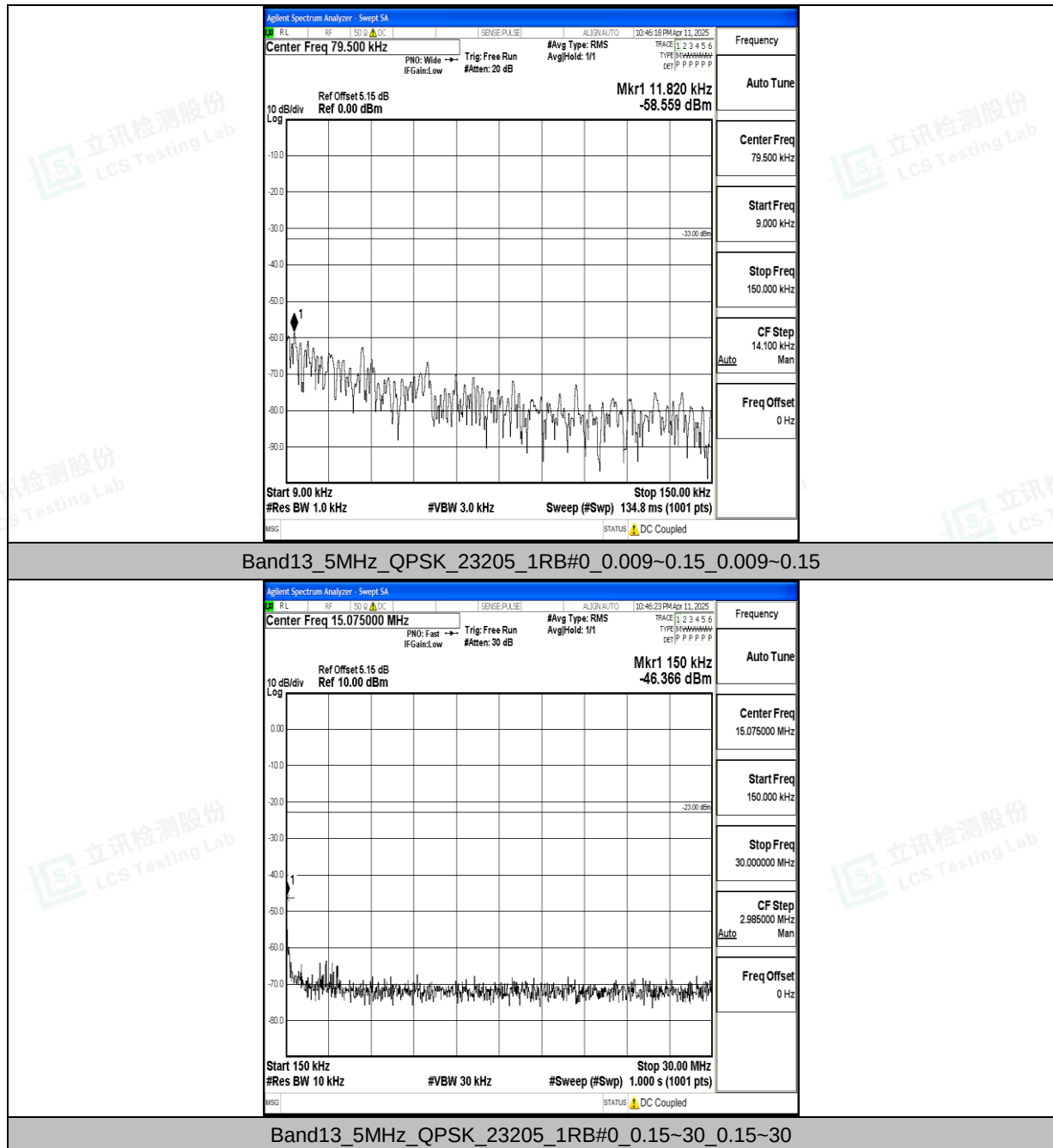
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Band13	10MHz	16QAM	23230	1RB#0	0.009~0.15	-59.01	PASS
Band13	10MHz	16QAM	23230	1RB#0	0.15~30	-47.12	PASS
Band13	10MHz	16QAM	23230	1RB#0	30~1000	-53.31	PASS
Band13	10MHz	16QAM	23230	1RB#0	1000~3000	-35.71	PASS
Band13	10MHz	16QAM	23230	1RB#0	3000~10000	-35.04	PASS

Test Graphs

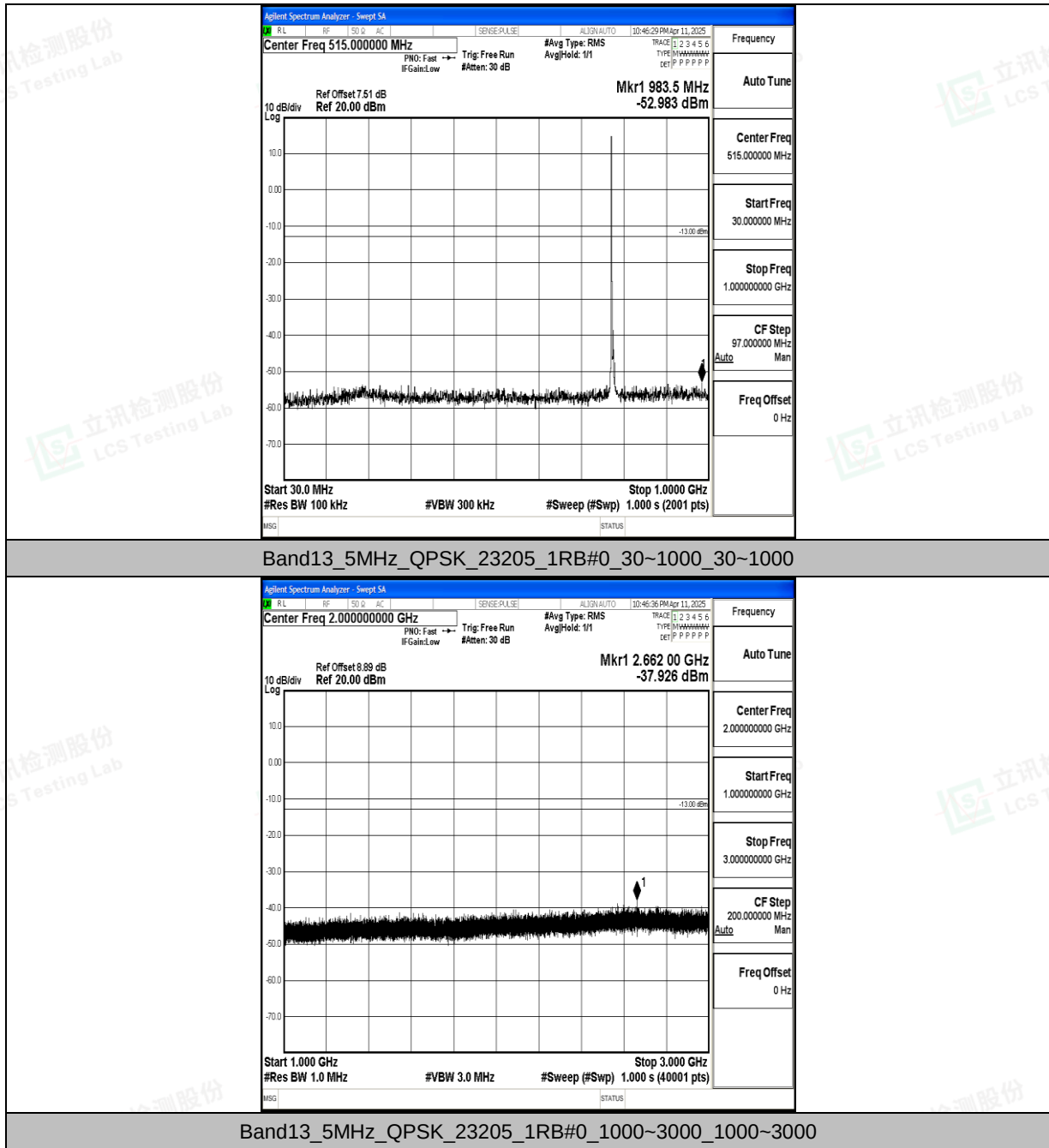


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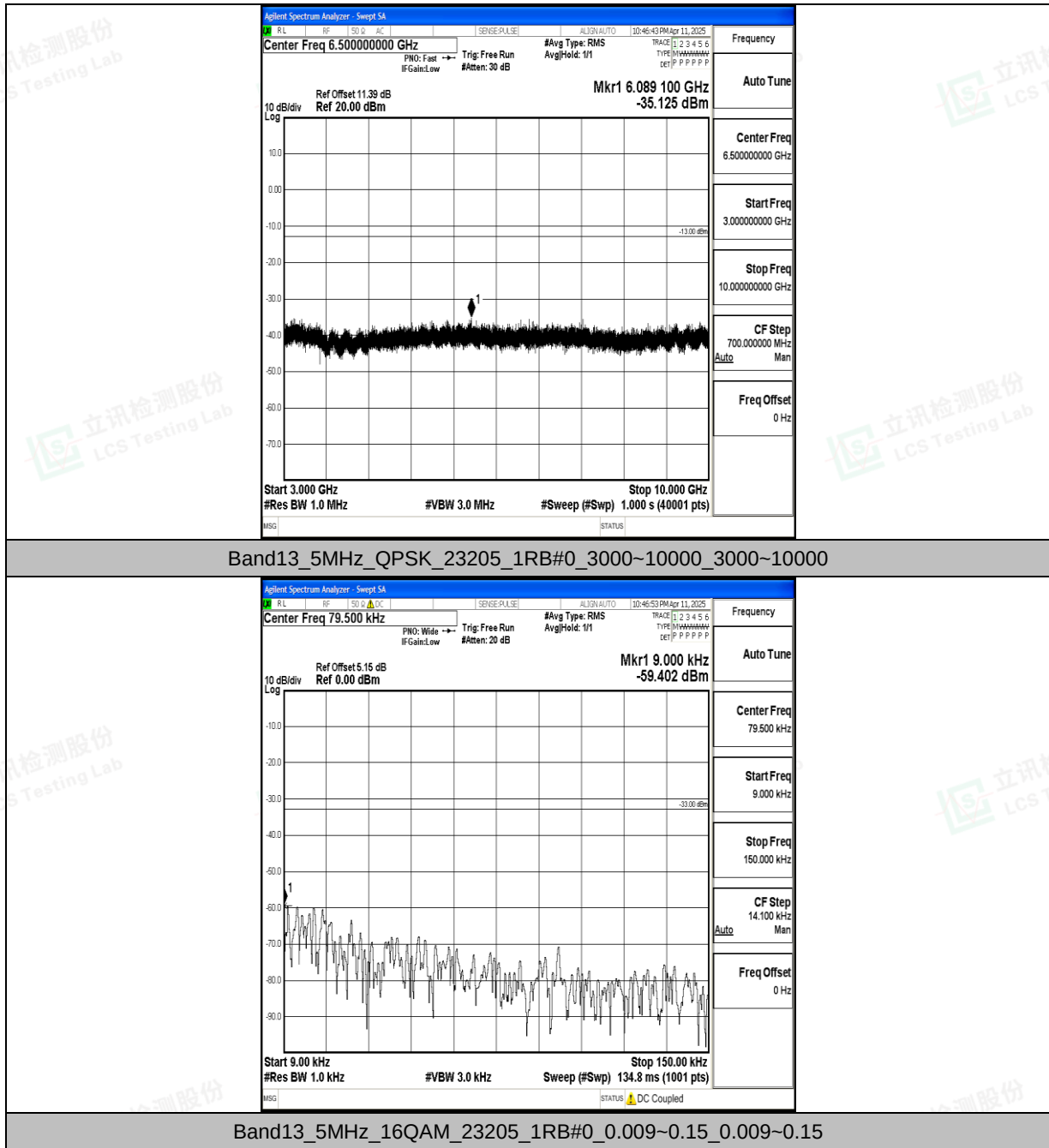


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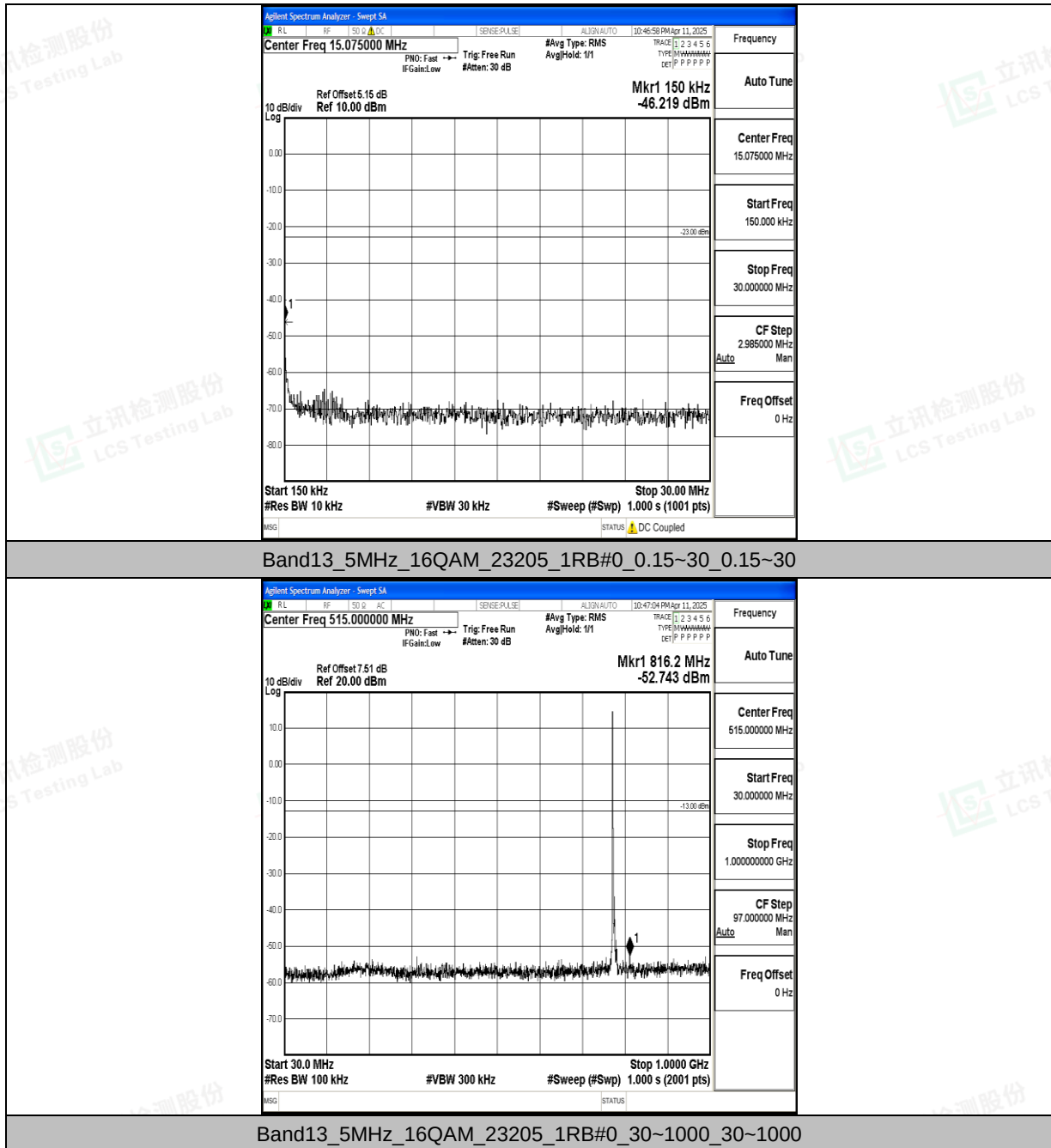


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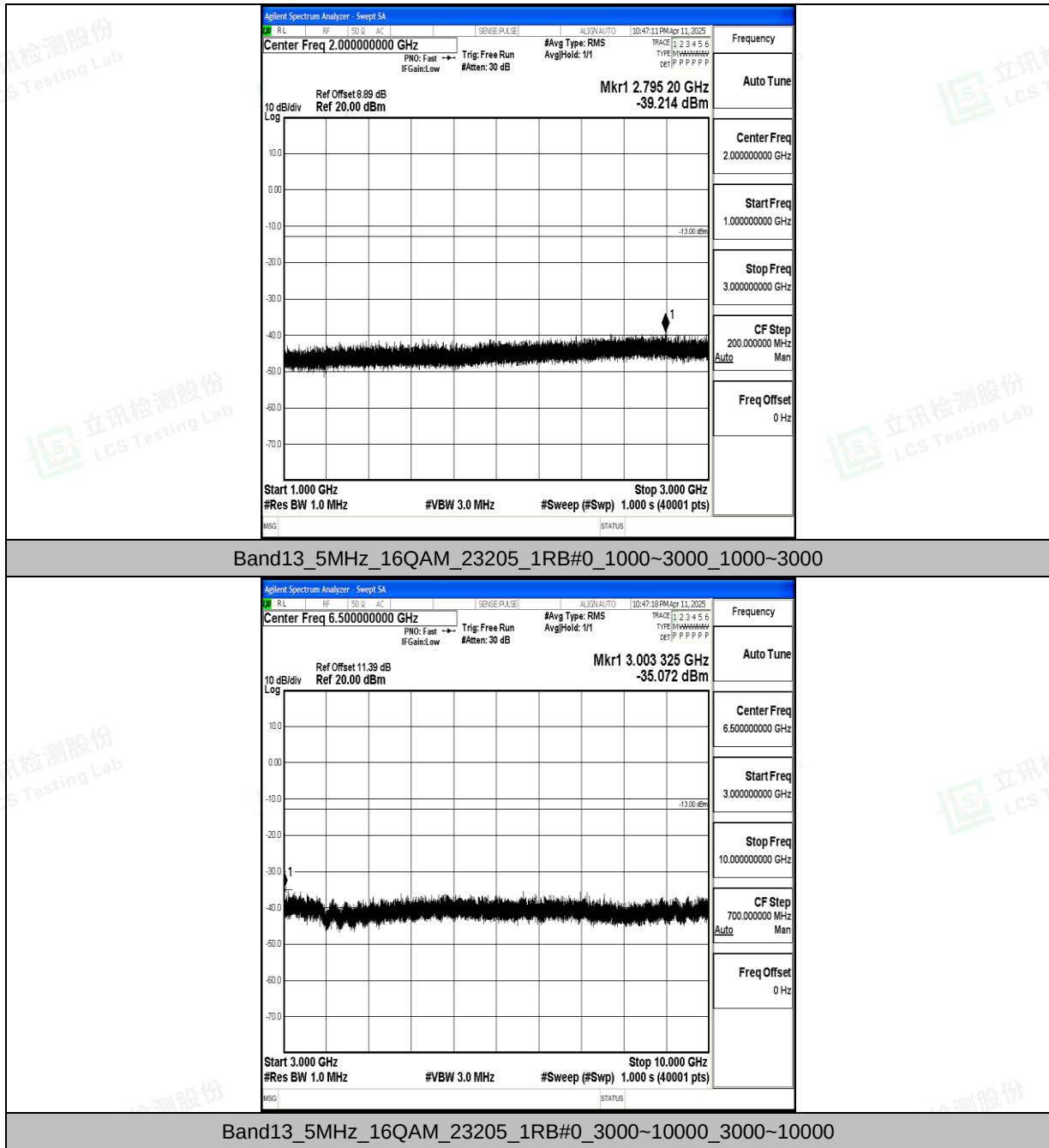


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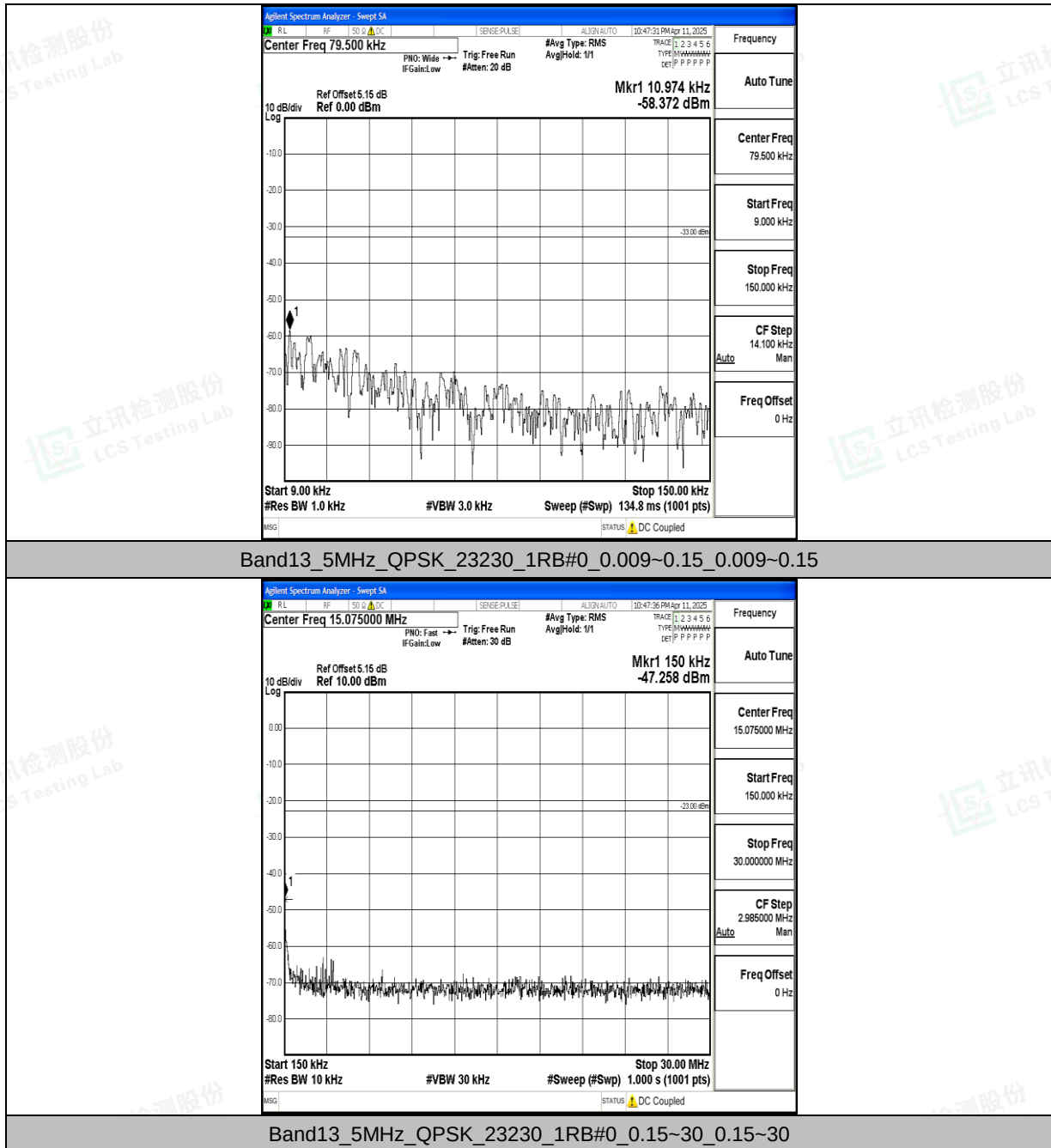


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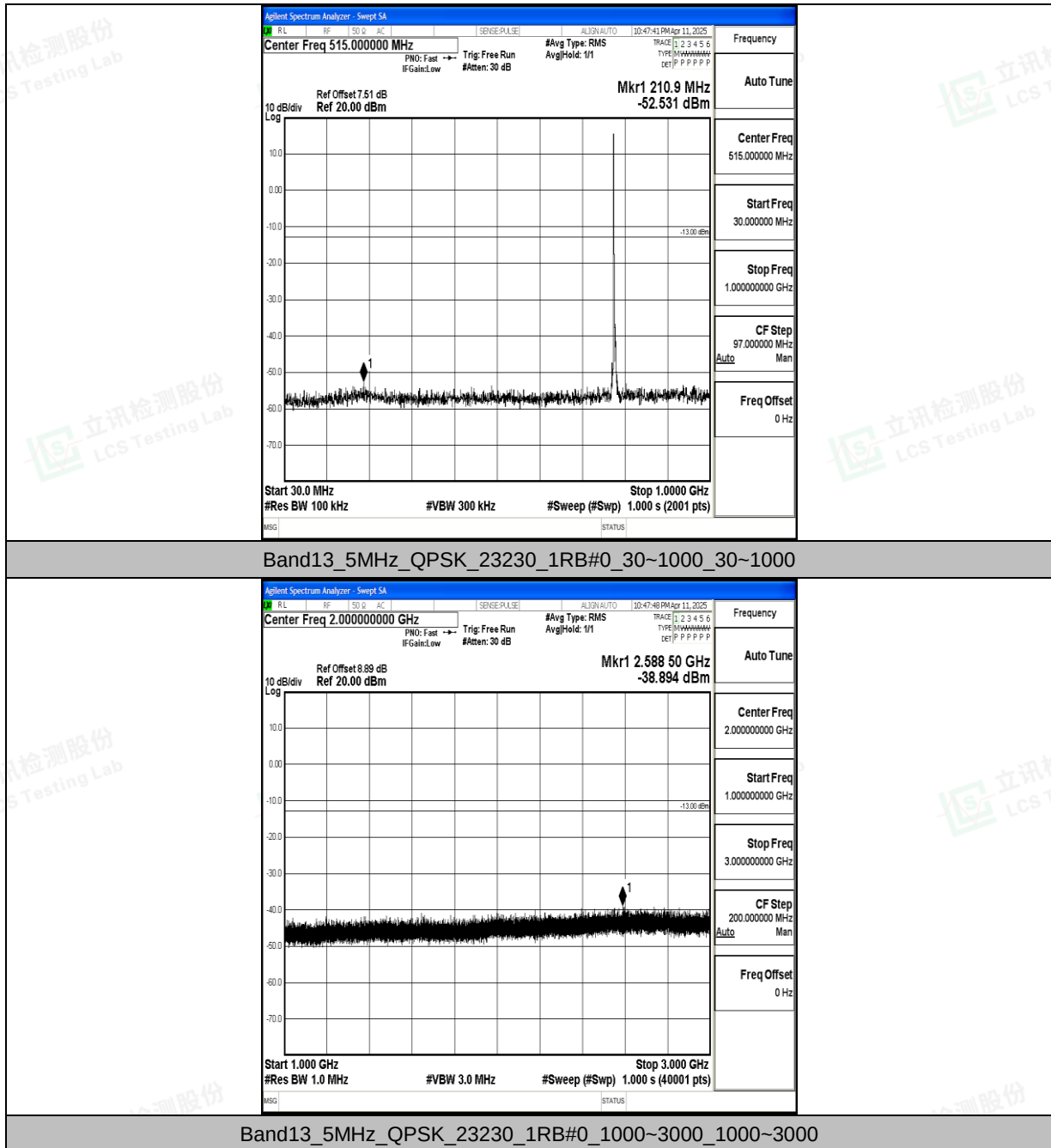


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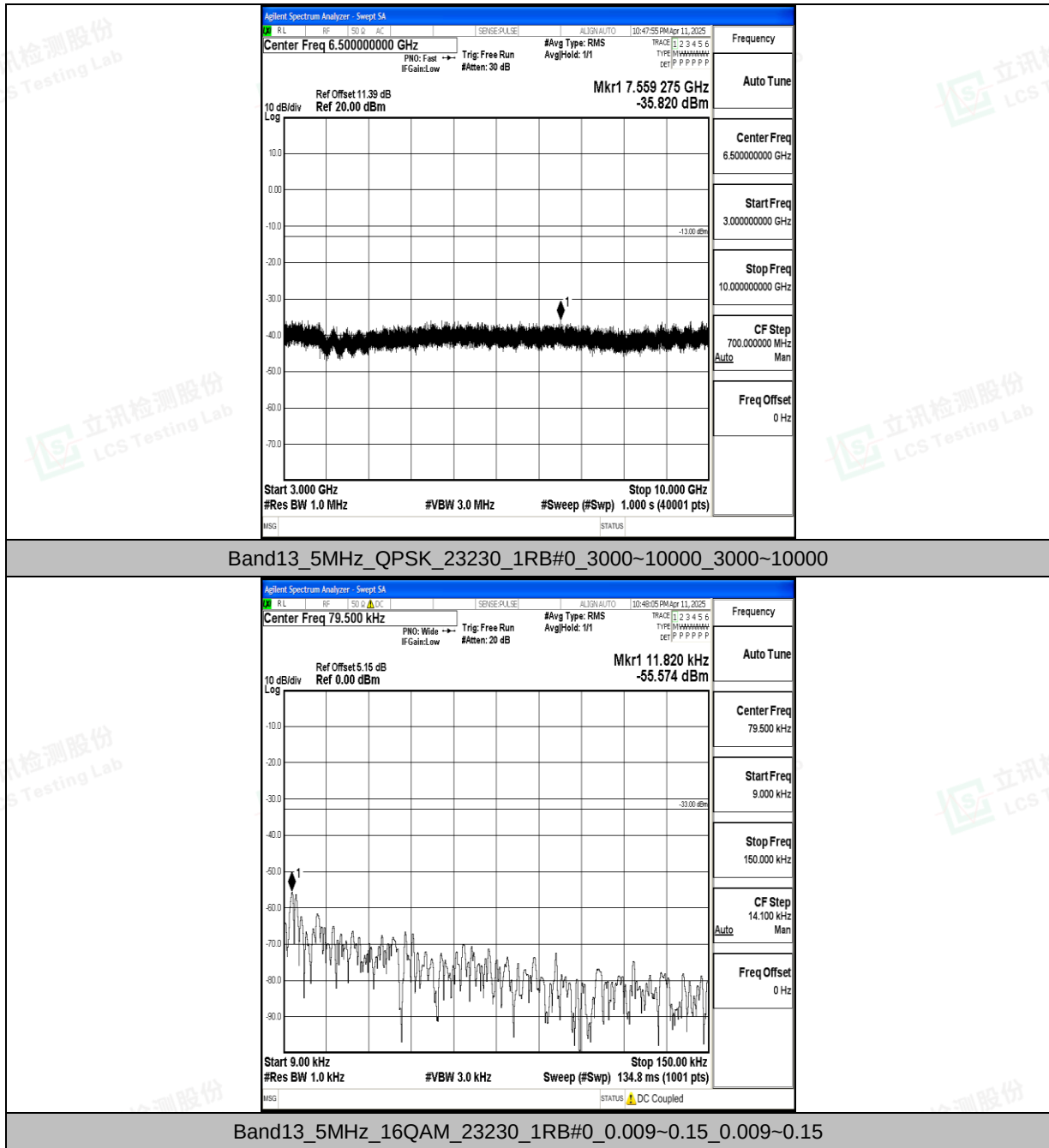


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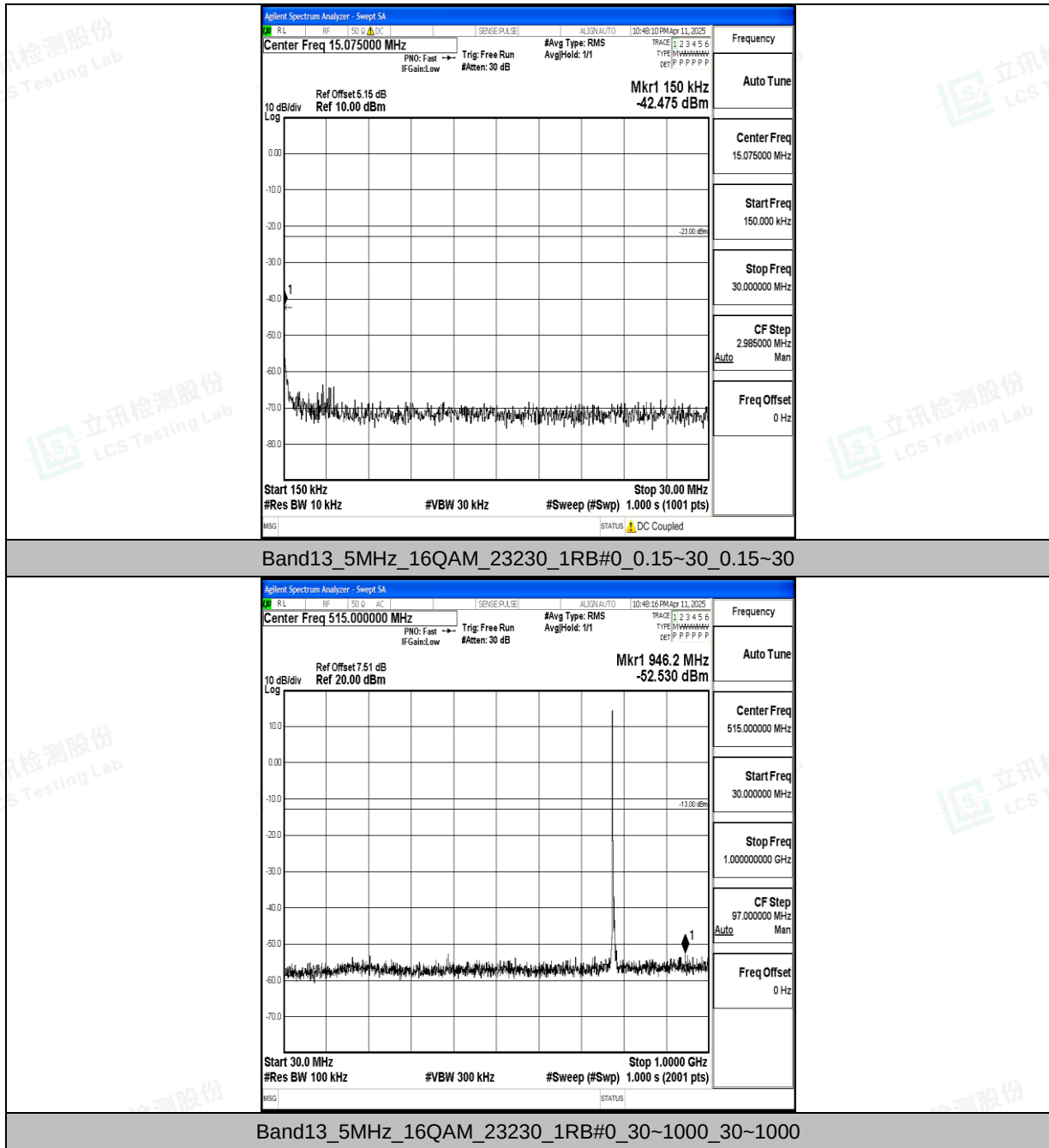


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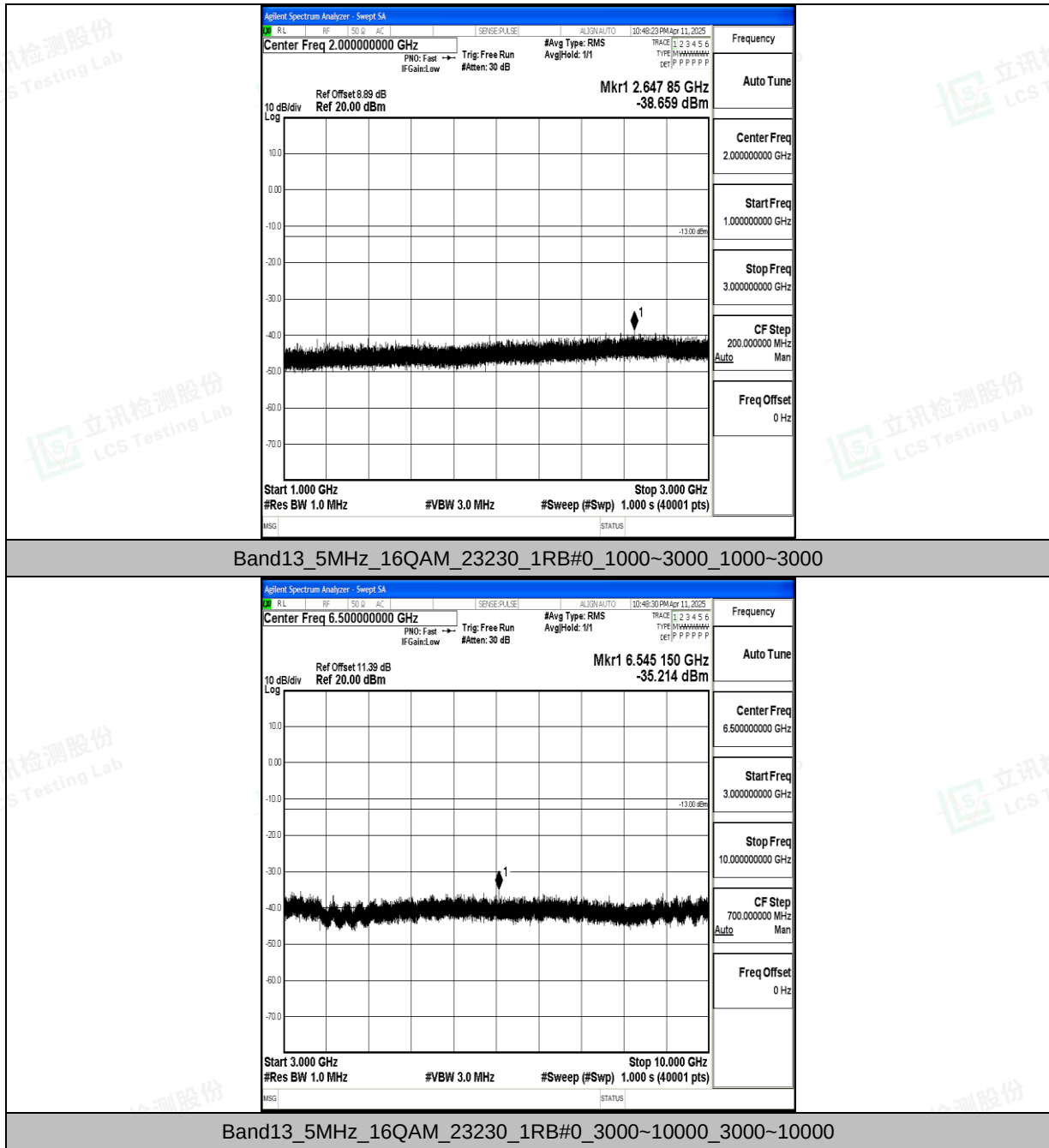


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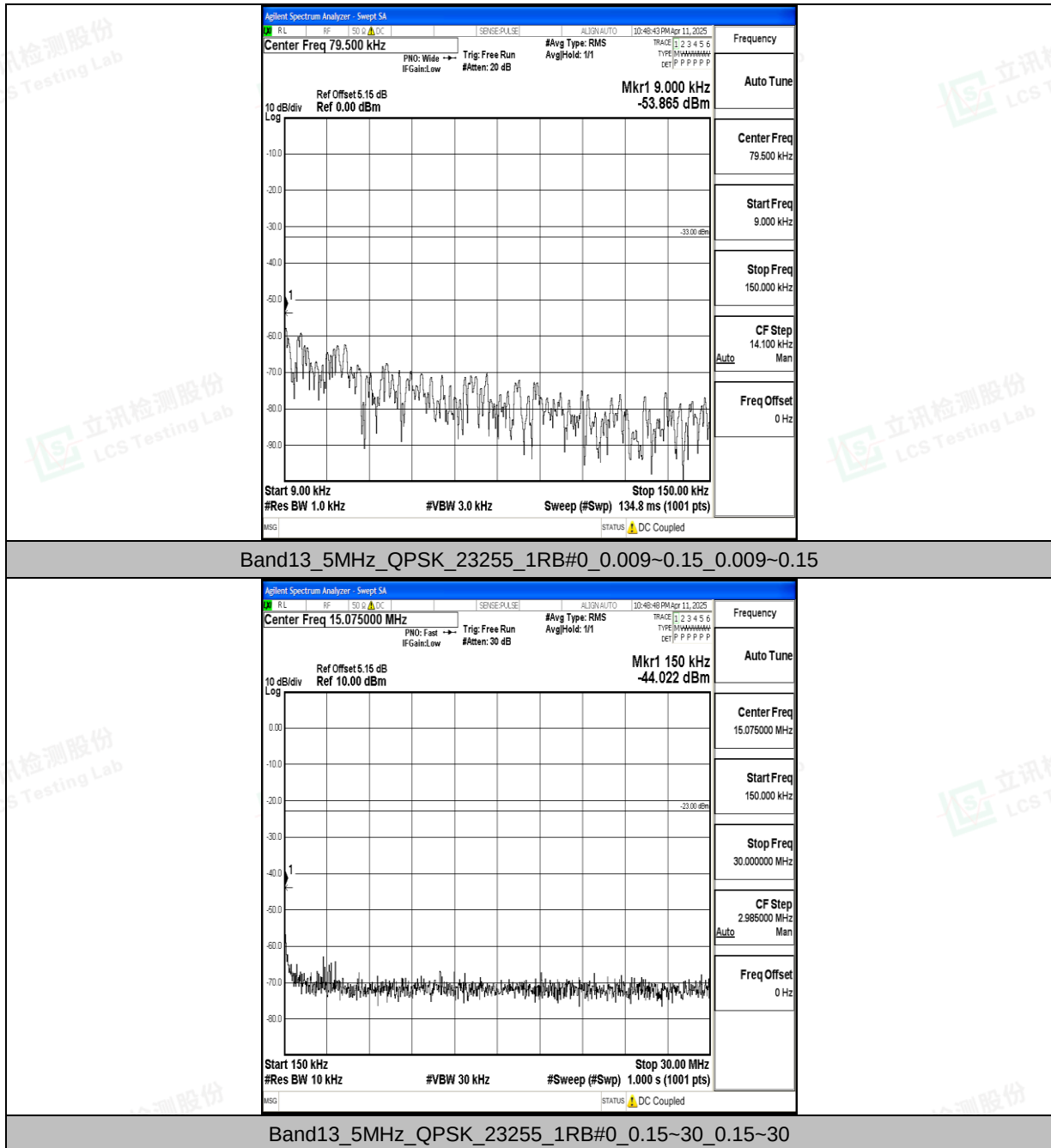


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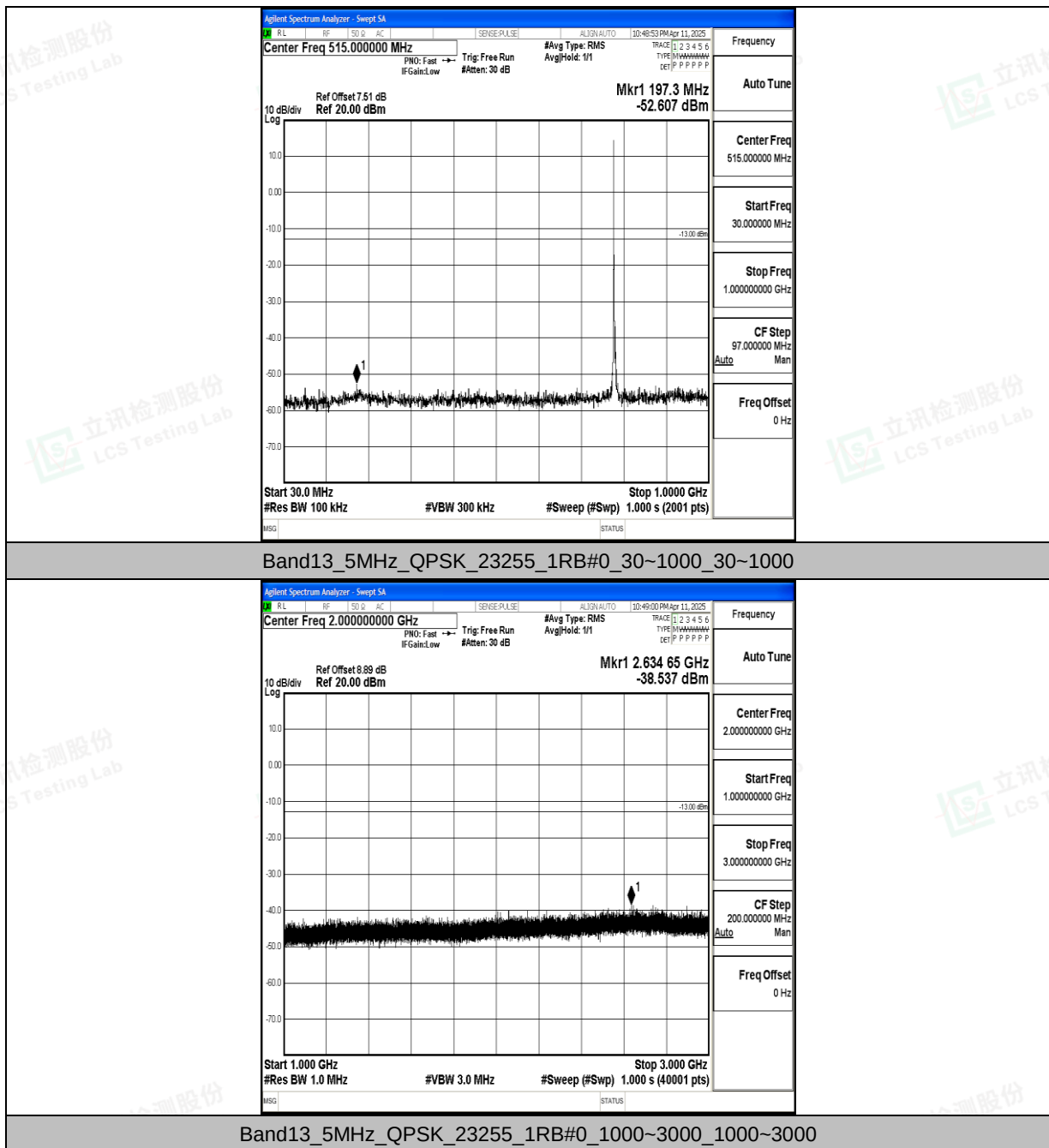


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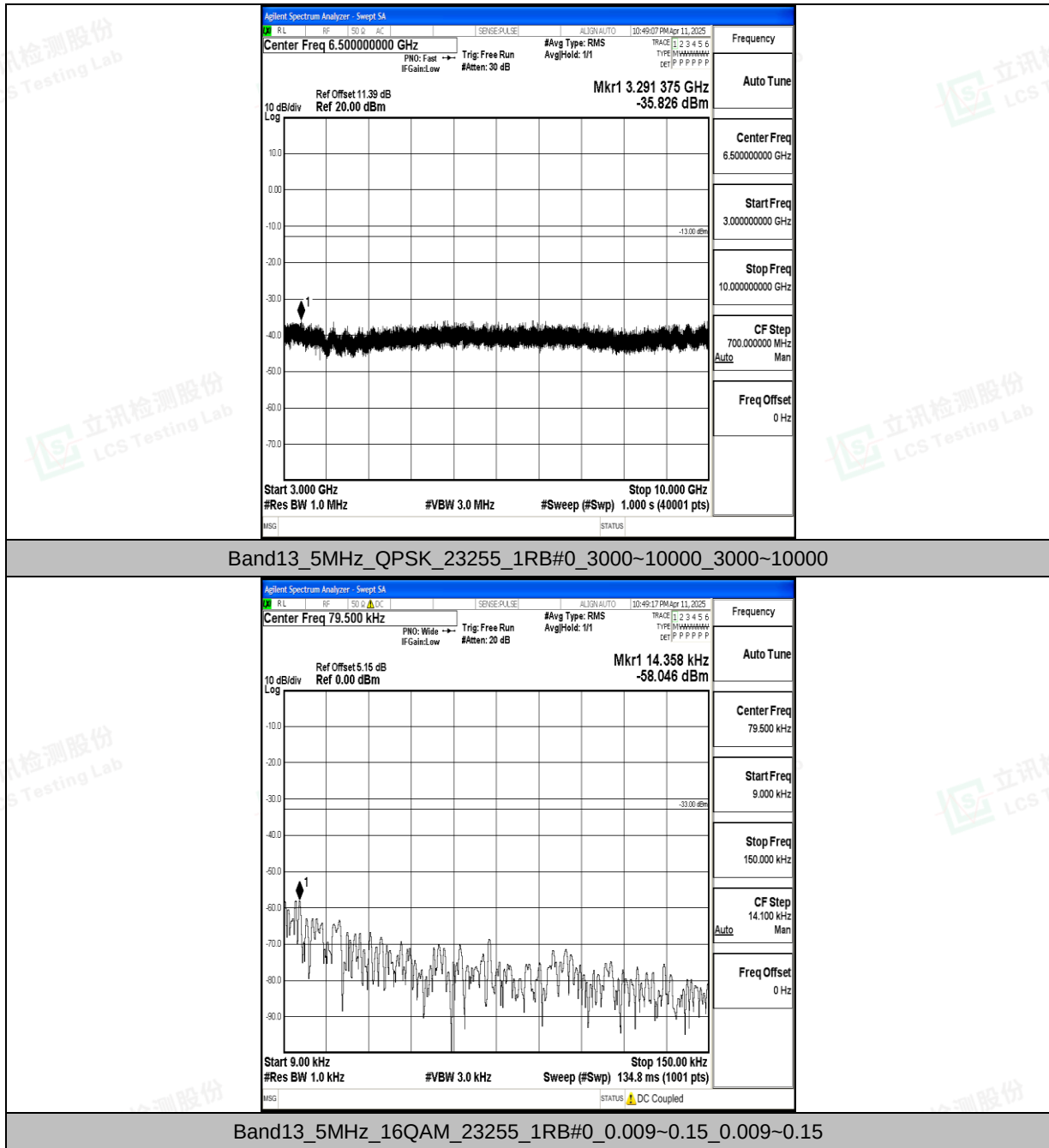


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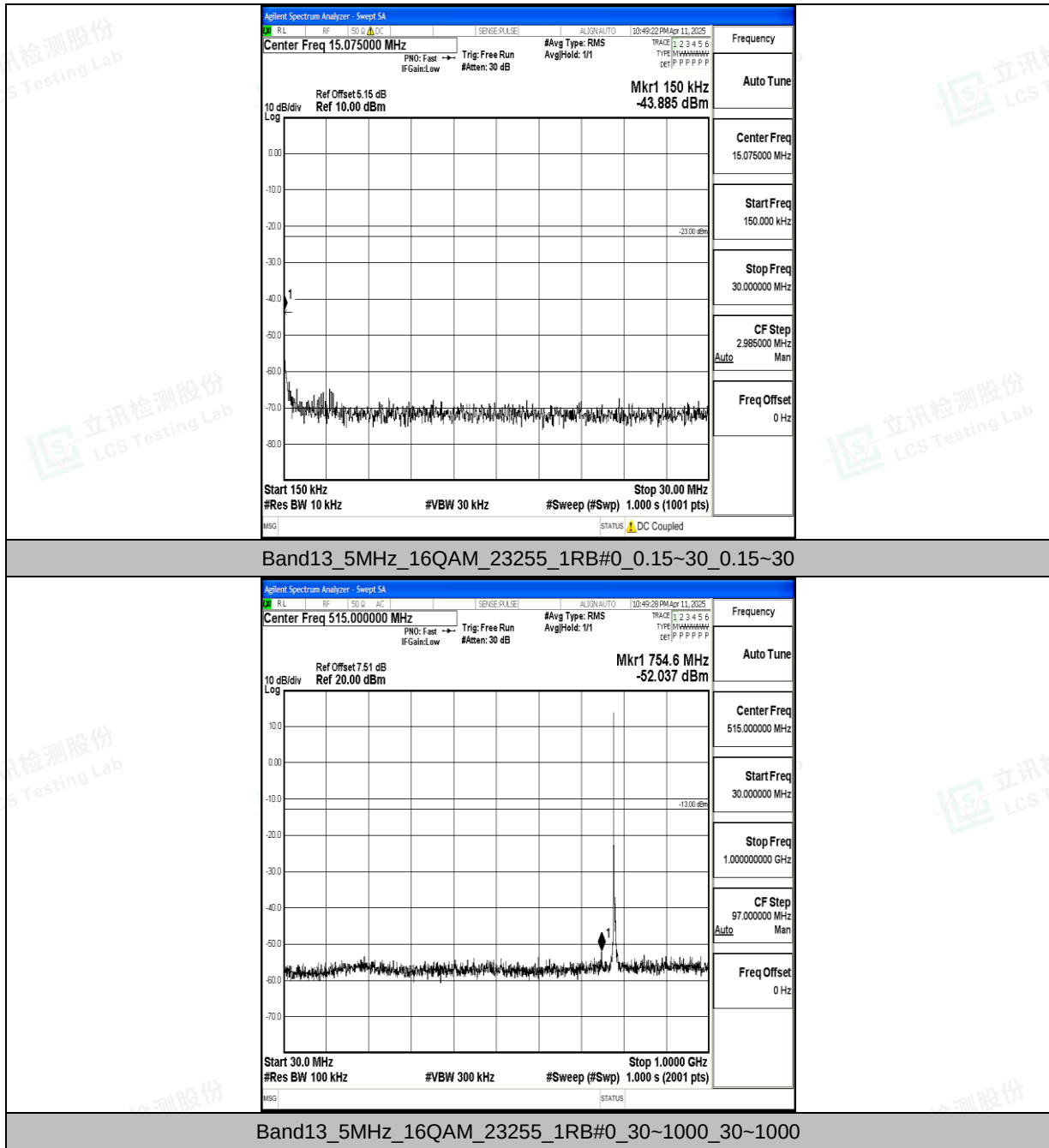


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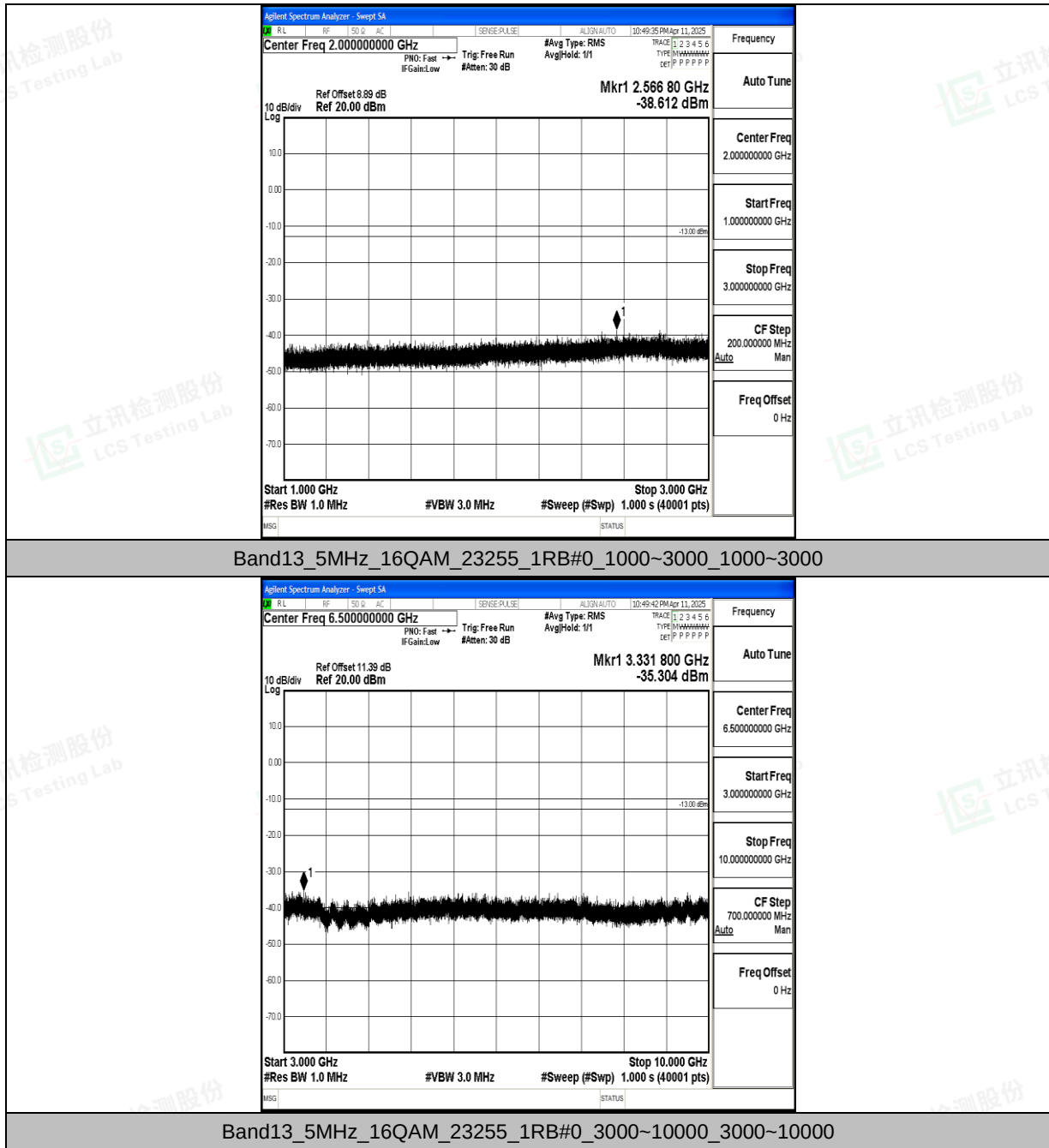


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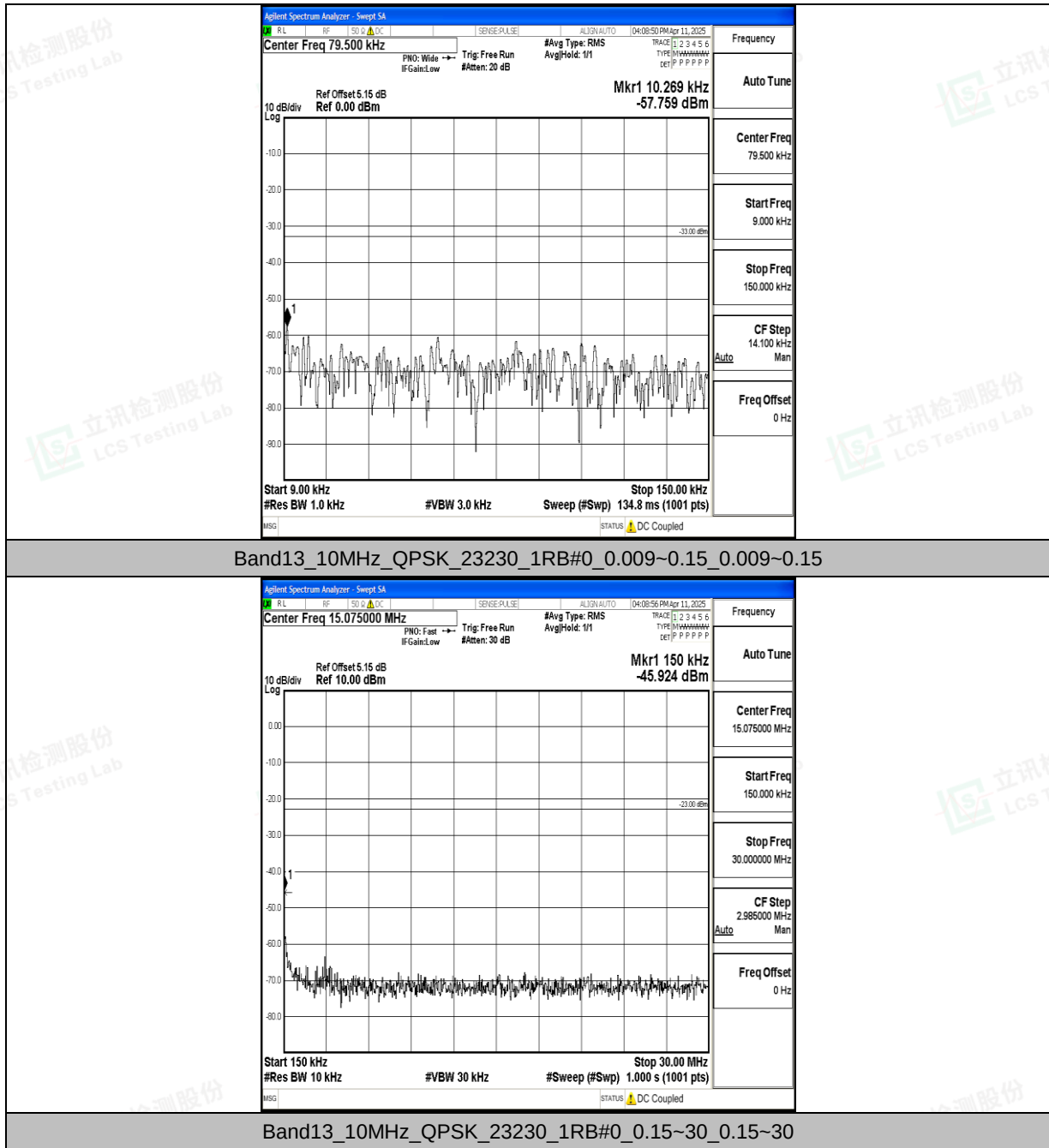


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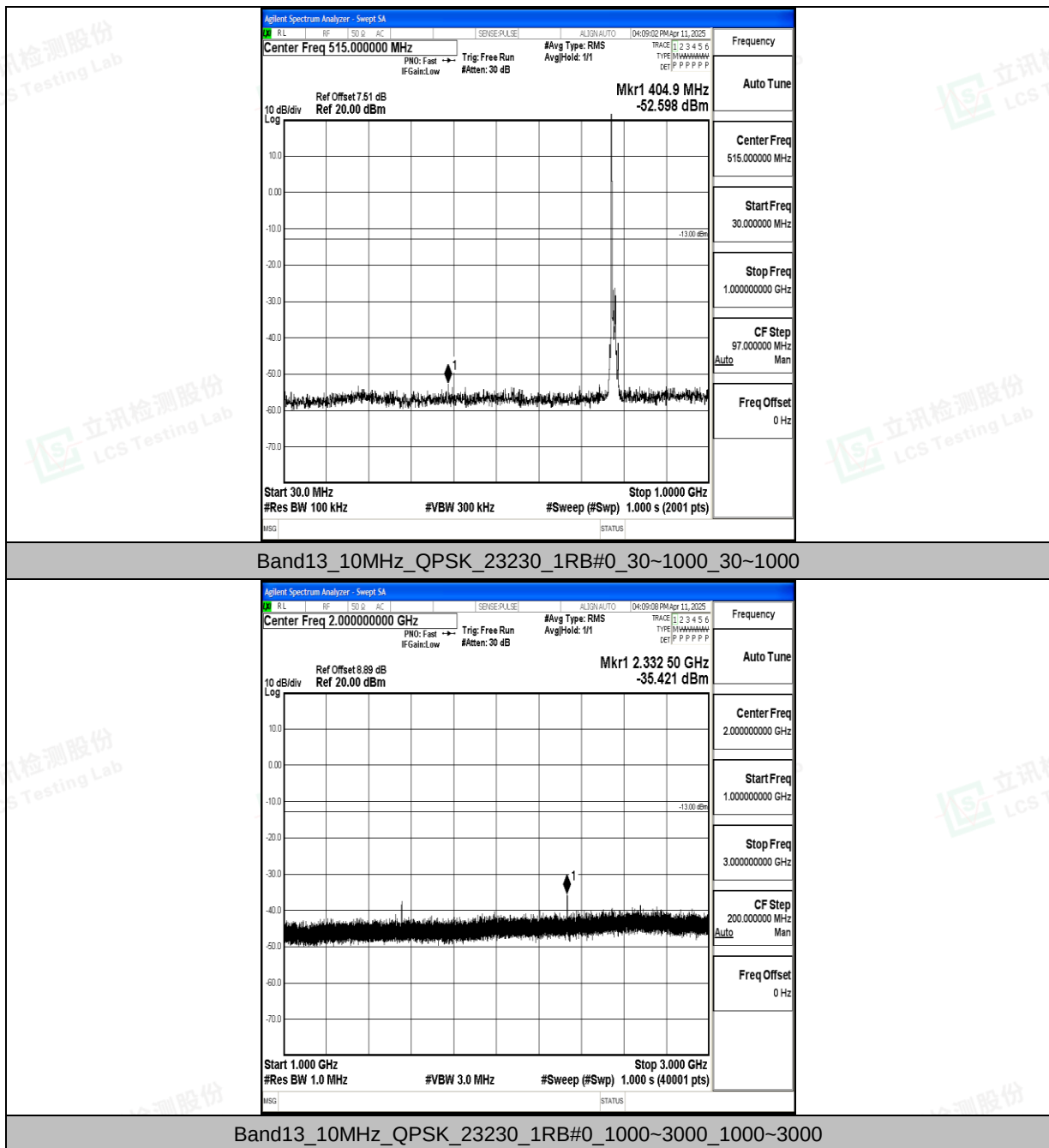


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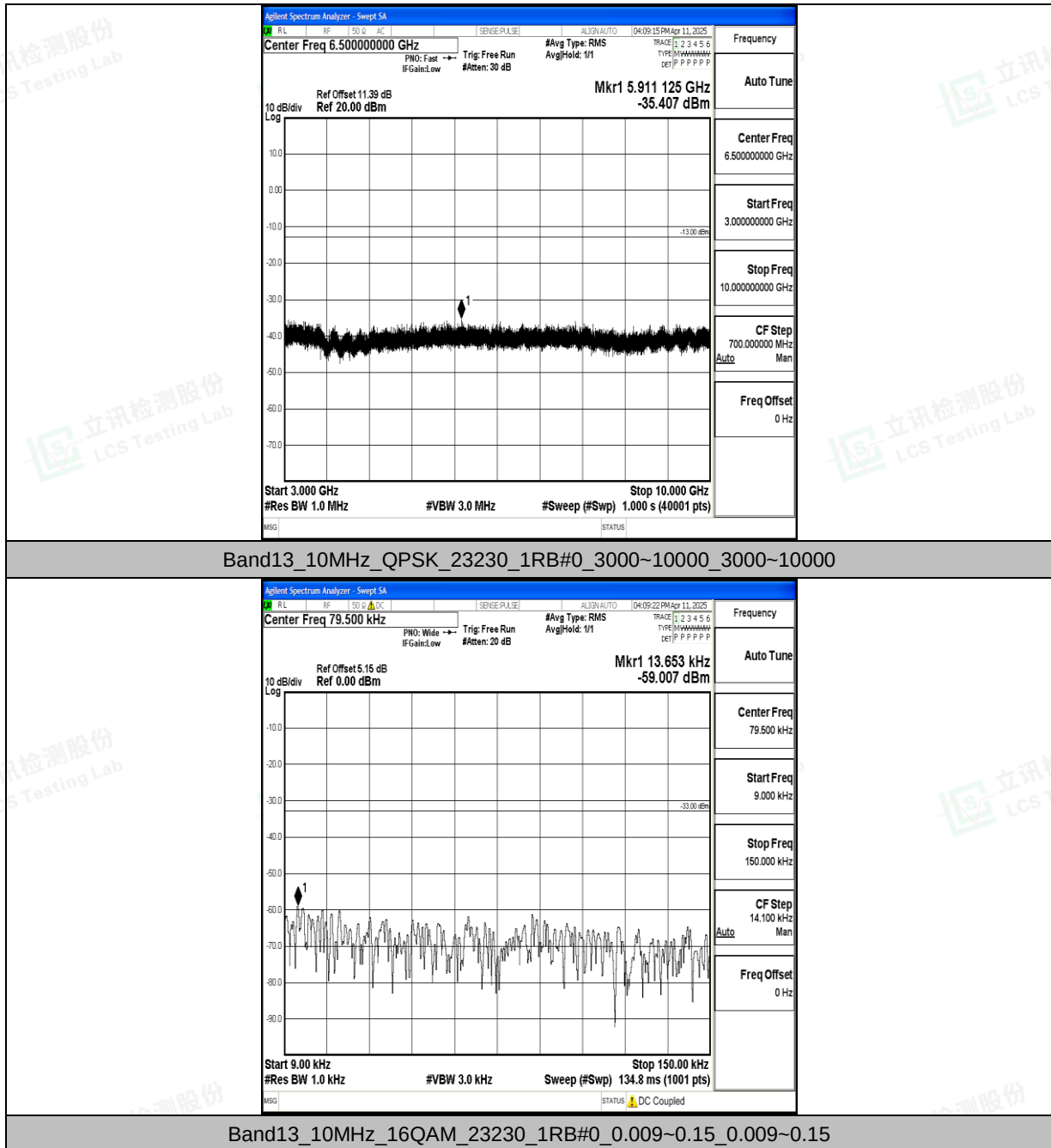


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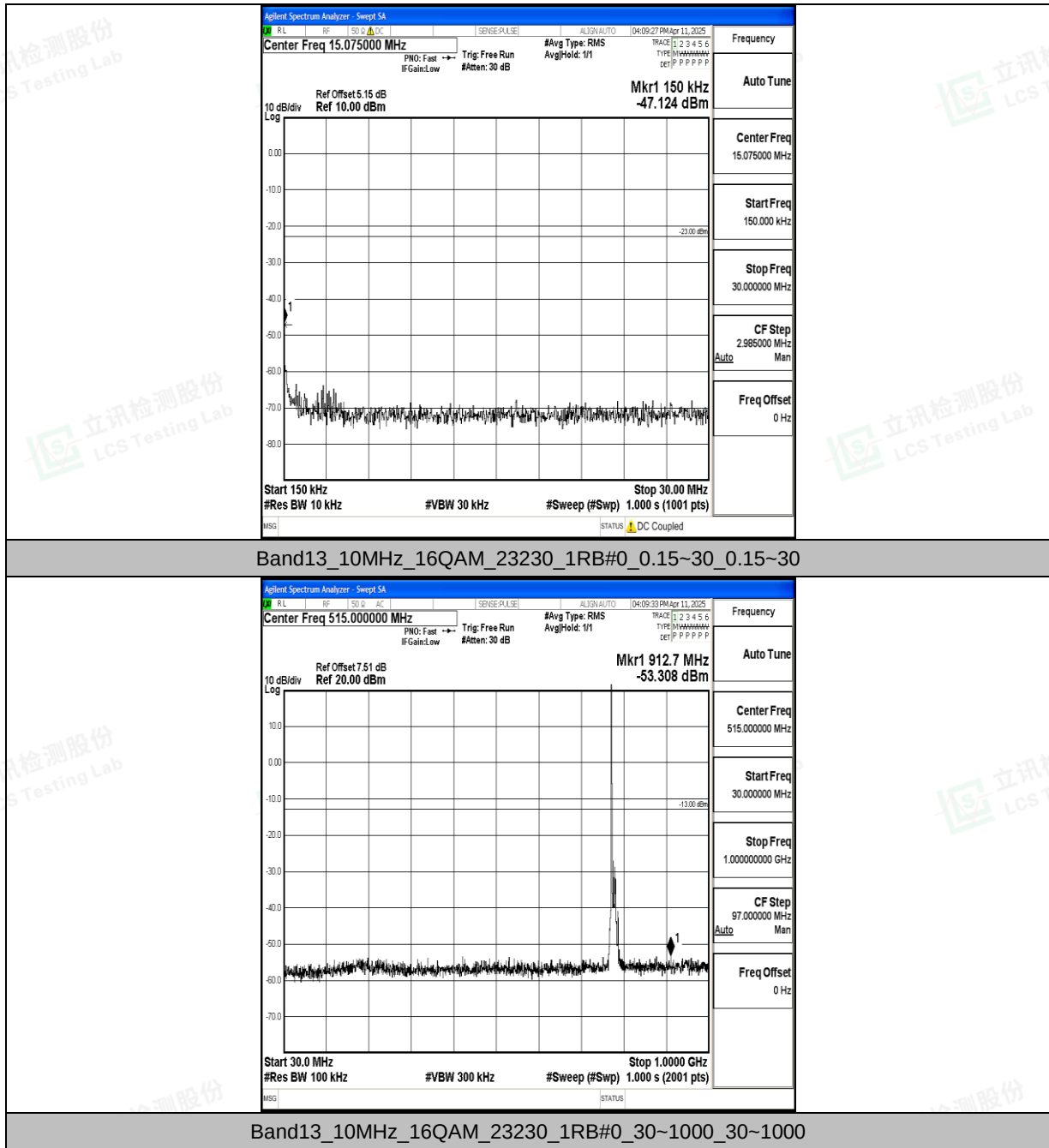


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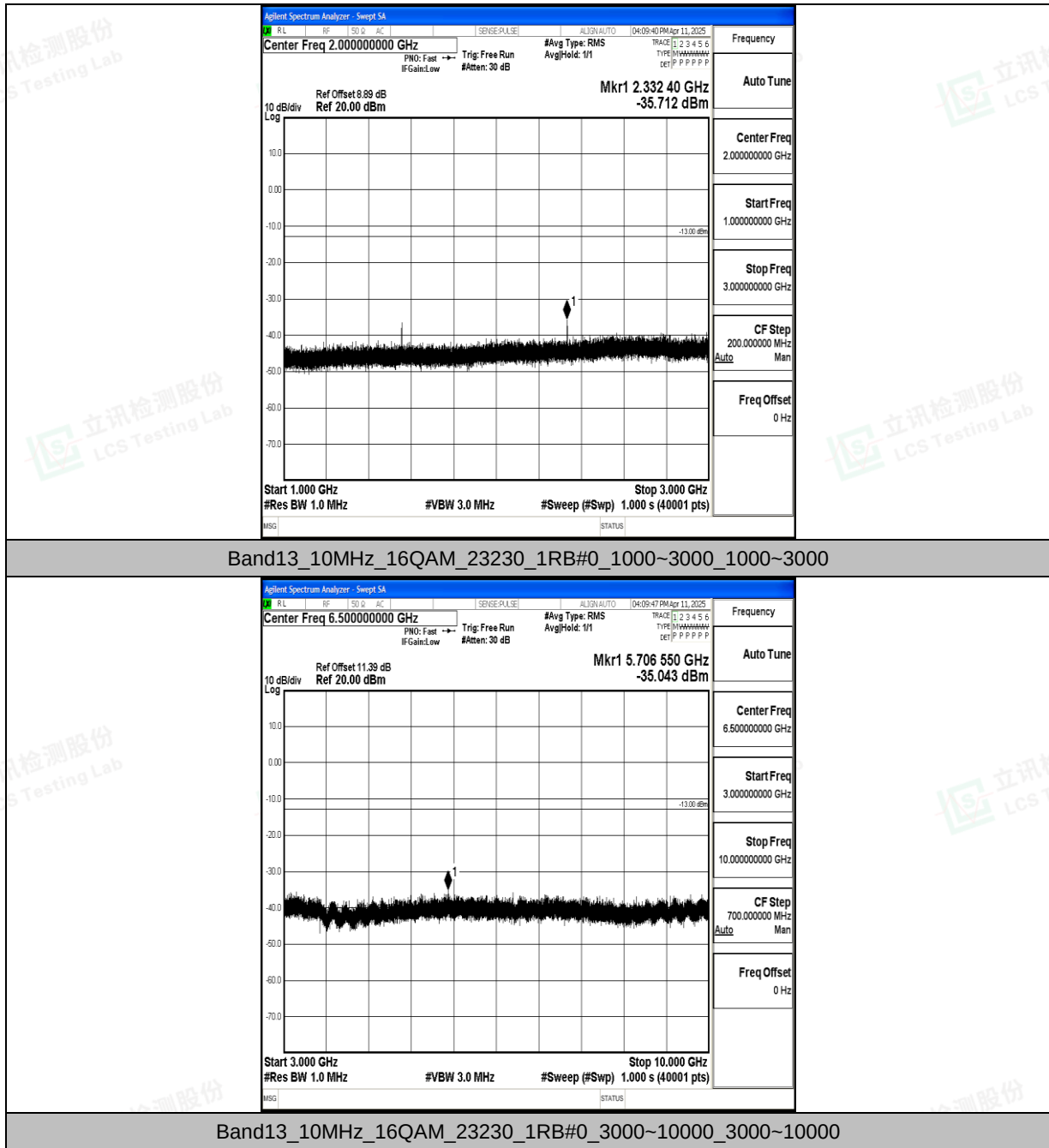


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