



Appendix L: Test Data for E-UTRA Band 13

Product Name: Mobile phone

Test Model: F91

Environmental Conditions

Temperature:	24.4°C
Relative Humidity:	53.2%
ATM Pressure:	100.0 kPa
Test Engineer:	Jerry Chu
Supervised by:	Can Kun





L.1 Conducted Output Power Data

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band13	5MHz	QPSK	23205	1RB#0	24.31	PASS
Band13	5MHz	16QAM	23205	1RB#0	23.60	PASS
Band13	5MHz	QPSK	23205	1RB#12	24.24	PASS
Band13	5MHz	16QAM	23205	1RB#12	23.59	PASS
Band13	5MHz	QPSK	23205	1RB#24	24.36	PASS
Band13	5MHz	16QAM	23205	1RB#24	23.54	PASS
Band13	5MHz	QPSK	23205	12RB#0	23.60	PASS
Band13	5MHz	16QAM	23205	12RB#0	22.74	PASS
Band13	5MHz	QPSK	23205	12RB#6	23.61	PASS
Band13	5MHz	16QAM	23205	12RB#6	22.75	PASS
Band13	5MHz	QPSK	23205	12RB#13	23.56	PASS
Band13	5MHz	16QAM	23205	12RB#13	22.83	PASS
Band13	5MHz	QPSK	23205	25RB#0	23.69	PASS
Band13	5MHz	16QAM	23205	25RB#0	22.78	PASS
Band13	5MHz	QPSK	23230	1RB#0	24.10	PASS
Band13	5MHz	16QAM	23230	1RB#0	23.06	PASS
Band13	5MHz	QPSK	23230	1RB#12	24.14	PASS
Band13	5MHz	16QAM	23230	1RB#12	23.02	PASS
Band13	5MHz	QPSK	23230	1RB#24	24.13	PASS
Band13	5MHz	16QAM	23230	1RB#24	23.02	PASS
Band13	5MHz	QPSK	23230	12RB#0	23.70	PASS
Band13	5MHz	16QAM	23230	12RB#0	22.70	PASS
Band13	5MHz	QPSK	23230	12RB#6	23.71	PASS
Band13	5MHz	16QAM	23230	12RB#6	22.69	PASS
Band13	5MHz	QPSK	23230	12RB#13	23.69	PASS
Band13	5MHz	16QAM	23230	12RB#13	22.76	PASS
Band13	5MHz	QPSK	23230	25RB#0	23.65	PASS
Band13	5MHz	16QAM	23230	25RB#0	22.82	PASS
Band13	5MHz	QPSK	23255	1RB#0	24.16	PASS
Band13	5MHz	16QAM	23255	1RB#0	23.86	PASS
Band13	5MHz	QPSK	23255	1RB#12	24.10	PASS
Band13	5MHz	16QAM	23255	1RB#12	23.73	PASS
Band13	5MHz	QPSK	23255	1RB#24	24.15	PASS
Band13	5MHz	16QAM	23255	1RB#24	23.77	PASS
Band13	5MHz	QPSK	23255	12RB#0	23.71	PASS
Band13	5MHz	16QAM	23255	12RB#0	22.84	PASS
Band13	5MHz	QPSK	23255	12RB#6	23.70	PASS



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Band13	5MHz	16QAM	23255	12RB#6	22.84	PASS
Band13	5MHz	QPSK	23255	12RB#13	23.57	PASS
Band13	5MHz	16QAM	23255	12RB#13	22.84	PASS
Band13	5MHz	QPSK	23255	25RB#0	23.67	PASS
Band13	5MHz	16QAM	23255	25RB#0	22.72	PASS
Band13	10MHz	QPSK	23230	1RB#0	24.17	PASS
Band13	10MHz	16QAM	23230	1RB#0	23.46	PASS
Band13	10MHz	QPSK	23230	1RB#24	24.09	PASS
Band13	10MHz	16QAM	23230	1RB#24	23.39	PASS
Band13	10MHz	QPSK	23230	1RB#49	24.13	PASS
Band13	10MHz	16QAM	23230	1RB#49	23.40	PASS
Band13	10MHz	QPSK	23230	25RB#0	23.63	PASS
Band13	10MHz	16QAM	23230	25RB#0	22.74	PASS
Band13	10MHz	QPSK	23230	25RB#12	23.71	PASS
Band13	10MHz	16QAM	23230	25RB#12	22.74	PASS
Band13	10MHz	QPSK	23230	25RB#25	23.72	PASS
Band13	10MHz	16QAM	23230	25RB#25	22.70	PASS
Band13	10MHz	QPSK	23230	50RB#0	23.74	PASS
Band13	10MHz	16QAM	23230	50RB#0	22.79	PASS





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

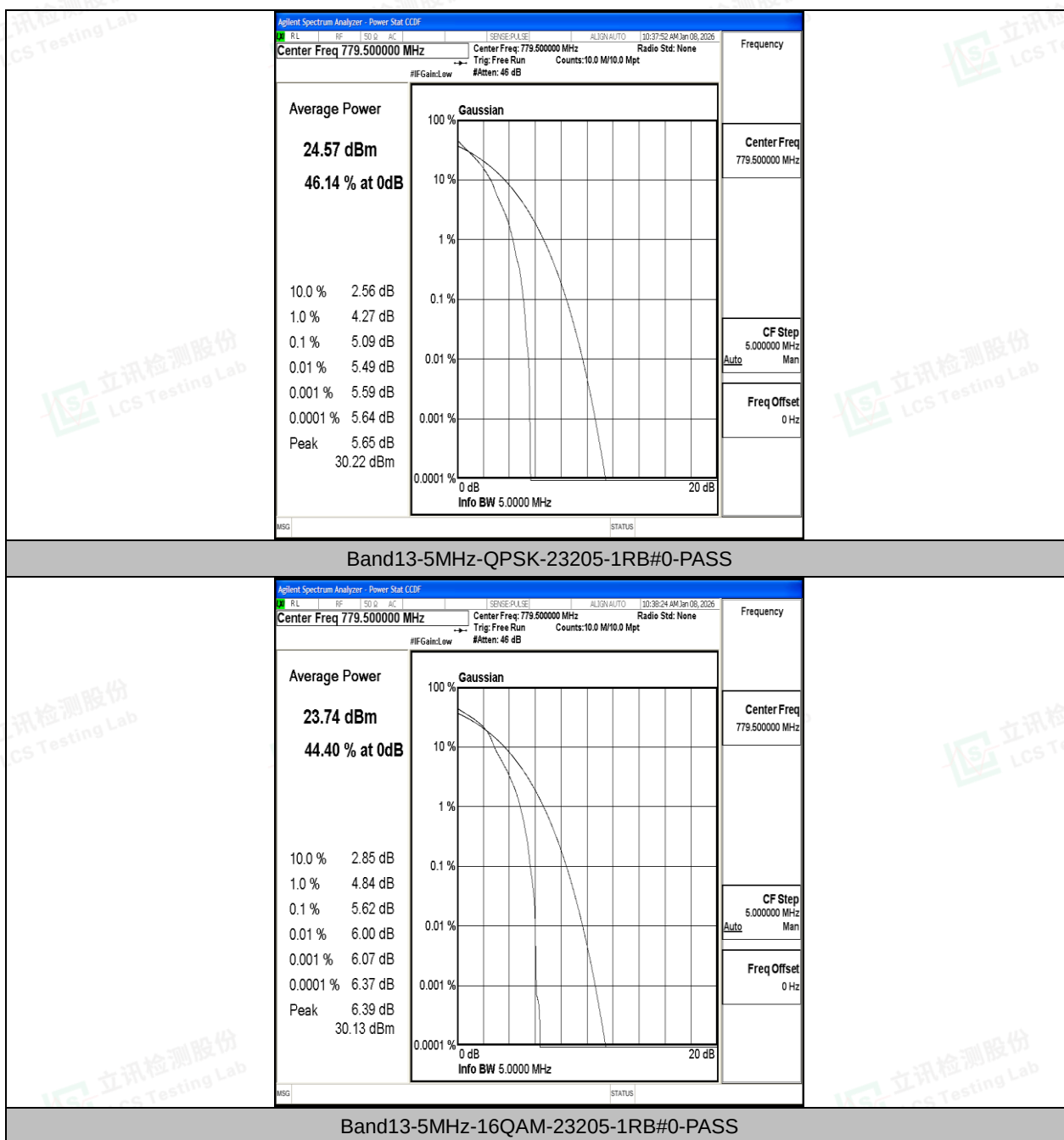
Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band13	5MHz	QPSK	23205	1RB#0	5.09	13	PASS
Band13	5MHz	16QAM	23205	1RB#0	5.62	13	PASS
Band13	5MHz	QPSK	23205	25RB#0	5.56	13	PASS
Band13	5MHz	16QAM	23205	25RB#0	6.22	13	PASS
Band13	5MHz	QPSK	23230	1RB#0	5.16	13	PASS
Band13	5MHz	16QAM	23230	1RB#0	5.59	13	PASS
Band13	5MHz	QPSK	23230	25RB#0	5.64	13	PASS
Band13	5MHz	16QAM	23230	25RB#0	6.30	13	PASS
Band13	5MHz	QPSK	23255	1RB#0	5.25	13	PASS
Band13	5MHz	16QAM	23255	1RB#0	5.82	13	PASS
Band13	5MHz	QPSK	23255	25RB#0	5.64	13	PASS
Band13	5MHz	16QAM	23255	25RB#0	6.33	13	PASS
Band13	10MHz	QPSK	23230	1RB#0	5.01	13	PASS
Band13	10MHz	16QAM	23230	1RB#0	5.75	13	PASS
Band13	10MHz	QPSK	23230	50RB#0	5.63	13	PASS
Band13	10MHz	16QAM	23230	50RB#0	6.35	13	PASS





Test Graphs

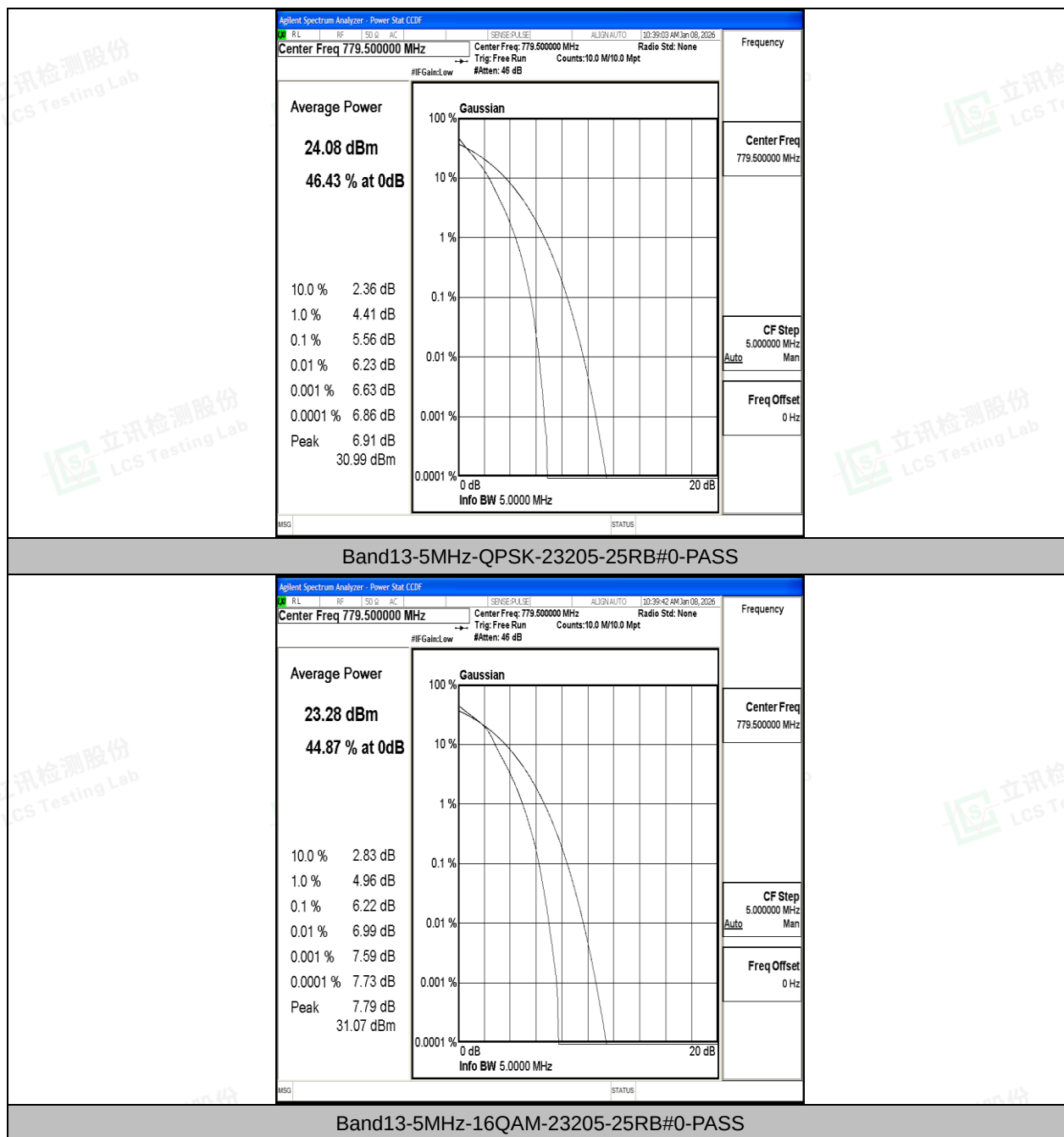


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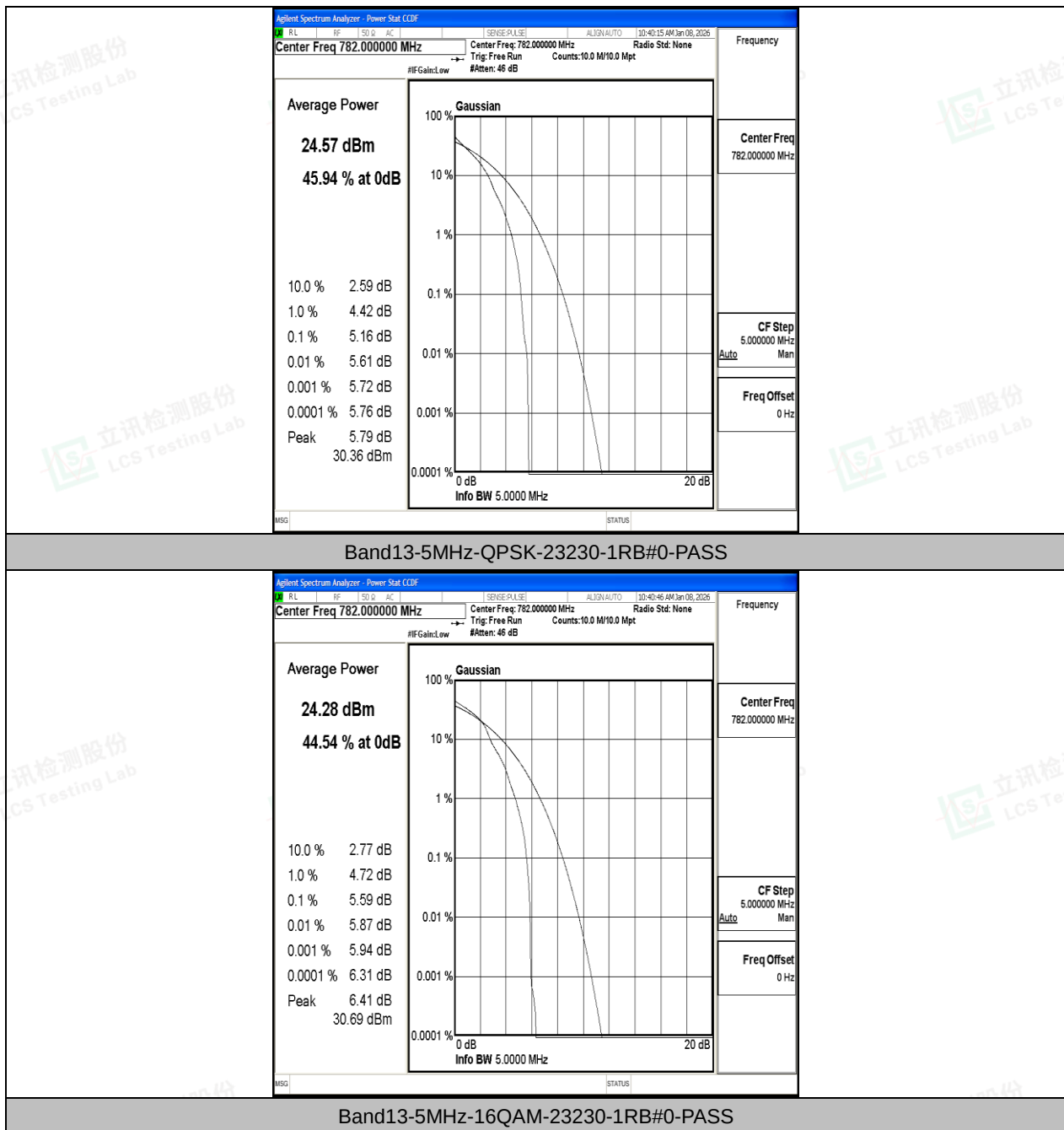


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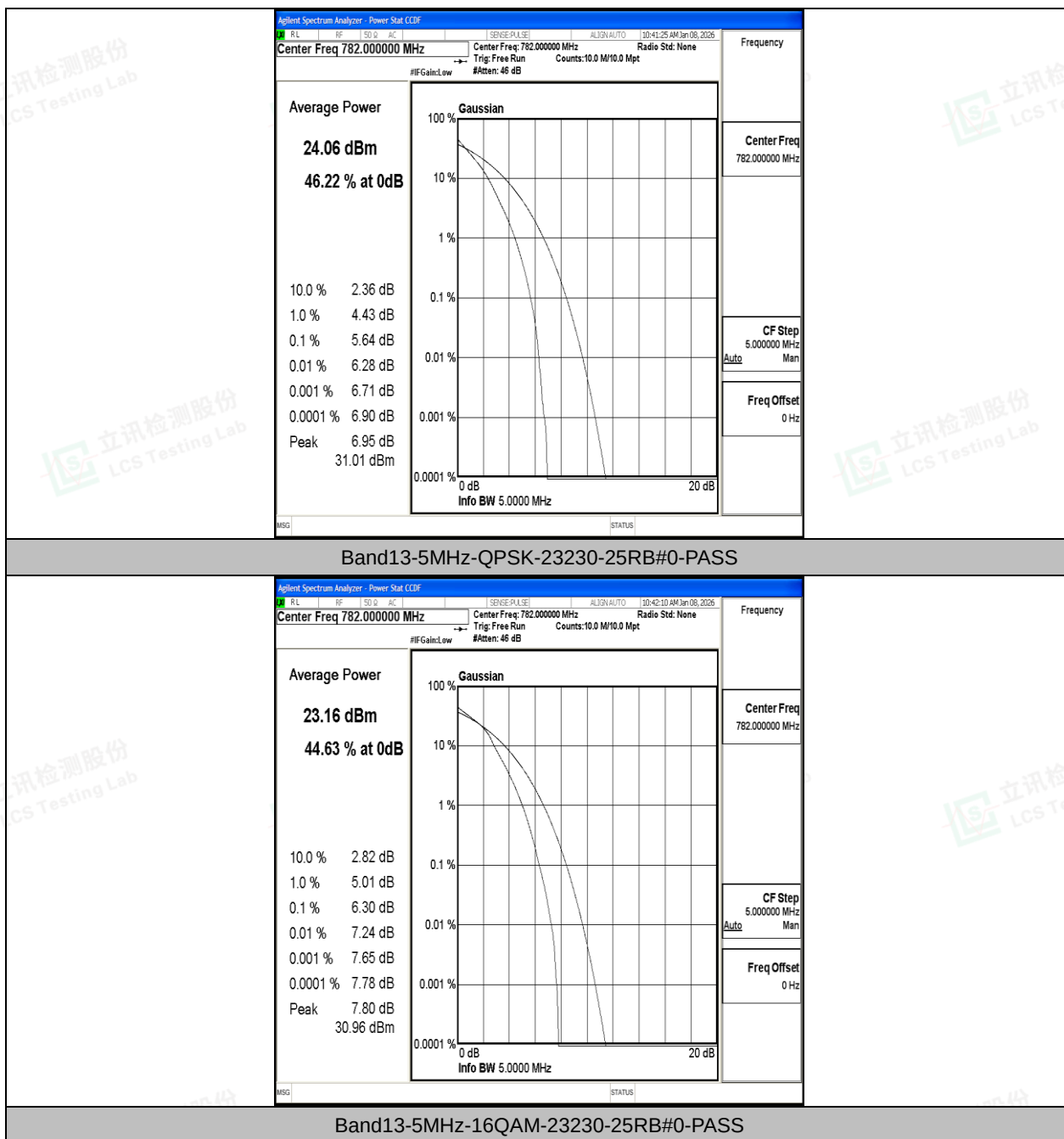


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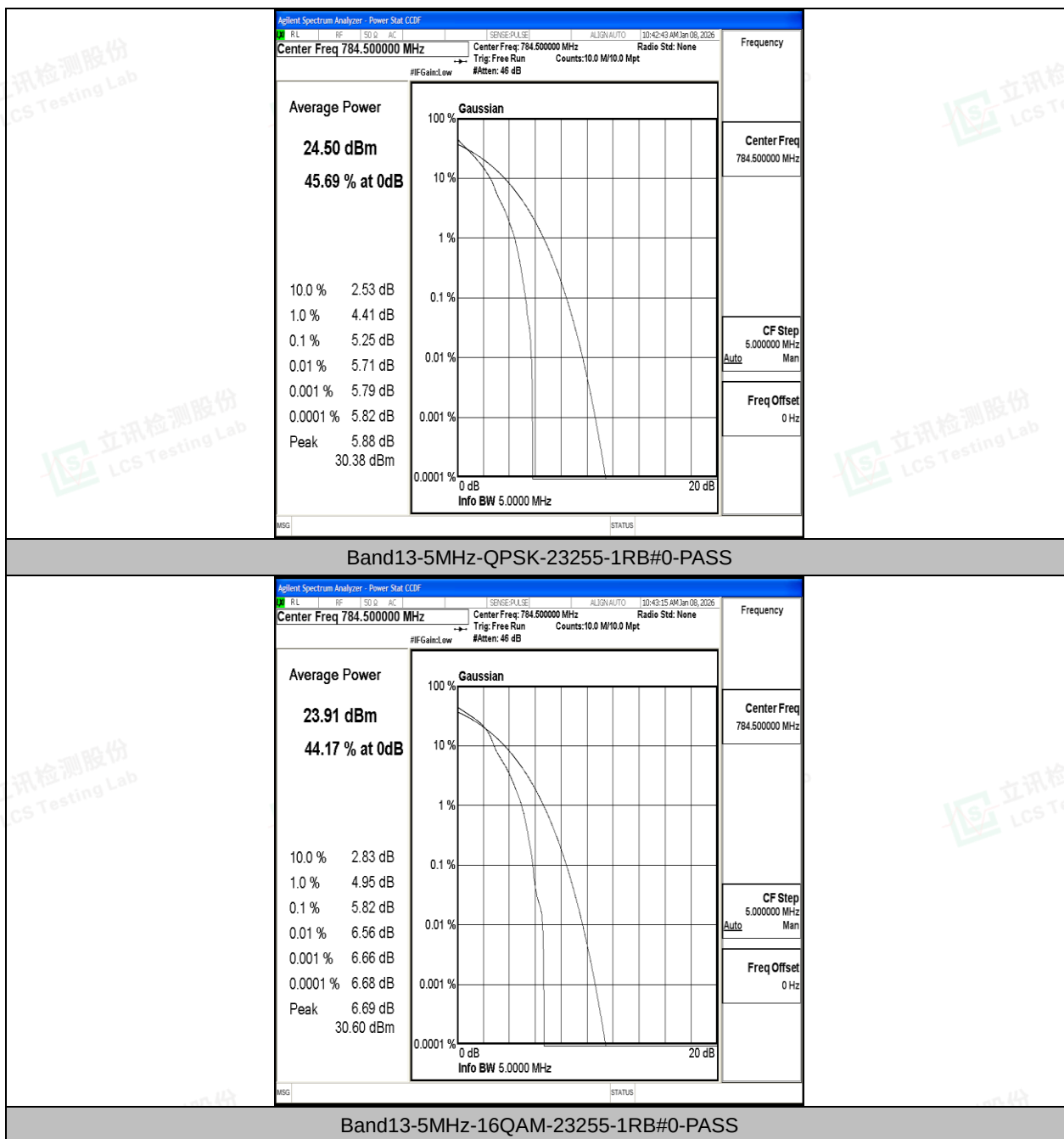


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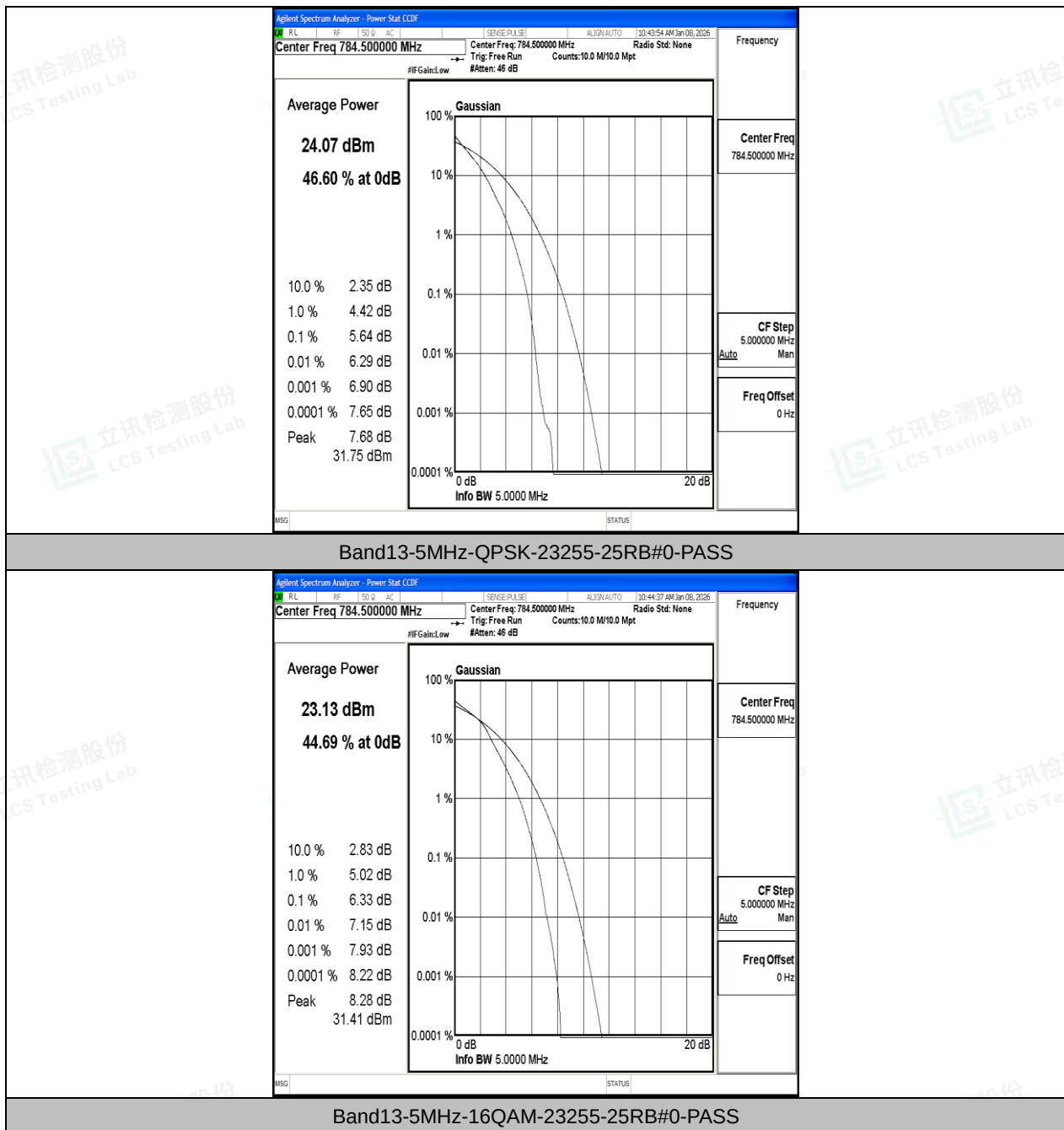


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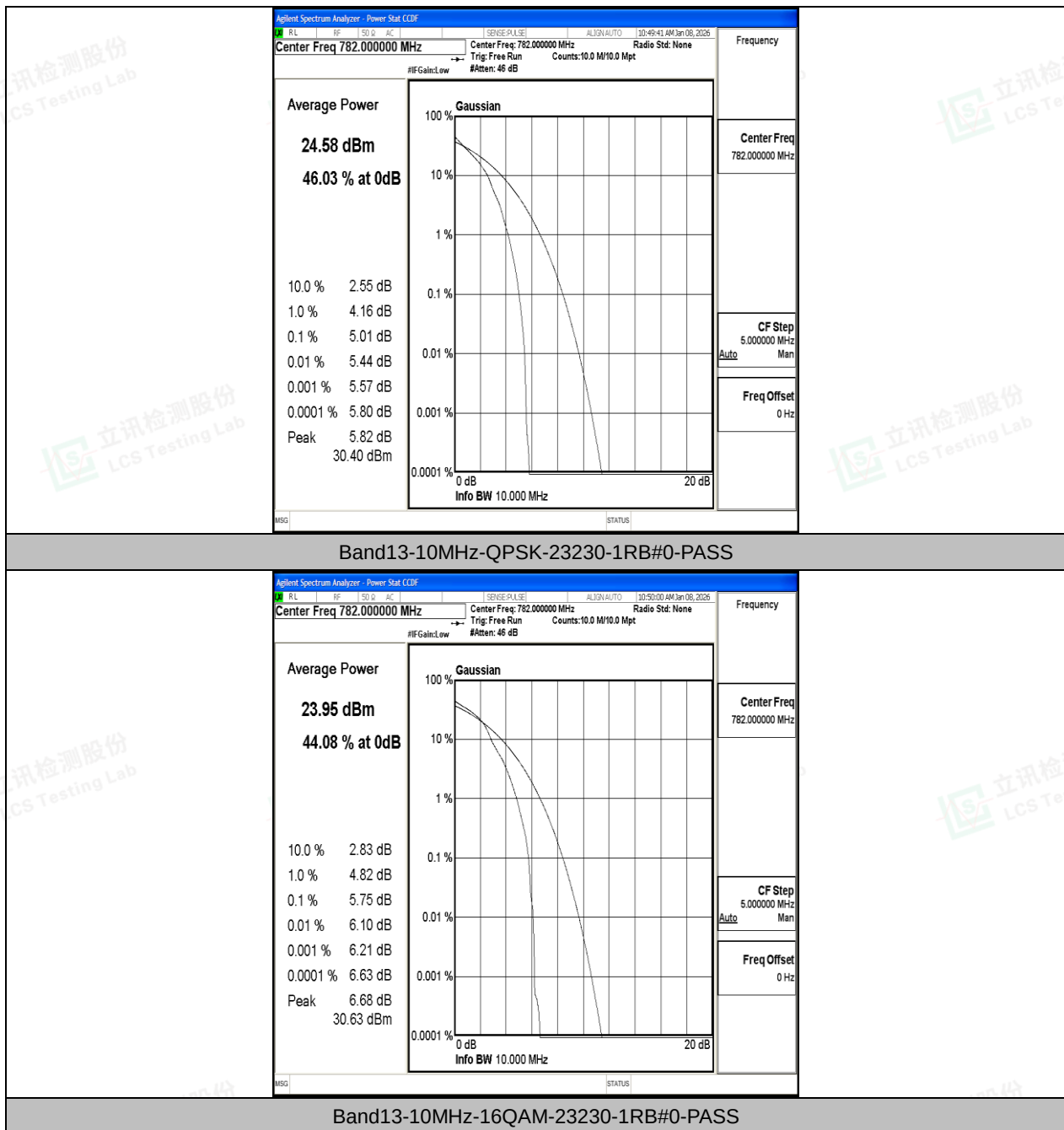


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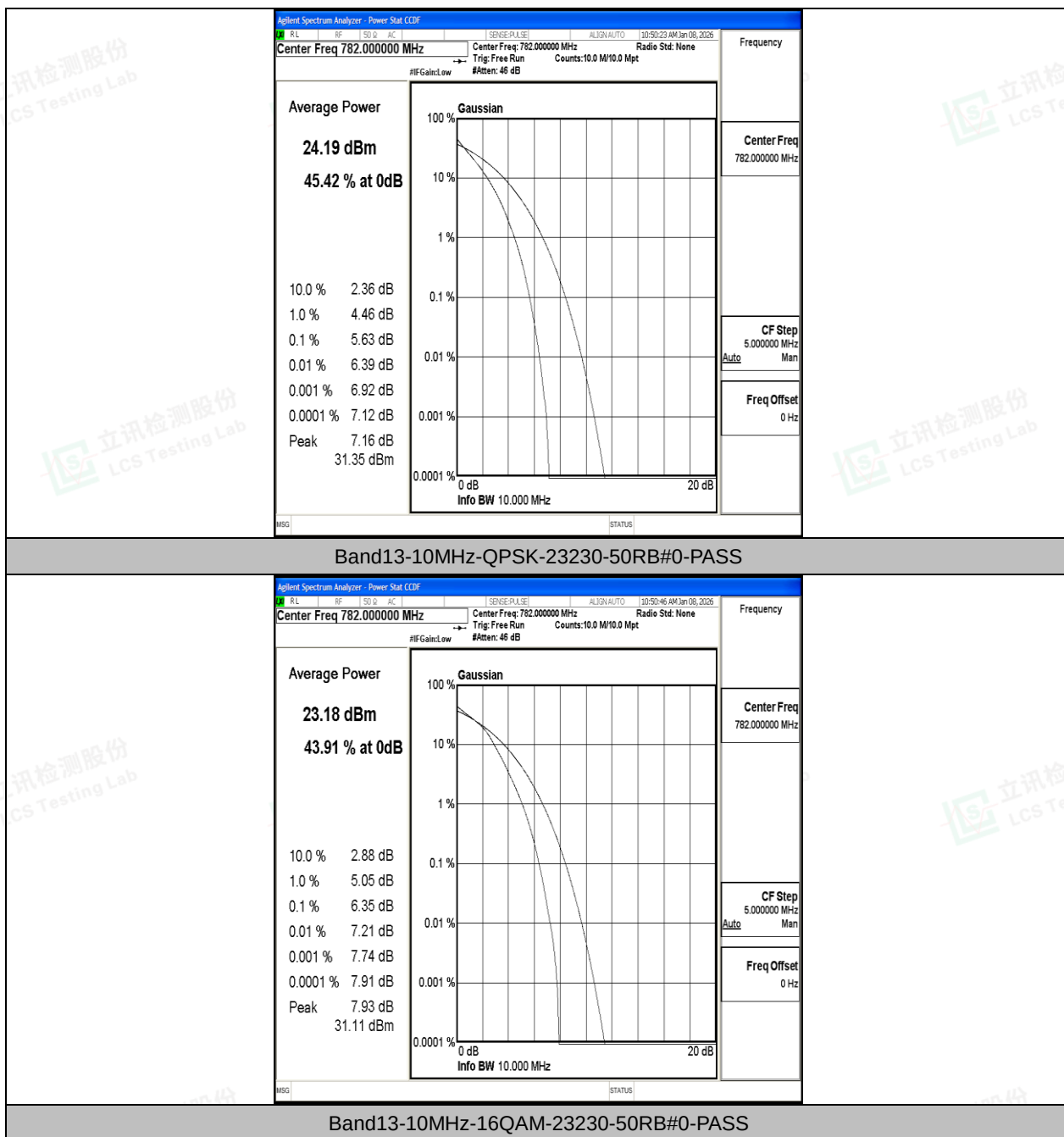


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L.3 26dB Bandwidth and Occupied Bandwidth

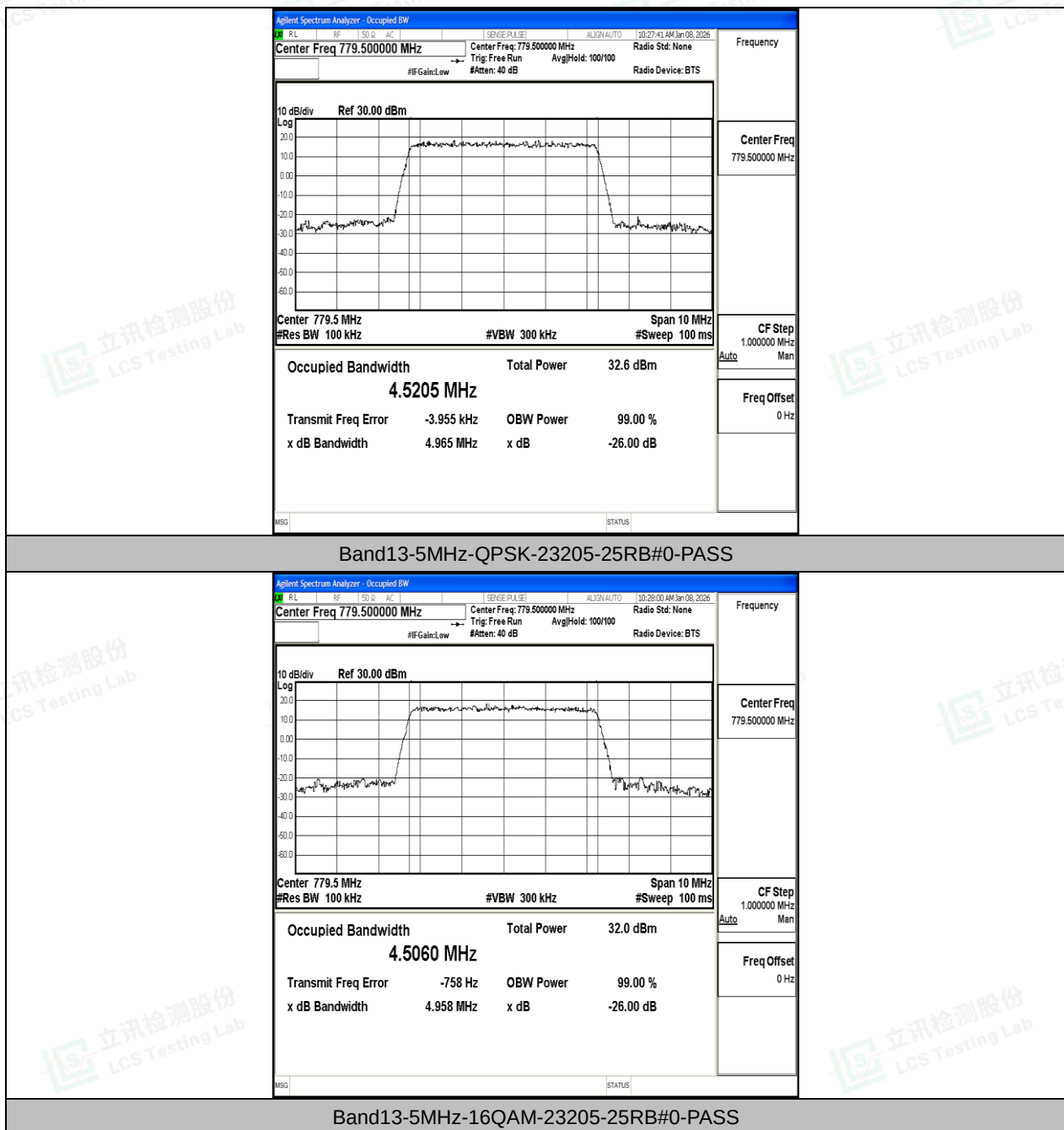
Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band13	5MHz	QPSK	23205	25RB#0	4.5205	4.965	PASS
Band13	5MHz	16QAM	23205	25RB#0	4.5060	4.958	PASS
Band13	5MHz	QPSK	23230	25RB#0	4.5075	5.007	PASS
Band13	5MHz	16QAM	23230	25RB#0	4.5266	4.973	PASS
Band13	5MHz	QPSK	23255	25RB#0	4.5056	4.972	PASS
Band13	5MHz	16QAM	23255	25RB#0	4.5223	4.979	PASS
Band13	10MHz	QPSK	23230	50RB#0	9.0134	9.876	PASS
Band13	10MHz	16QAM	23230	50RB#0	9.0074	9.927	PASS





Test Graphs

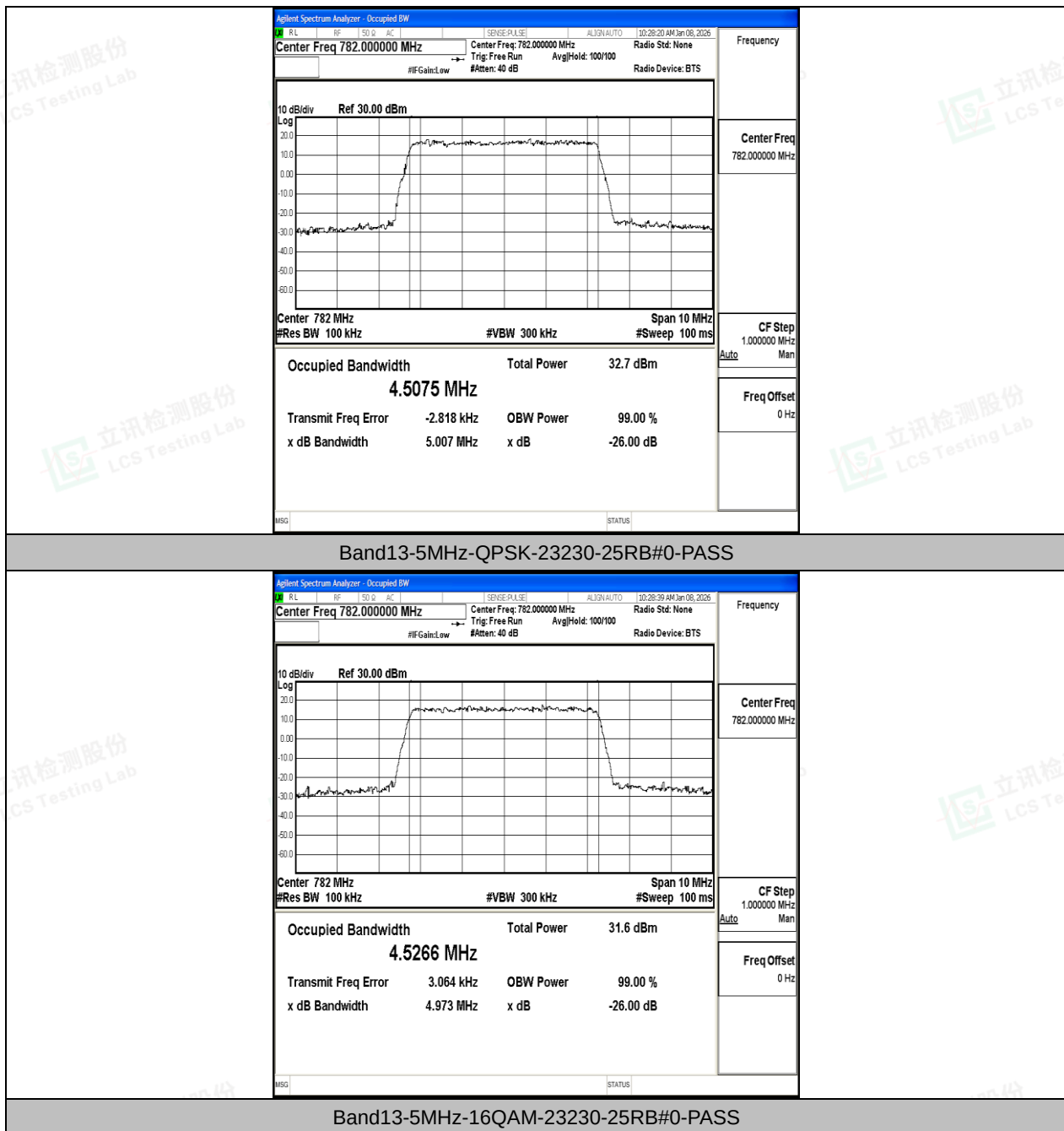


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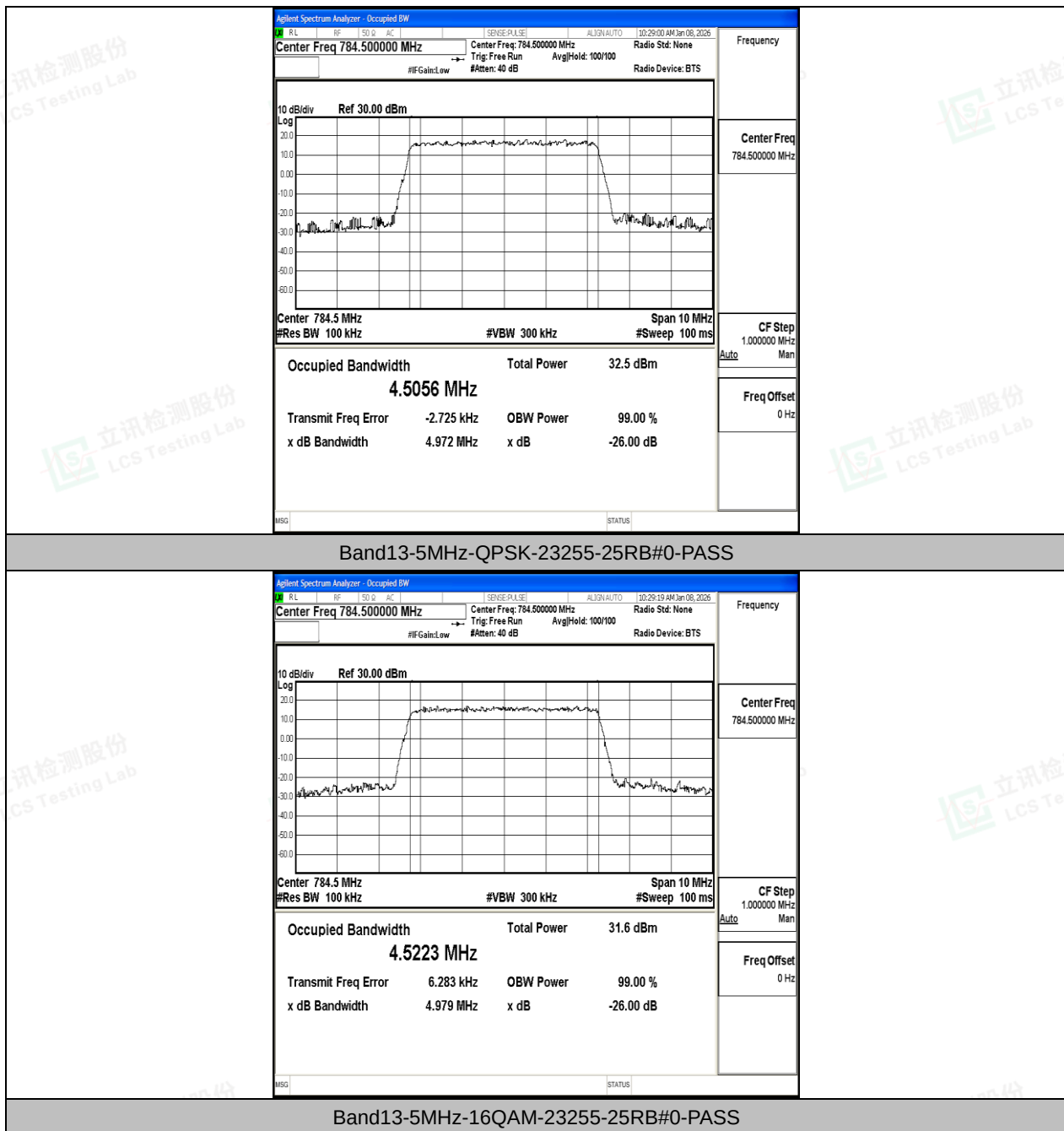


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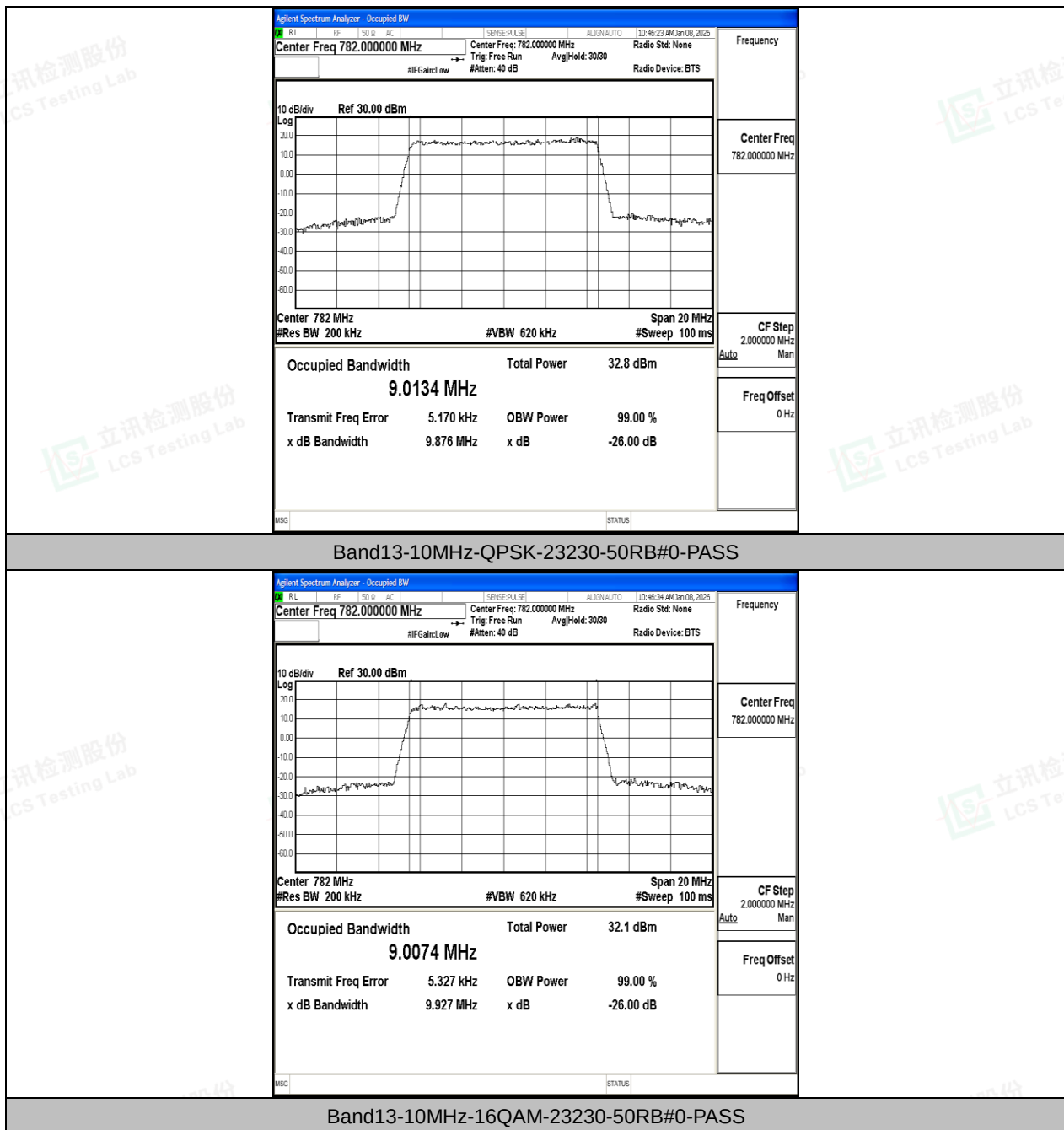


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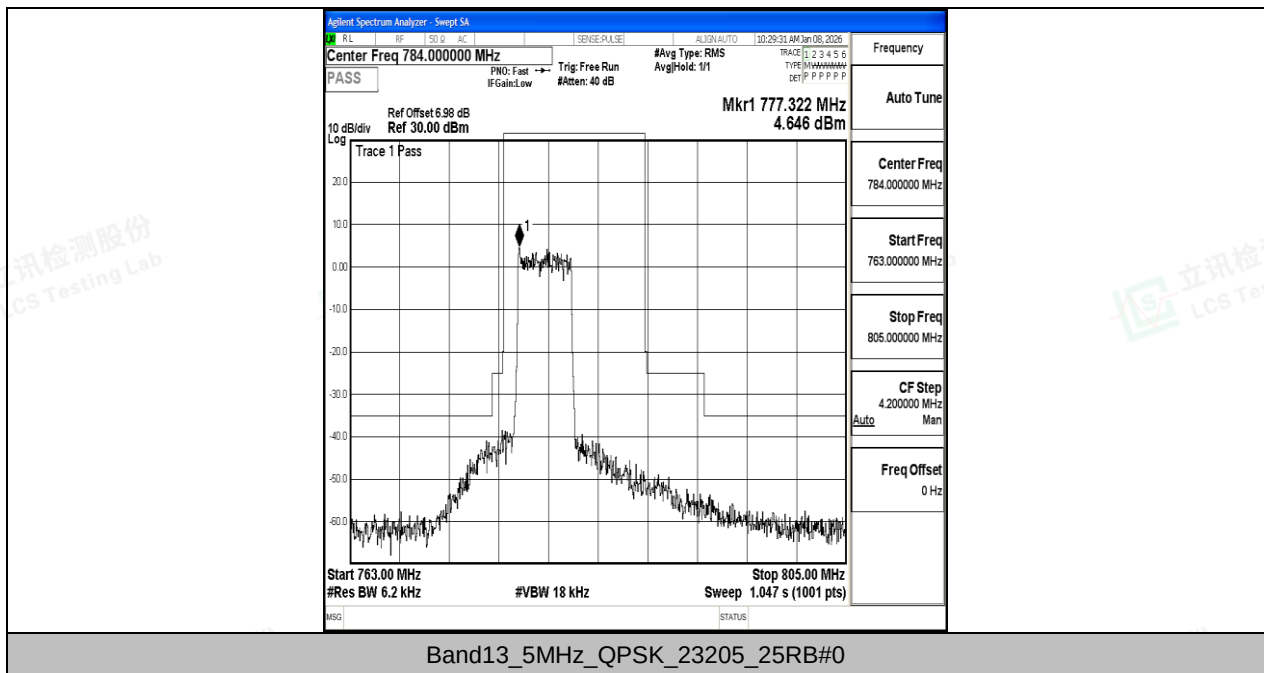


L.4 Band Edge

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Peak Frequency	Result(dBm)	Verdict
Band13	5MHz	QPSK	23205	25RB#0	774.55	-40.94	PASS
Band13	5MHz	16QAM	23205	25RB#0	774.30	-40.72	PASS
Band13	5MHz	QPSK	23255	25RB#0	793.74	-48.82	PASS
Band13	5MHz	16QAM	23255	25RB#0	793.03	-48.71	PASS
Band13	10MHz	QPSK	23230	50RB#0	774.55	-44.24	PASS
Band13	10MHz	16QAM	23230	50RB#0	774.97	-43.73	PASS

Test Graphs

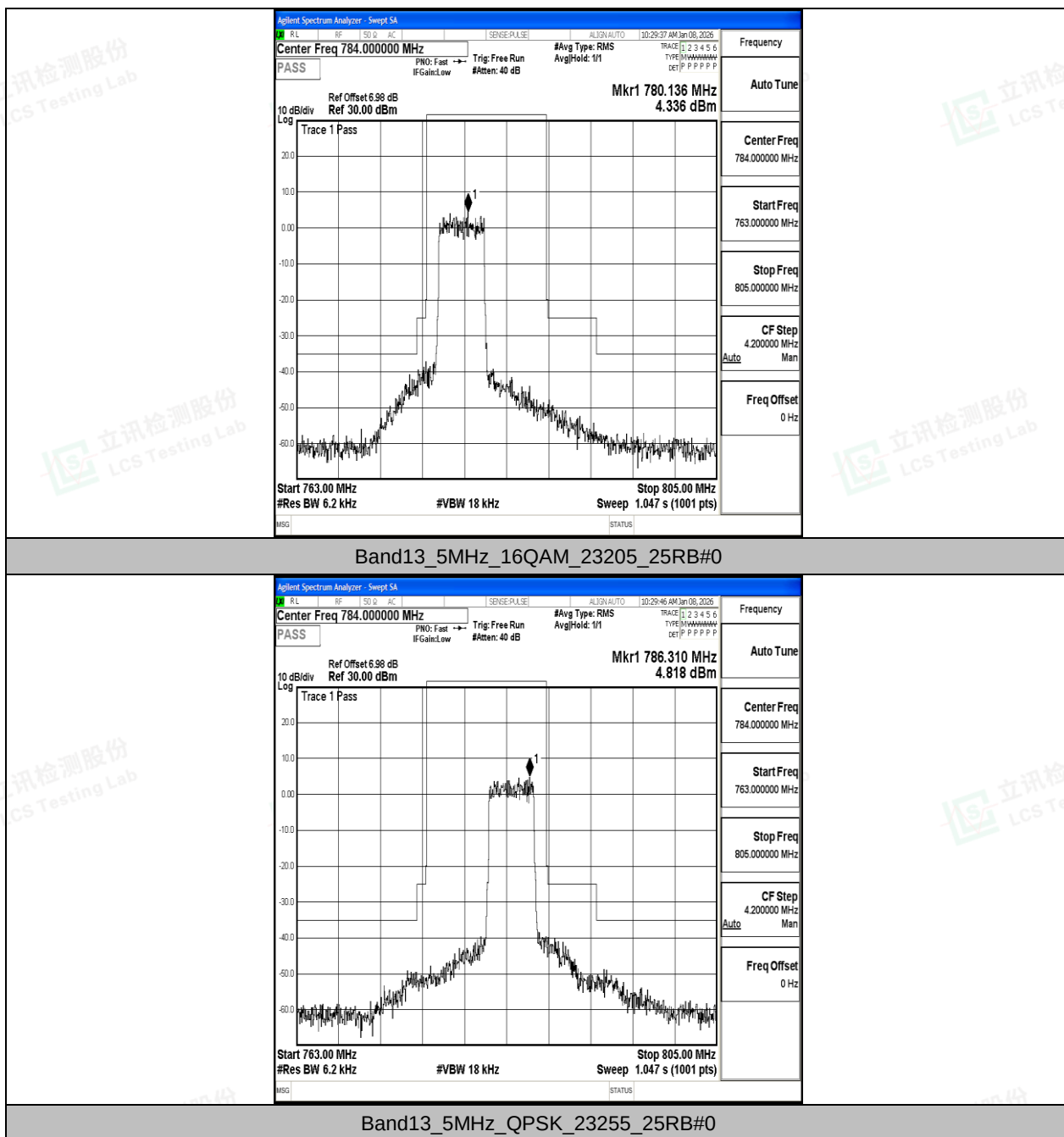


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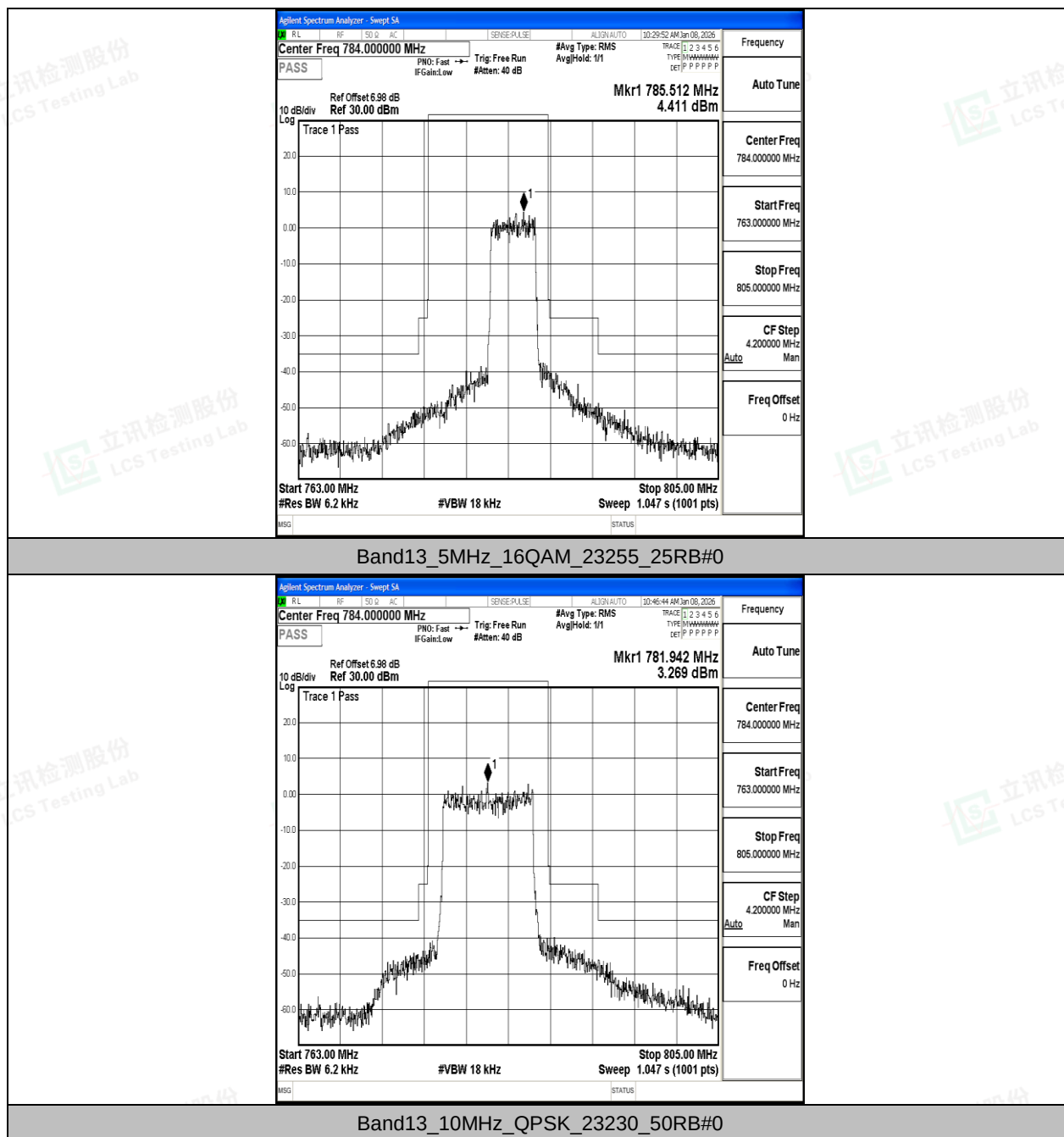


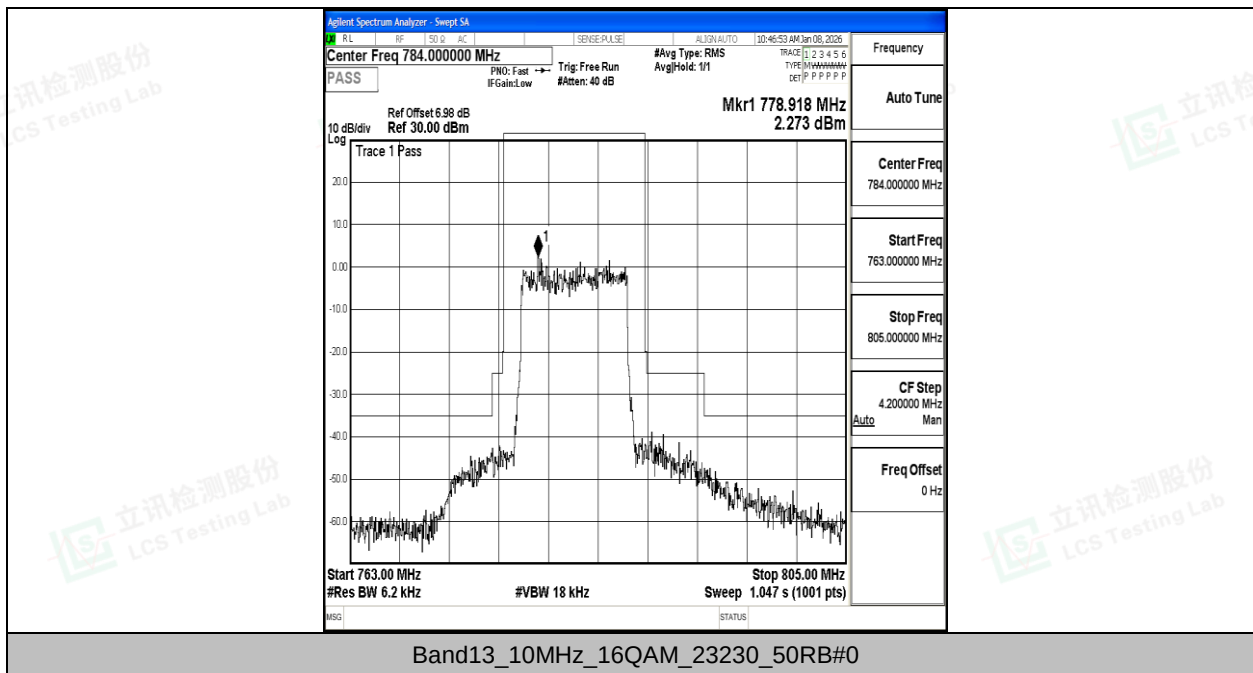
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L.5 Conducted Spurious Emission

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Frequency Range	Result (dBm)	Verdict
Band13	5MHz	QPSK	23205	1RB#0	0.009~0.15	-55.06	PASS
Band13	5MHz	QPSK	23205	1RB#0	0.15~30	-47.23	PASS
Band13	5MHz	QPSK	23205	1RB#0	30~1000	-51.04	PASS
Band13	5MHz	QPSK	23205	1RB#0	1000~3000	-33.94	PASS
Band13	5MHz	QPSK	23205	1RB#0	3000~10000	-35.34	PASS
Band13	5MHz	16QAM	23205	1RB#0	0.009~0.15	-42.12	PASS
Band13	5MHz	16QAM	23205	1RB#0	0.15~30	-45.64	PASS
Band13	5MHz	16QAM	23205	1RB#0	30~1000	-51.23	PASS
Band13	5MHz	16QAM	23205	1RB#0	1000~3000	-33.73	PASS
Band13	5MHz	16QAM	23205	1RB#0	3000~10000	-34.62	PASS
Band13	5MHz	QPSK	23230	1RB#0	0.009~0.15	-40.02	PASS
Band13	5MHz	QPSK	23230	1RB#0	0.15~30	-46.56	PASS
Band13	5MHz	QPSK	23230	1RB#0	30~1000	-51.68	PASS
Band13	5MHz	QPSK	23230	1RB#0	1000~3000	-35.15	PASS
Band13	5MHz	QPSK	23230	1RB#0	3000~10000	-35.48	PASS
Band13	5MHz	16QAM	23230	1RB#0	0.009~0.15	-52.59	PASS
Band13	5MHz	16QAM	23230	1RB#0	0.15~30	-44.12	PASS
Band13	5MHz	16QAM	23230	1RB#0	30~1000	-51.86	PASS
Band13	5MHz	16QAM	23230	1RB#0	1000~3000	-34.61	PASS
Band13	5MHz	16QAM	23230	1RB#0	3000~10000	-35.36	PASS
Band13	5MHz	QPSK	23255	1RB#0	0.009~0.15	-42.21	PASS
Band13	5MHz	QPSK	23255	1RB#0	0.15~30	-48.89	PASS
Band13	5MHz	QPSK	23255	1RB#0	30~1000	-51.64	PASS
Band13	5MHz	QPSK	23255	1RB#0	1000~3000	-34.27	PASS
Band13	5MHz	QPSK	23255	1RB#0	3000~10000	-35.35	PASS
Band13	5MHz	16QAM	23255	1RB#0	0.009~0.15	-43.46	PASS
Band13	5MHz	16QAM	23255	1RB#0	0.15~30	-46.83	PASS
Band13	5MHz	16QAM	23255	1RB#0	30~1000	-51.10	PASS
Band13	5MHz	16QAM	23255	1RB#0	1000~3000	-32.50	PASS
Band13	5MHz	16QAM	23255	1RB#0	3000~10000	-34.96	PASS
Band13	10MHz	QPSK	23230	1RB#0	0.009~0.15	-53.37	PASS
Band13	10MHz	QPSK	23230	1RB#0	0.15~30	-46.30	PASS
Band13	10MHz	QPSK	23230	1RB#0	30~1000	-51.96	PASS
Band13	10MHz	QPSK	23230	1RB#0	1000~3000	-32.64	PASS
Band13	10MHz	QPSK	23230	1RB#0	3000~10000	-34.62	PASS
Band13	10MHz	16QAM	23230	1RB#0	0.009~0.15	-58.31	PASS



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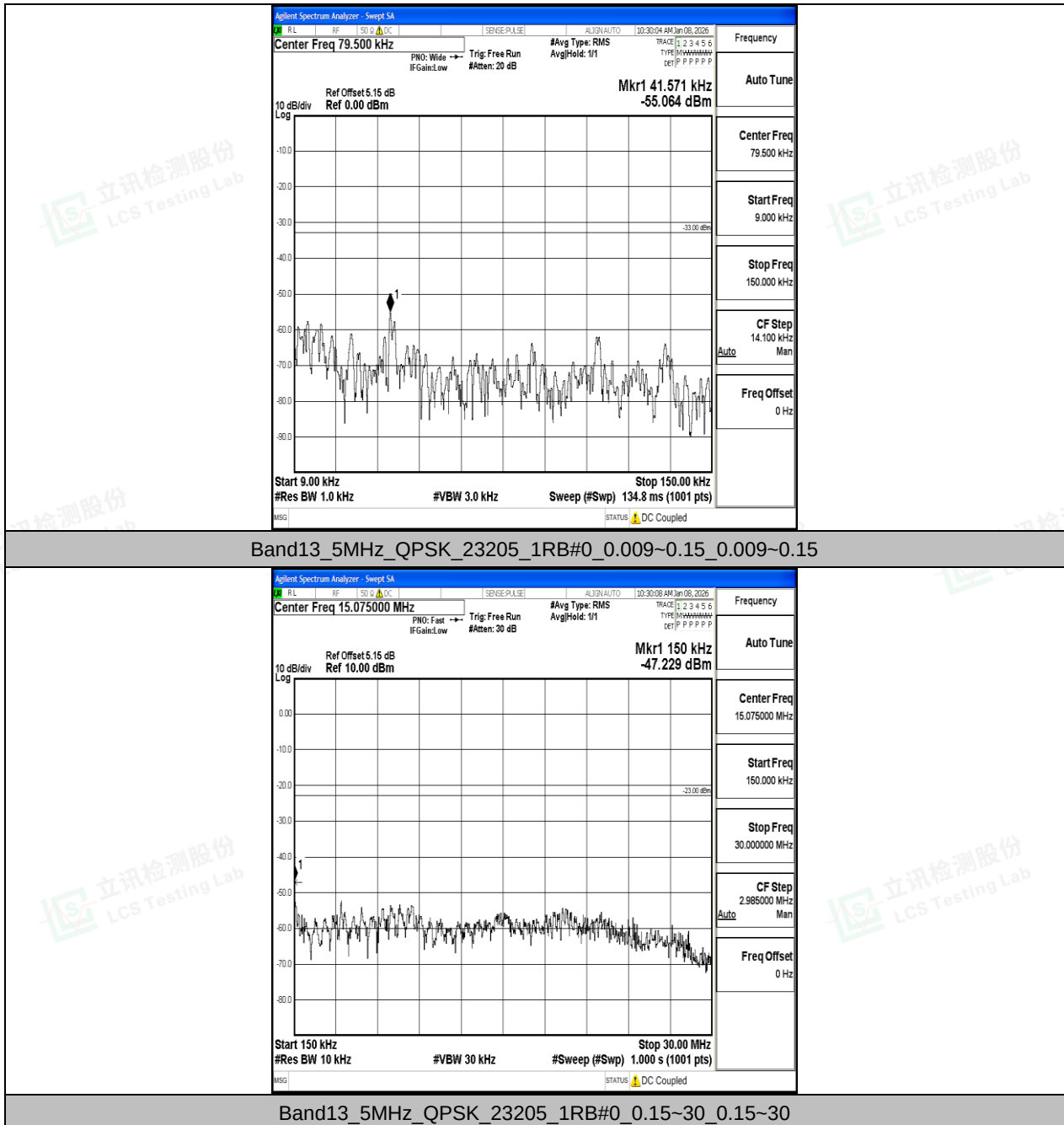
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Band13	10MHz	16QAM	23230	1RB#0	0.15~30	-43.70	PASS
Band13	10MHz	16QAM	23230	1RB#0	30~1000	-50.96	PASS
Band13	10MHz	16QAM	23230	1RB#0	1000~3000	-34.67	PASS
Band13	10MHz	16QAM	23230	1RB#0	3000~10000	-34.92	PASS

Test Graphs

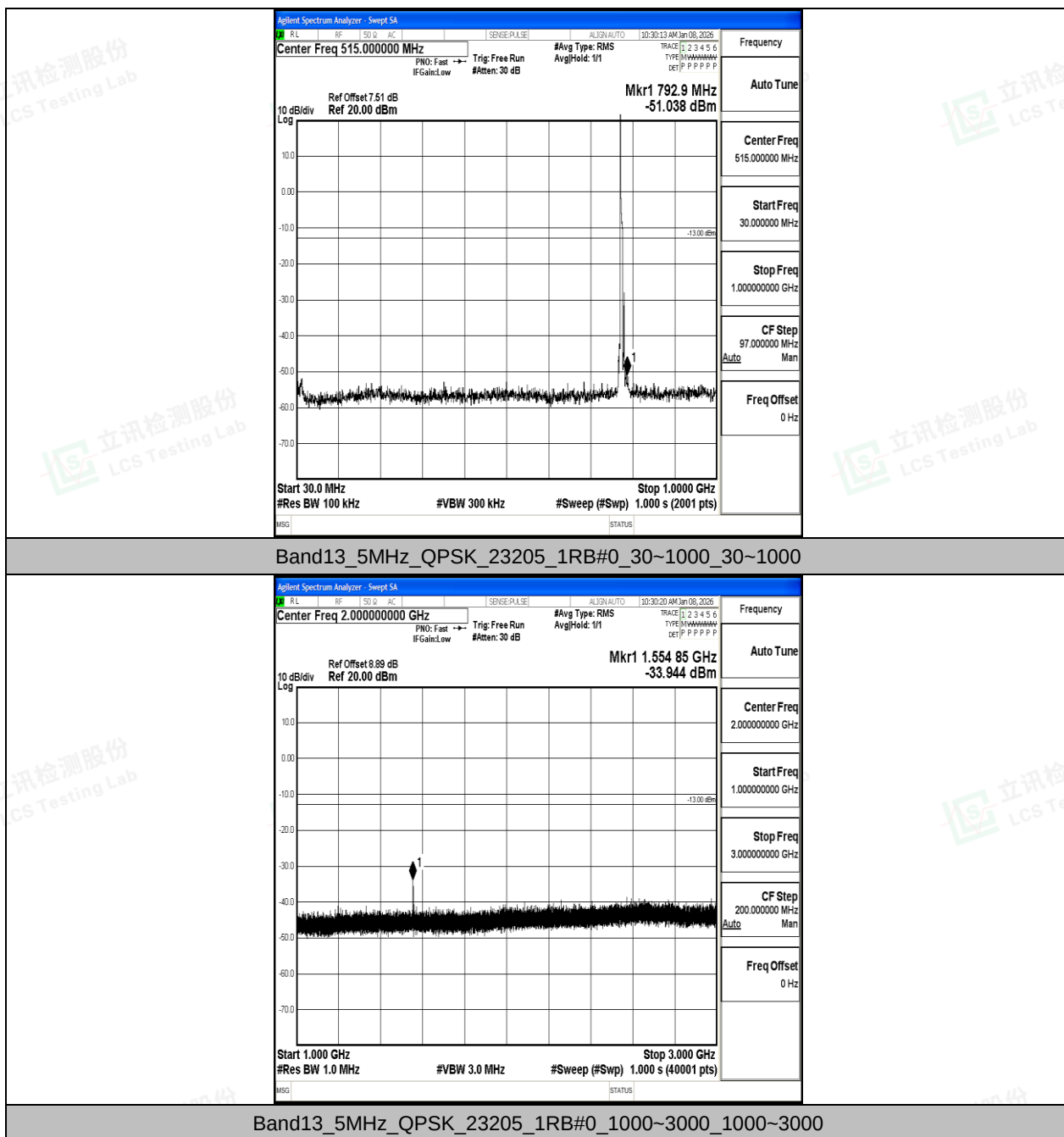


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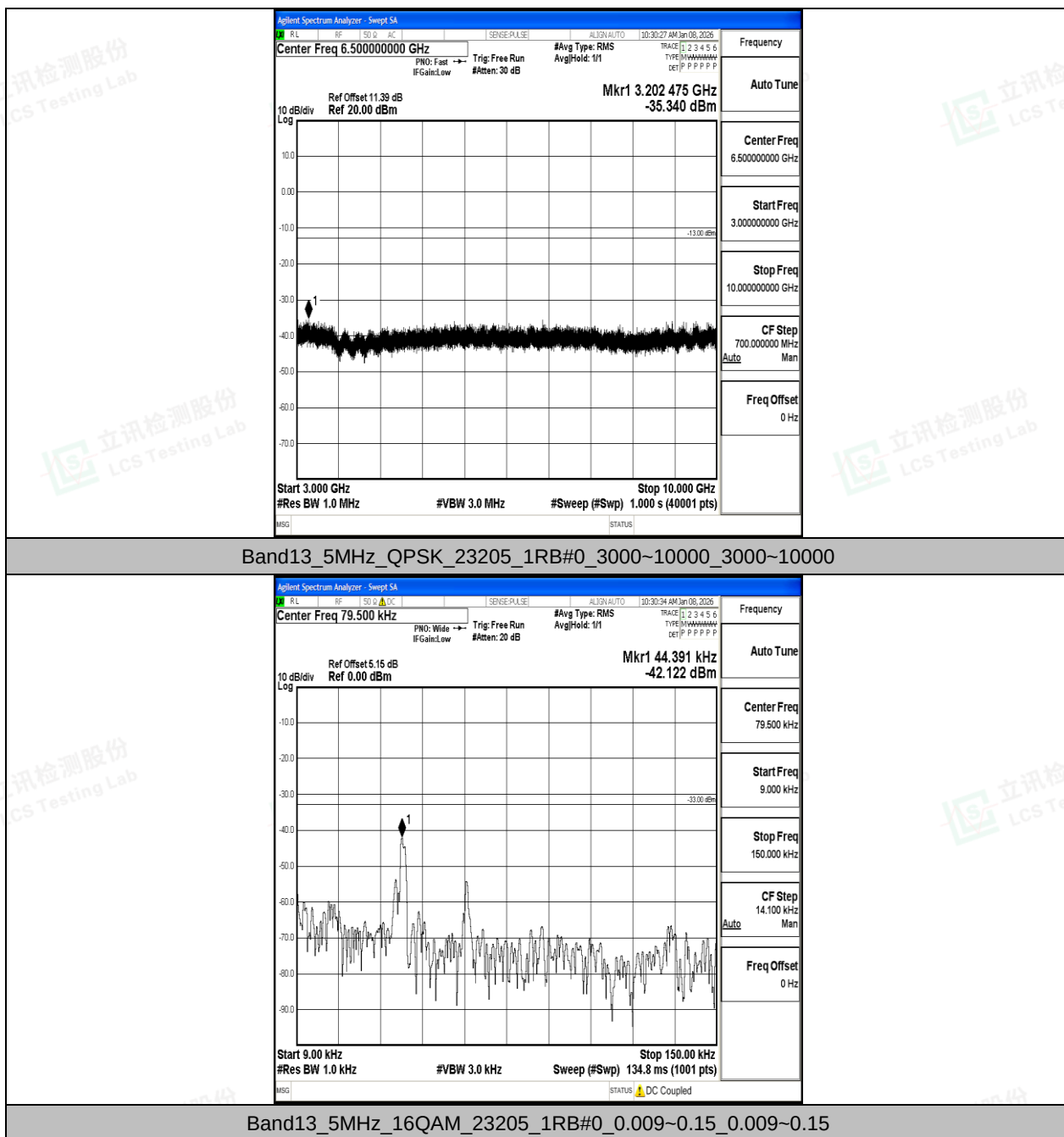


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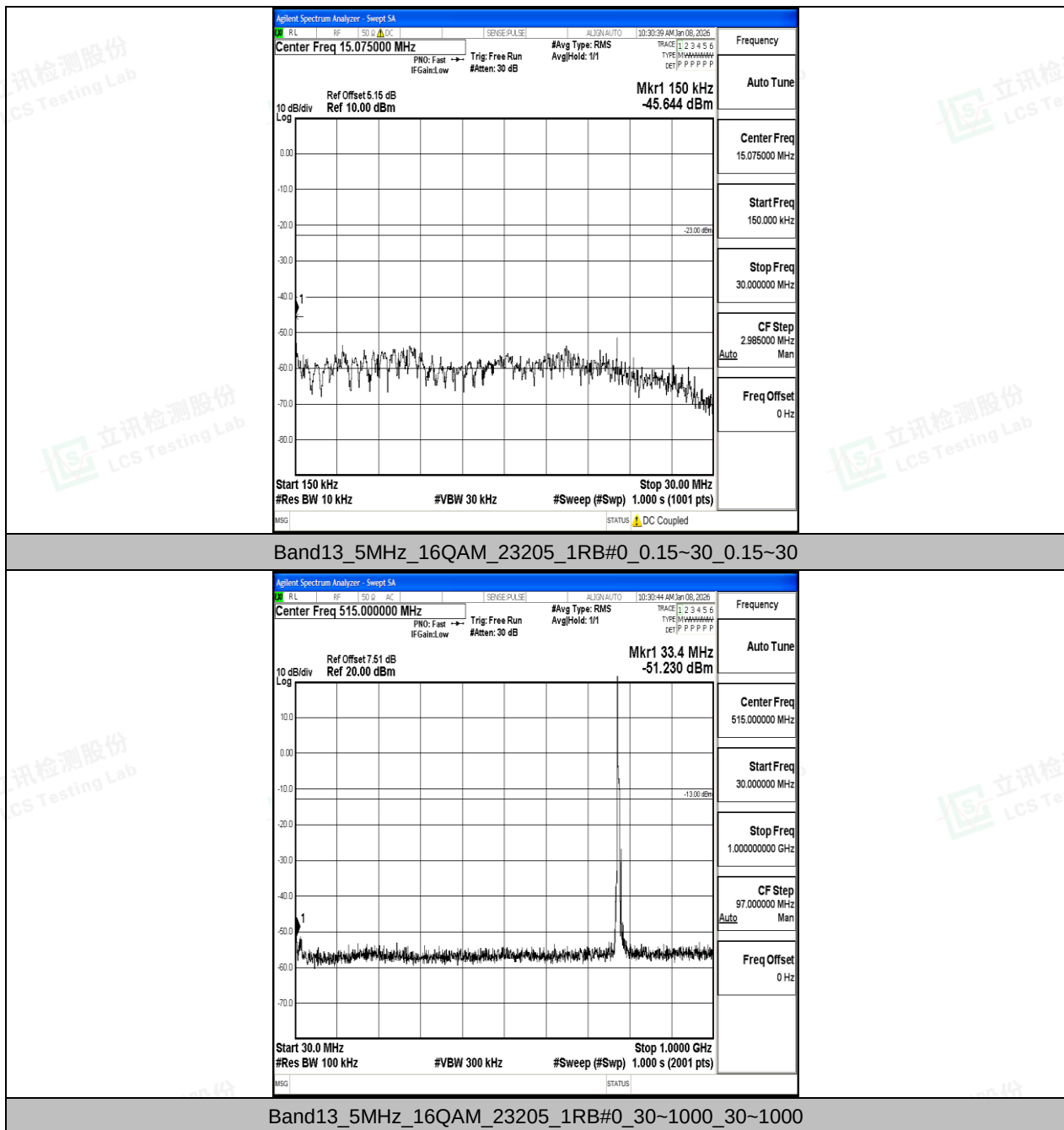


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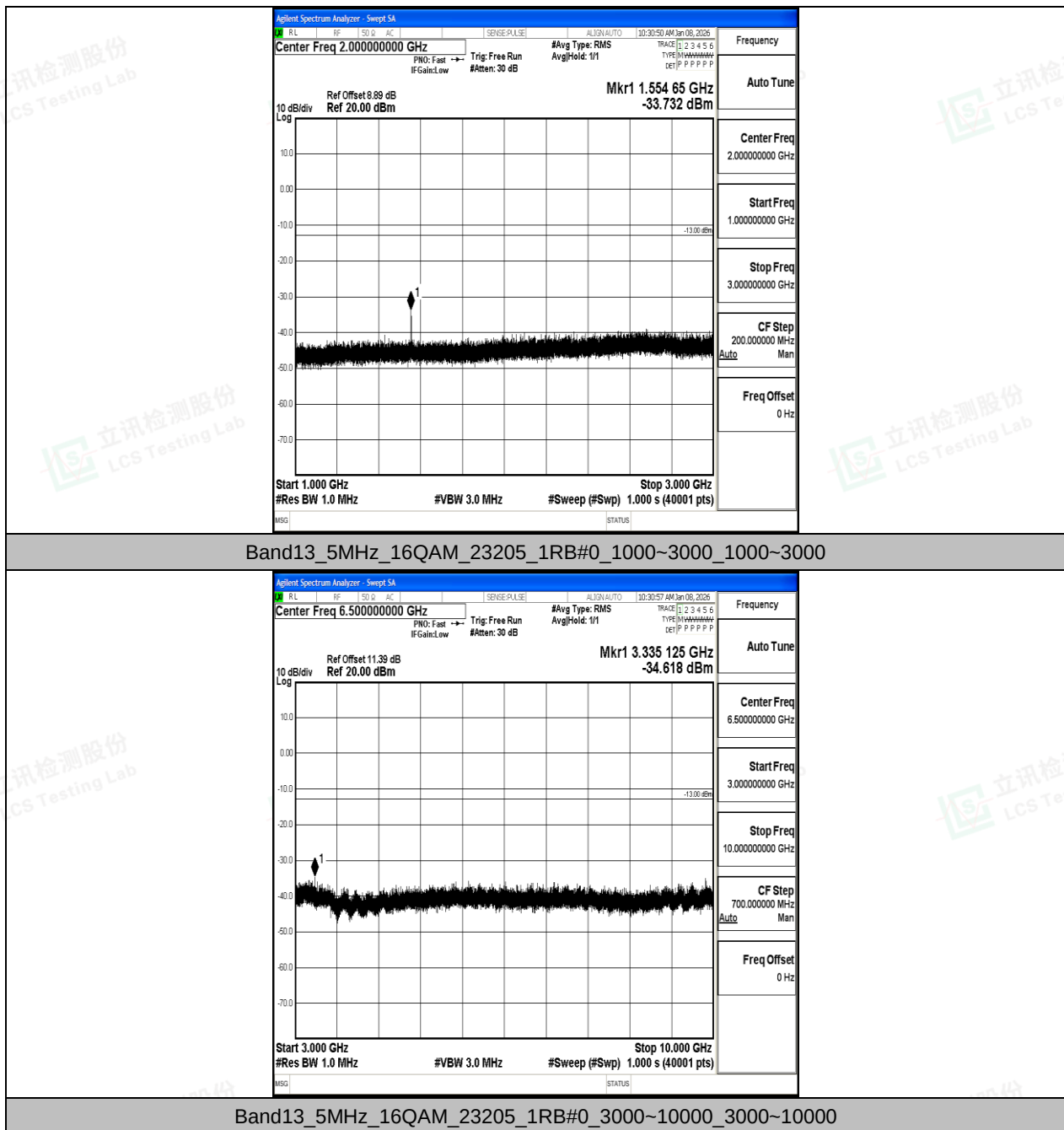


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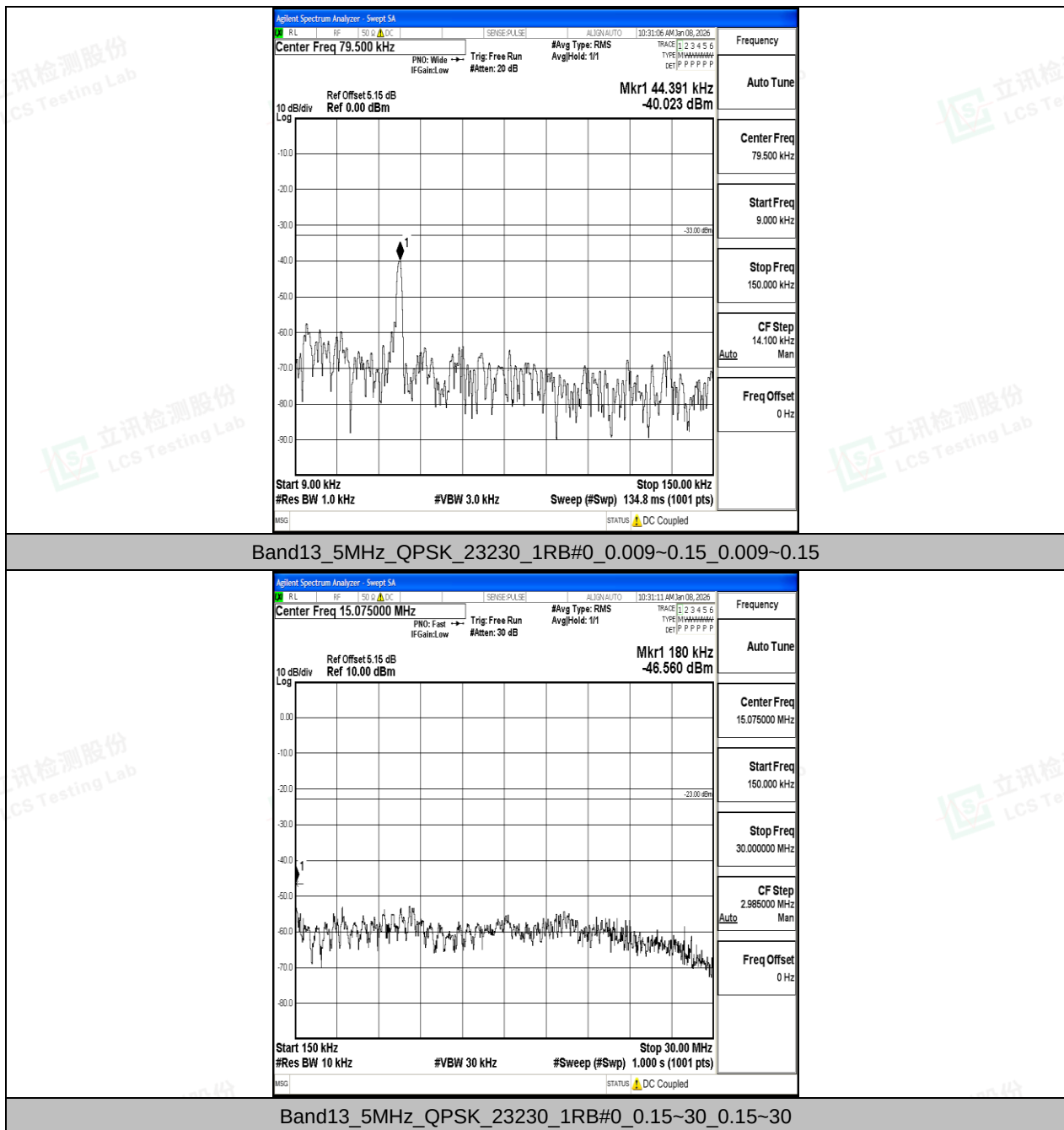


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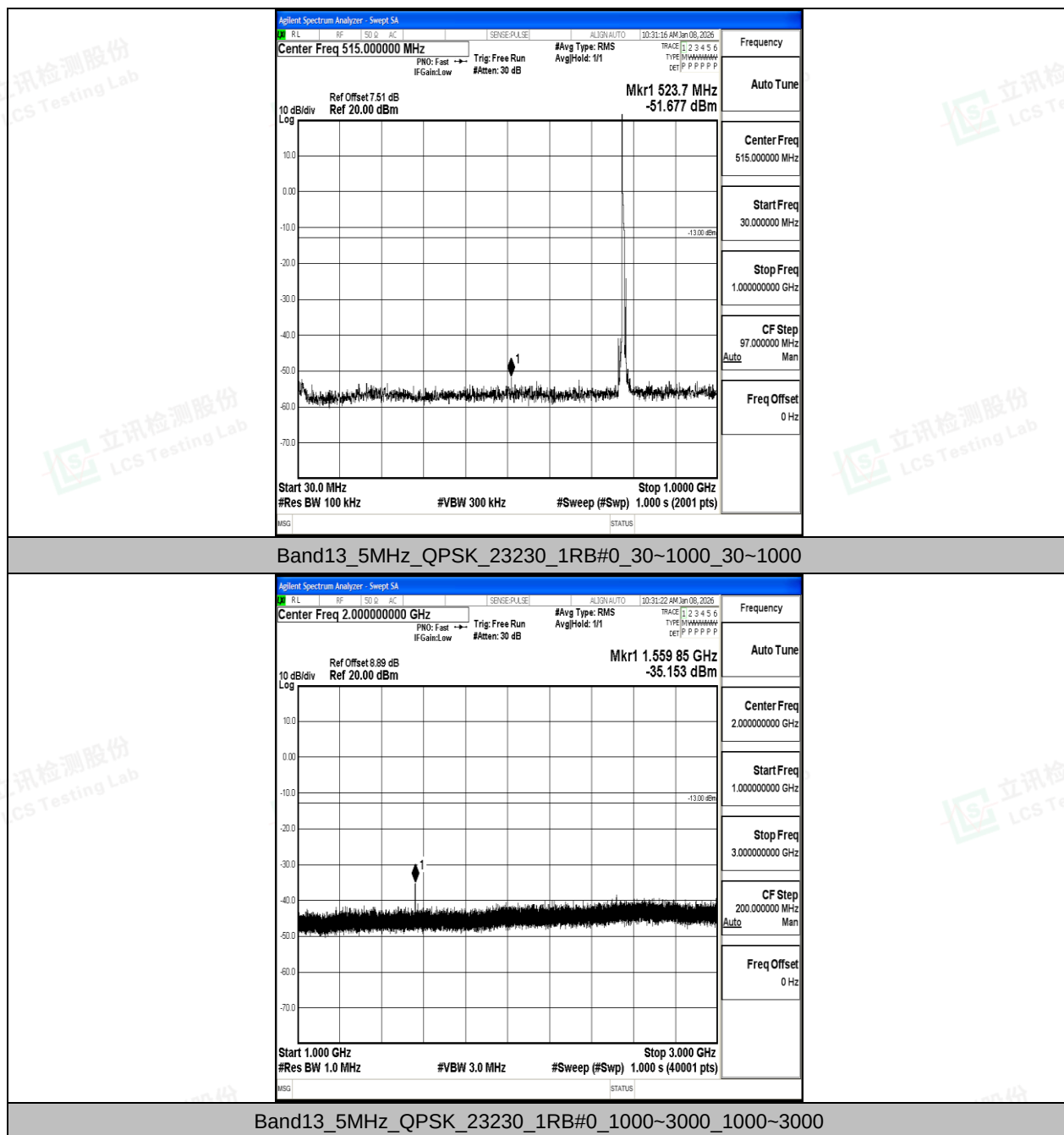


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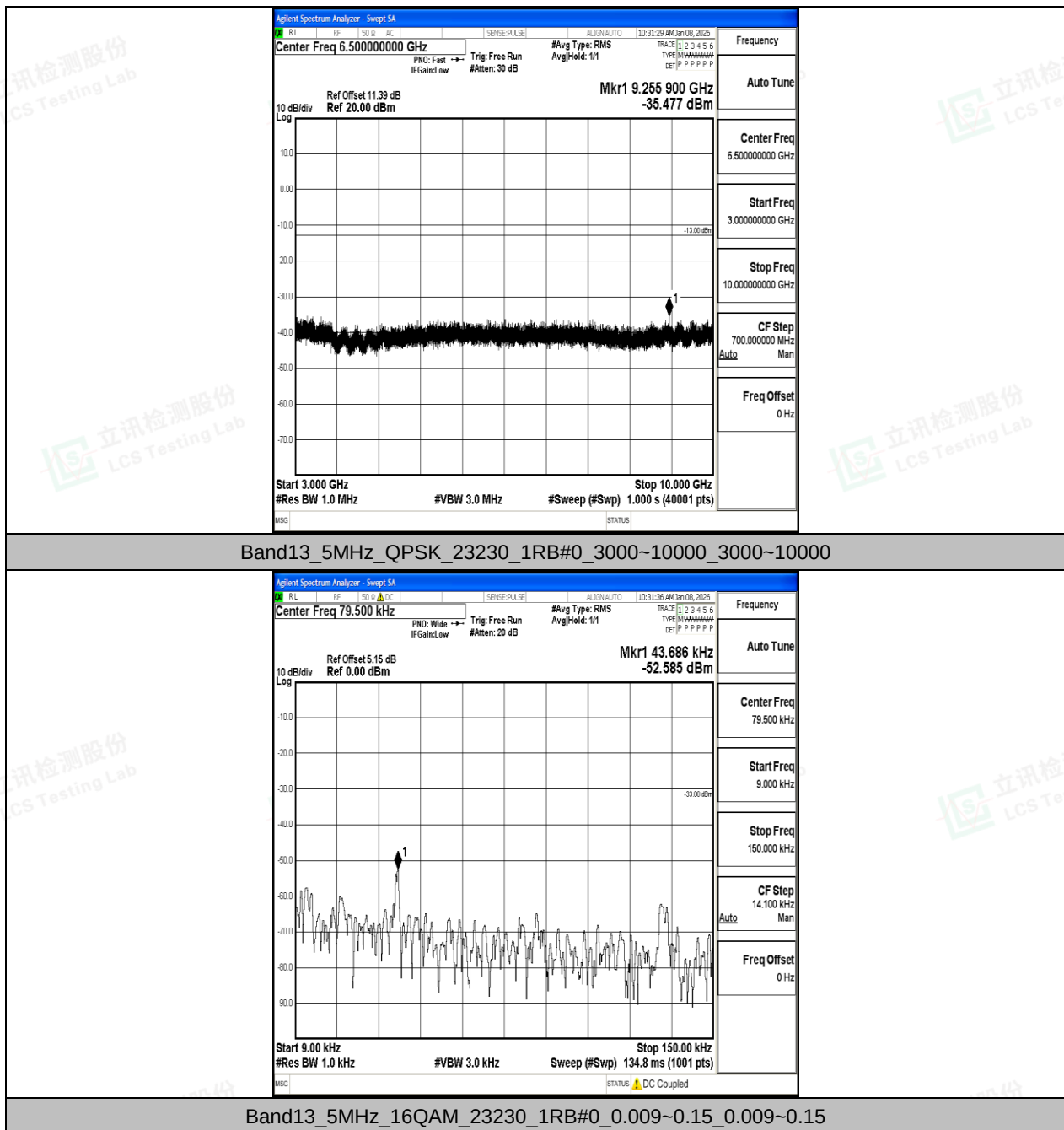


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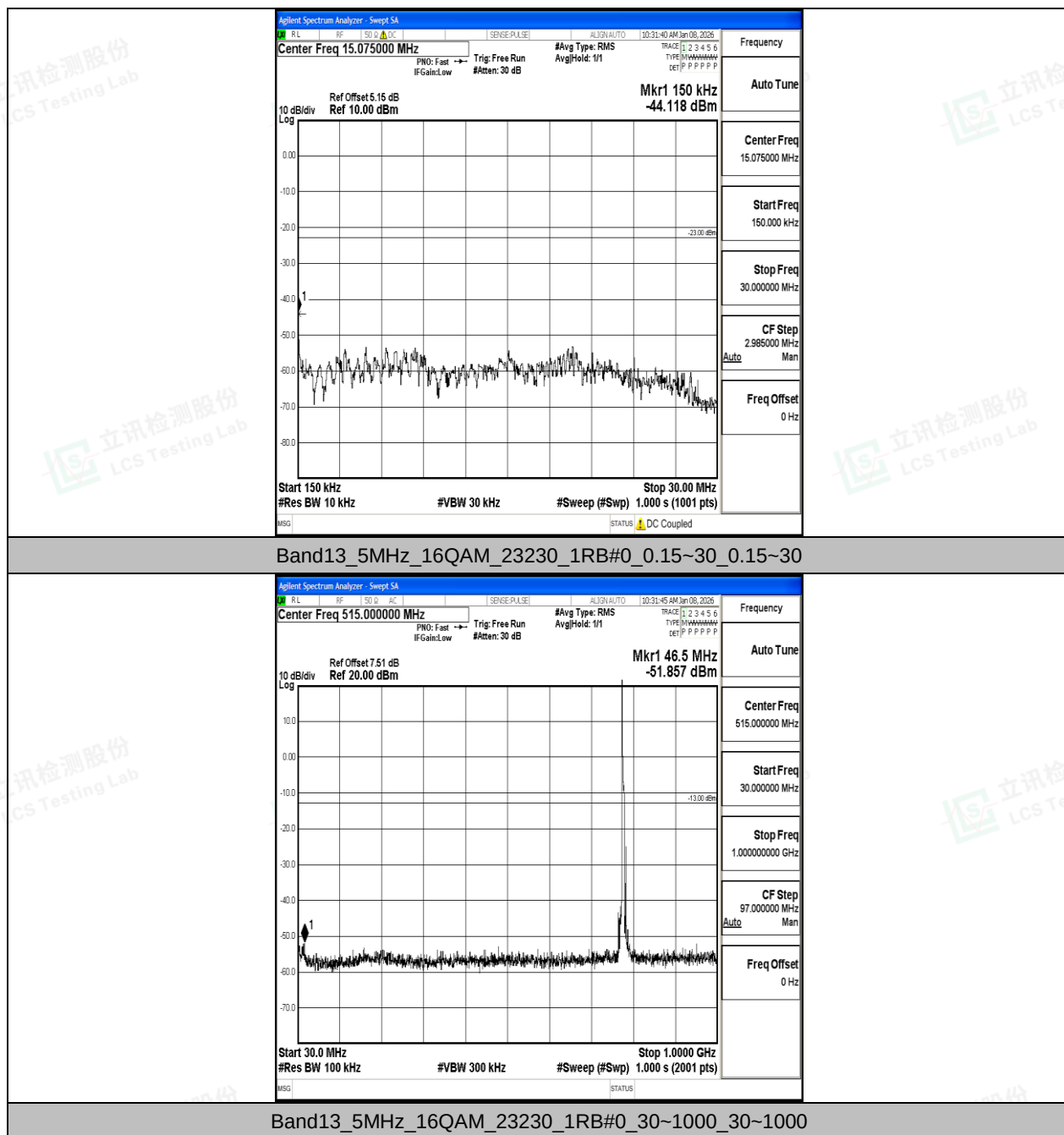


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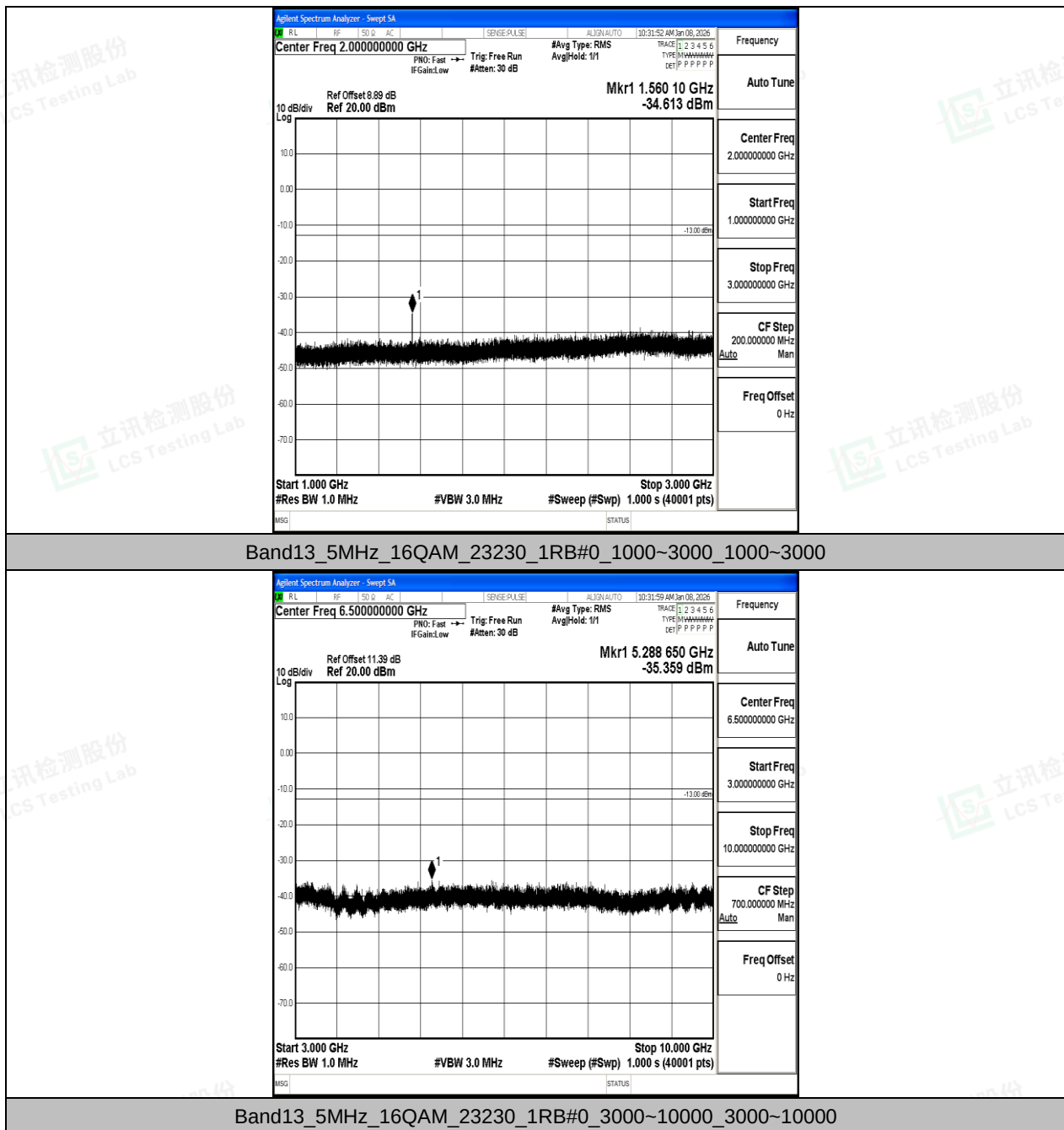


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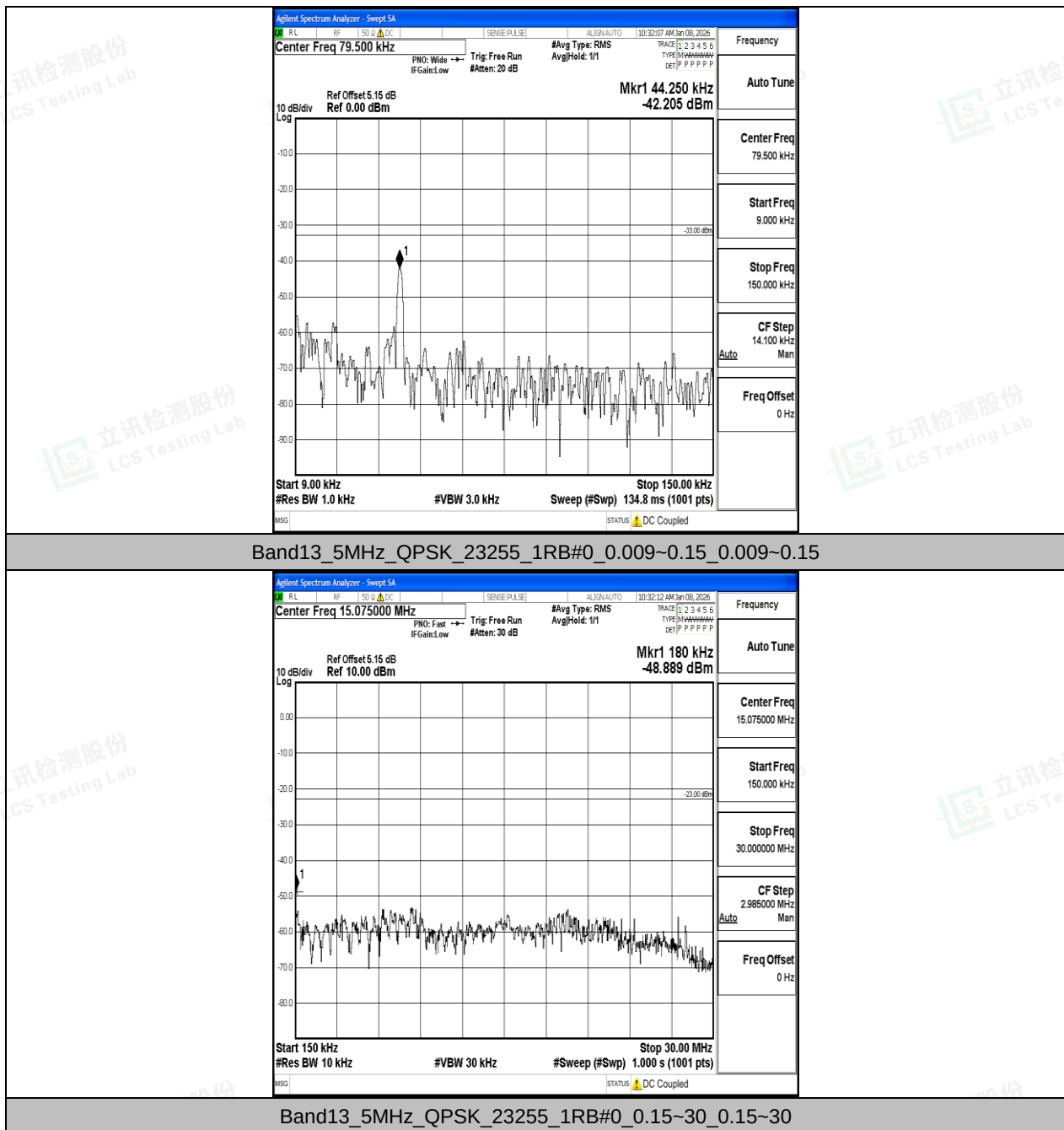


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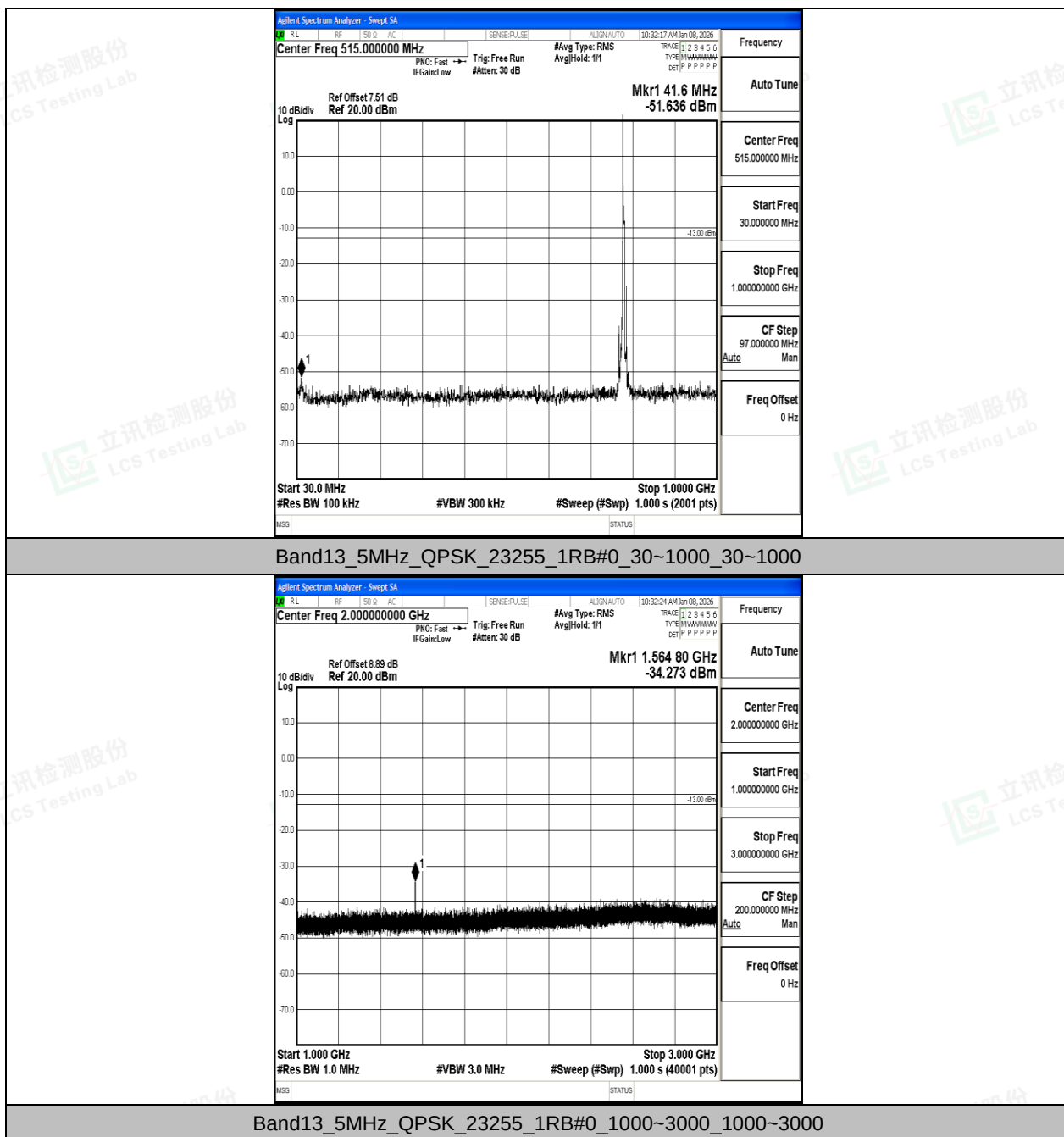


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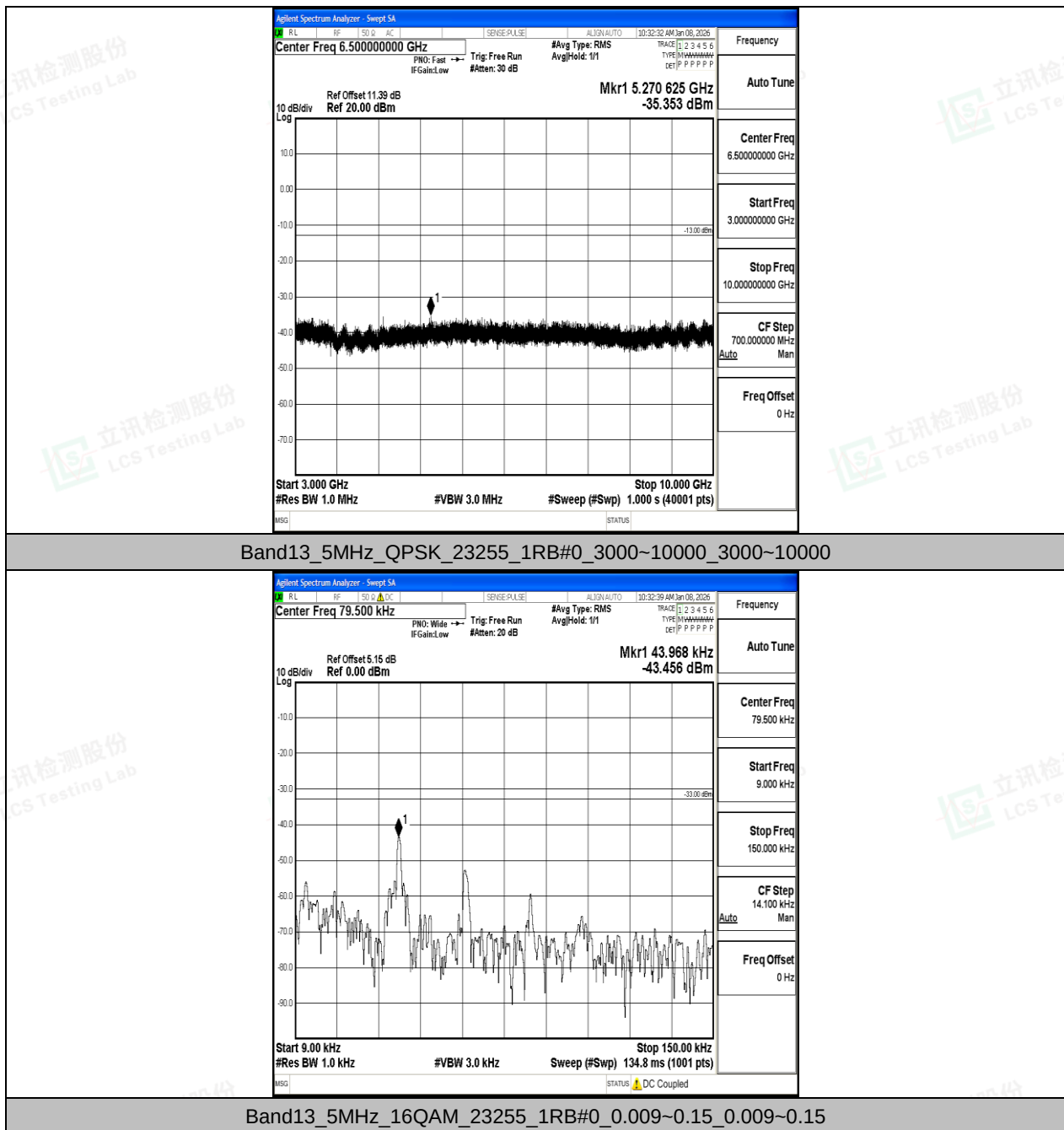


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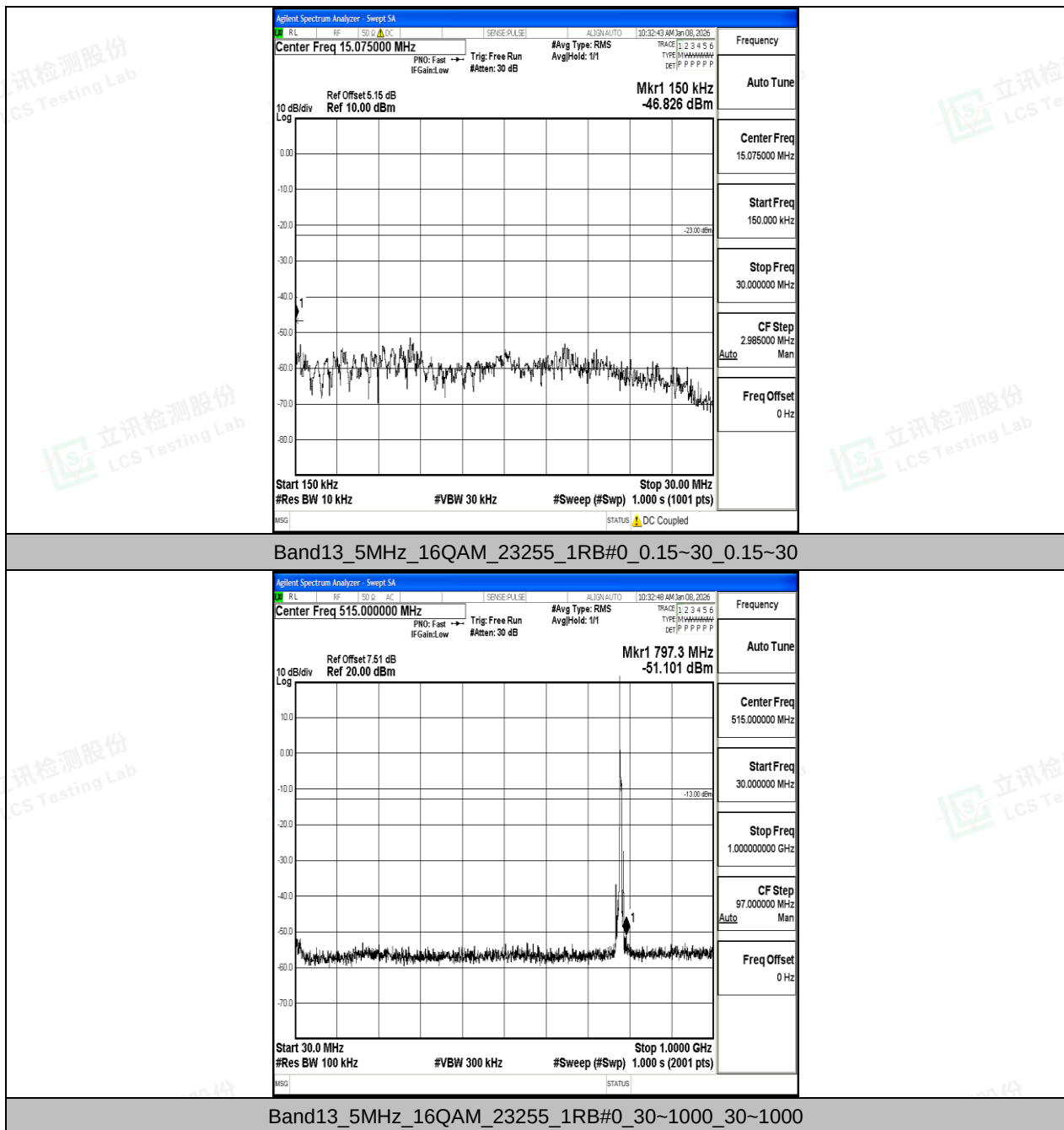


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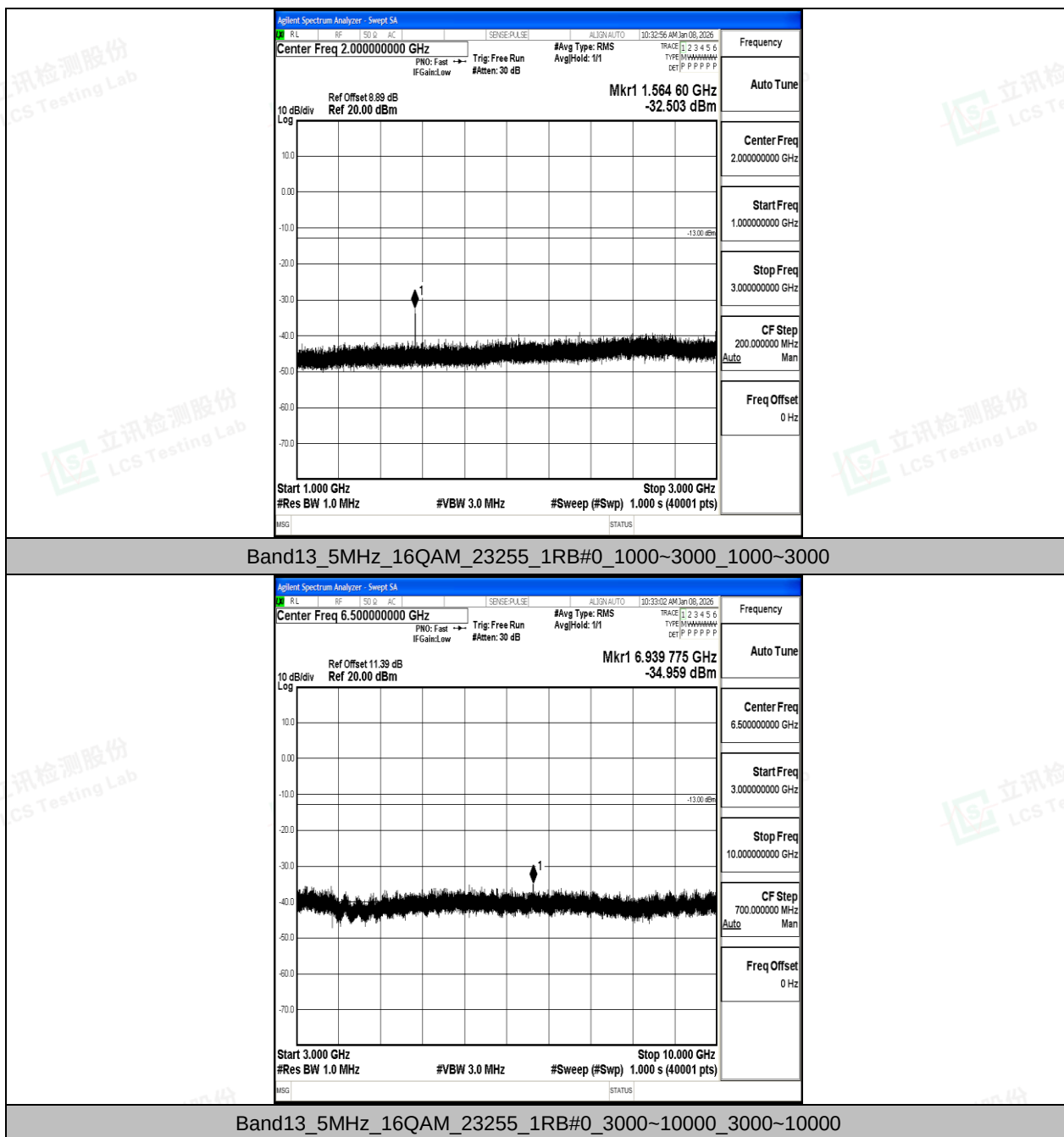


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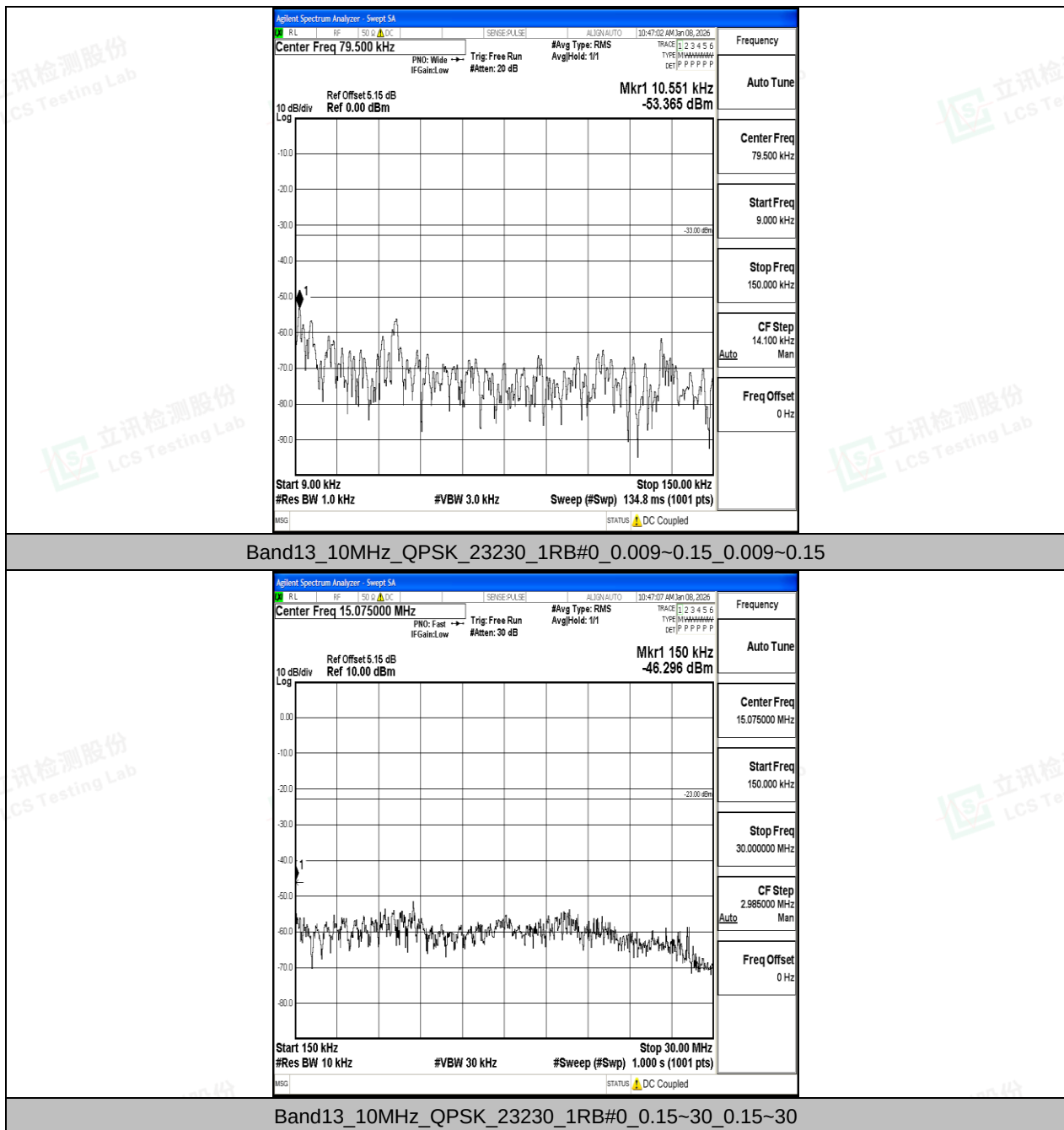


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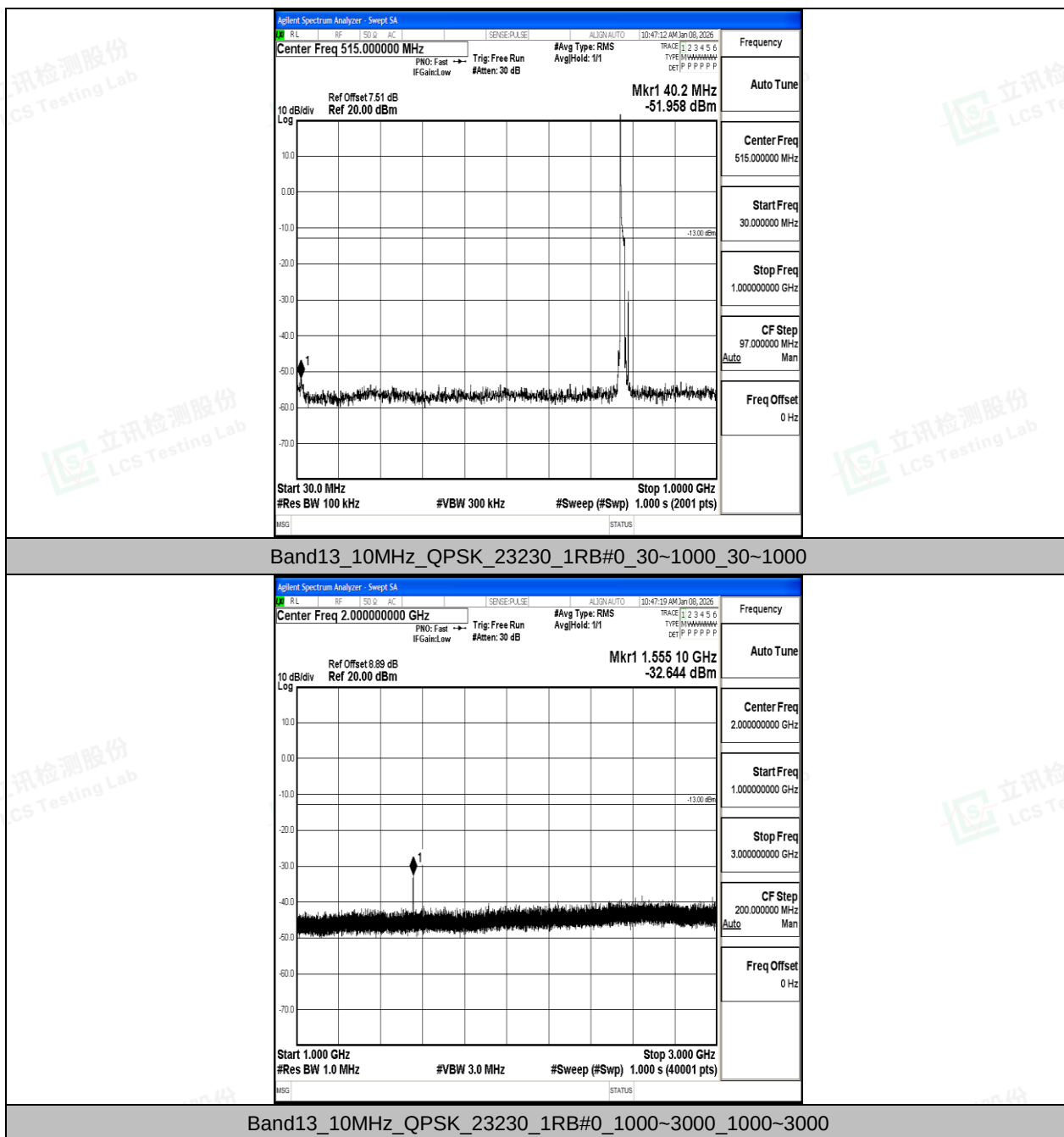


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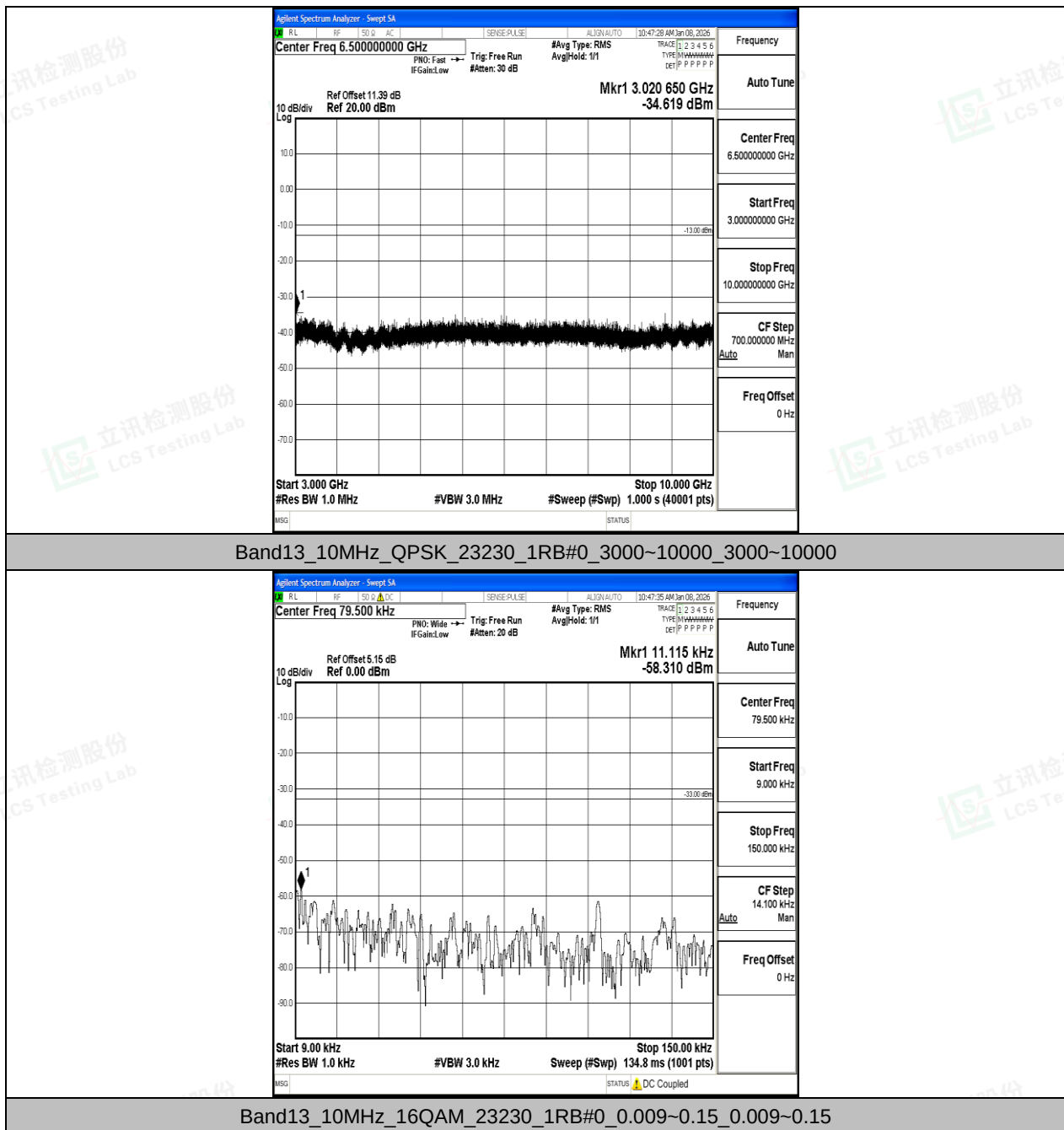


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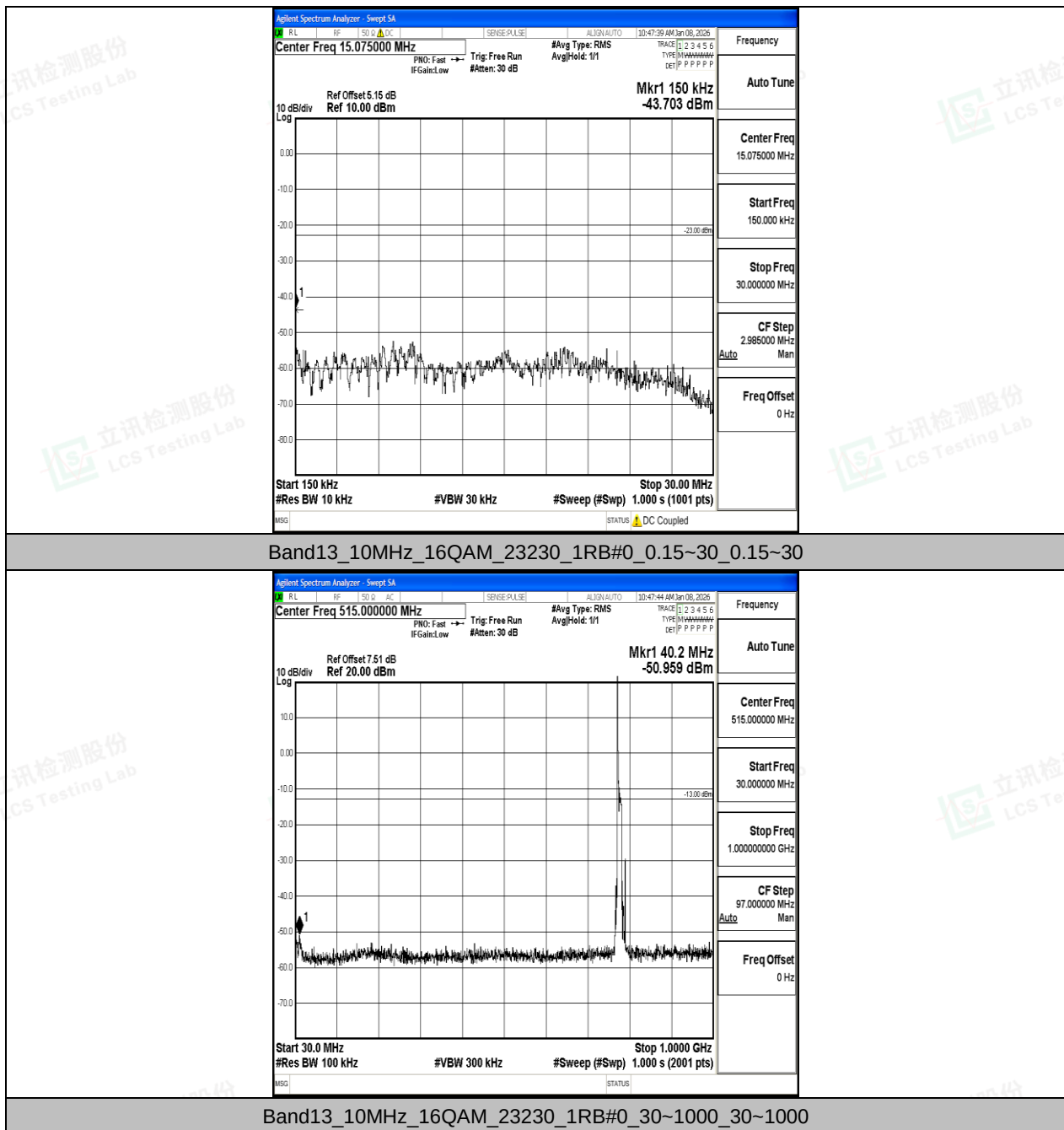


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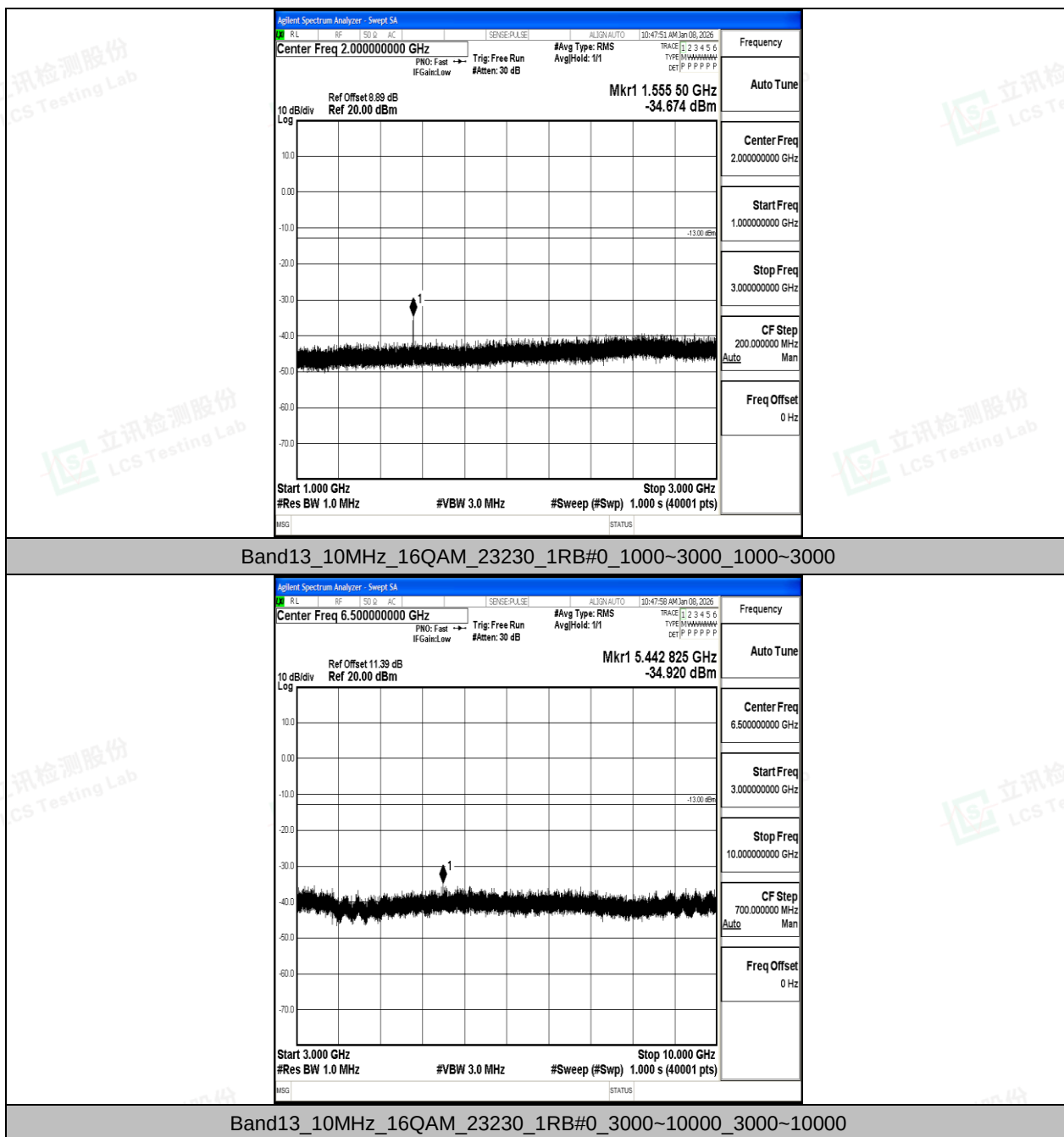


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