



Appendix G: Test Data for E-UTRA Band 13

Product Name: 4G Feature Phone

Test Model: Q8

Environmental Conditions

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





G.1 Conducted Output Power Data

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band13	5MHz	QPSK	23205	1RB#0	24.02	PASS
Band13	5MHz	16QAM	23205	1RB#0	23.08	PASS
Band13	5MHz	QPSK	23205	1RB#12	24.03	PASS
Band13	5MHz	16QAM	23205	1RB#12	23.15	PASS
Band13	5MHz	QPSK	23205	1RB#24	24.17	PASS
Band13	5MHz	16QAM	23205	1RB#24	23.03	PASS
Band13	5MHz	QPSK	23205	12RB#0	23.13	PASS
Band13	5MHz	16QAM	23205	12RB#0	22.32	PASS
Band13	5MHz	QPSK	23205	12RB#6	23.13	PASS
Band13	5MHz	16QAM	23205	12RB#6	22.51	PASS
Band13	5MHz	QPSK	23205	12RB#13	23.01	PASS
Band13	5MHz	16QAM	23205	12RB#13	22.45	PASS
Band13	5MHz	QPSK	23205	25RB#0	23.10	PASS
Band13	5MHz	16QAM	23205	25RB#0	22.40	PASS
Band13	5MHz	QPSK	23230	1RB#0	23.81	PASS
Band13	5MHz	16QAM	23230	1RB#0	22.97	PASS
Band13	5MHz	QPSK	23230	1RB#12	23.86	PASS
Band13	5MHz	16QAM	23230	1RB#12	23.00	PASS
Band13	5MHz	QPSK	23230	1RB#24	23.61	PASS
Band13	5MHz	16QAM	23230	1RB#24	22.77	PASS
Band13	5MHz	QPSK	23230	12RB#0	22.89	PASS
Band13	5MHz	16QAM	23230	12RB#0	22.18	PASS
Band13	5MHz	QPSK	23230	12RB#6	23.12	PASS
Band13	5MHz	16QAM	23230	12RB#6	22.30	PASS
Band13	5MHz	QPSK	23230	12RB#13	22.95	PASS
Band13	5MHz	16QAM	23230	12RB#13	22.26	PASS
Band13	5MHz	QPSK	23230	25RB#0	23.00	PASS
Band13	5MHz	16QAM	23230	25RB#0	22.30	PASS
Band13	5MHz	QPSK	23255	1RB#0	23.96	PASS
Band13	5MHz	16QAM	23255	1RB#0	22.51	PASS
Band13	5MHz	QPSK	23255	1RB#12	23.73	PASS
Band13	5MHz	16QAM	23255	1RB#12	22.44	PASS
Band13	5MHz	QPSK	23255	1RB#24	23.62	PASS
Band13	5MHz	16QAM	23255	1RB#24	22.40	PASS
Band13	5MHz	QPSK	23255	12RB#0	22.99	PASS



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Band13	5MHz	16QAM	23255	12RB#0	22.27	PASS
Band13	5MHz	QPSK	23255	12RB#6	22.98	PASS
Band13	5MHz	16QAM	23255	12RB#6	22.26	PASS
Band13	5MHz	QPSK	23255	12RB#13	22.86	PASS
Band13	5MHz	16QAM	23255	12RB#13	22.12	PASS
Band13	5MHz	QPSK	23255	25RB#0	22.79	PASS
Band13	5MHz	16QAM	23255	25RB#0	22.19	PASS
Band13	10MHz	QPSK	23230	1RB#0	23.31	PASS
Band13	10MHz	16QAM	23230	1RB#0	22.82	PASS
Band13	10MHz	QPSK	23230	1RB#24	23.39	PASS
Band13	10MHz	16QAM	23230	1RB#24	22.68	PASS
Band13	10MHz	QPSK	23230	1RB#49	23.06	PASS
Band13	10MHz	16QAM	23230	1RB#49	22.36	PASS
Band13	10MHz	QPSK	23230	25RB#0	22.67	PASS
Band13	10MHz	16QAM	23230	25RB#0	21.82	PASS
Band13	10MHz	QPSK	23230	25RB#12	22.66	PASS
Band13	10MHz	16QAM	23230	25RB#12	21.82	PASS
Band13	10MHz	QPSK	23230	25RB#25	22.36	PASS
Band13	10MHz	16QAM	23230	25RB#25	21.76	PASS
Band13	10MHz	QPSK	23230	50RB#0	22.55	PASS
Band13	10MHz	16QAM	23230	50RB#0	21.83	PASS





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

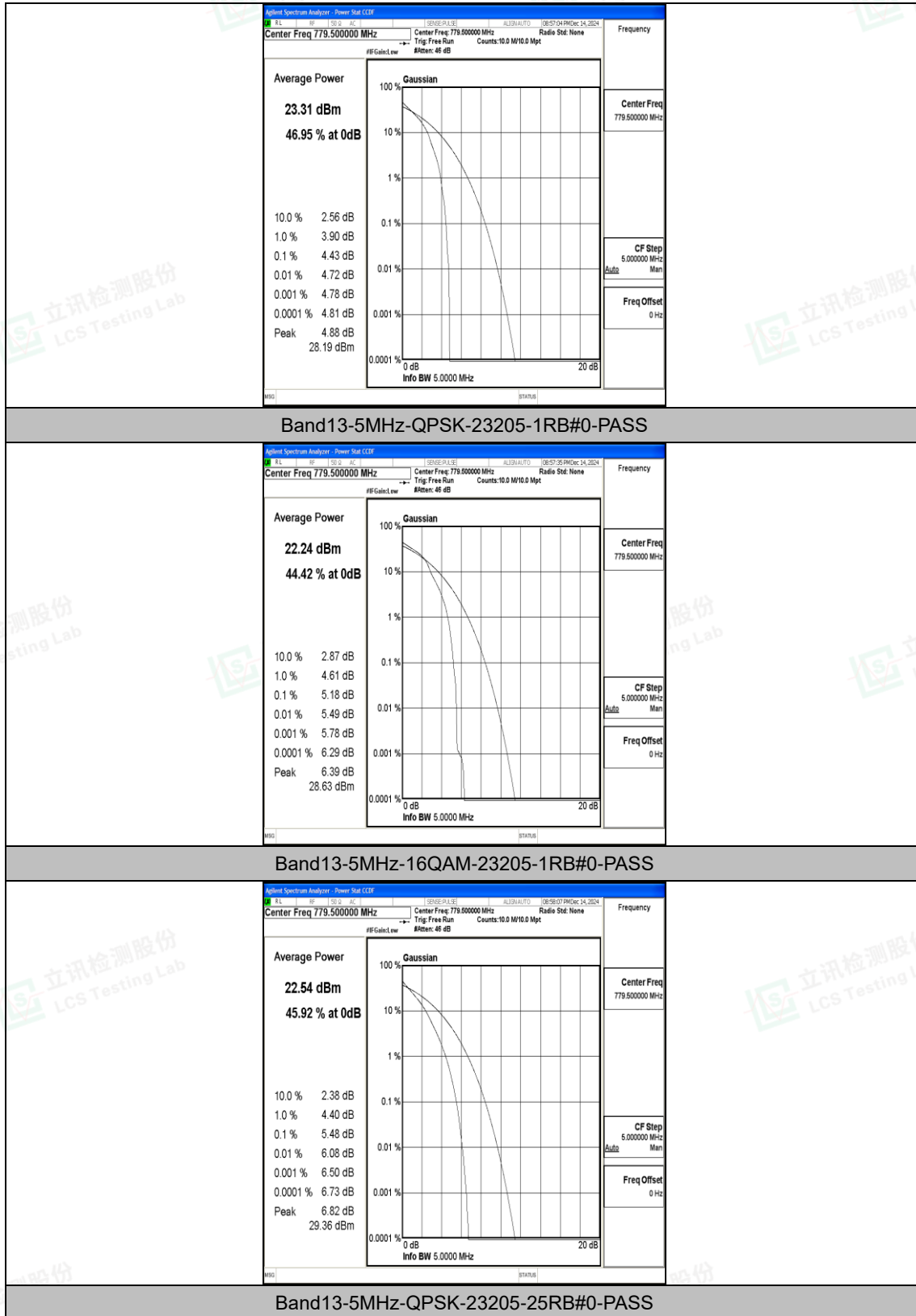
Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band13	5MHz	QPSK	23205	1RB#0	4.43	13	PASS
Band13	5MHz	16QAM	23205	1RB#0	5.18	13	PASS
Band13	5MHz	QPSK	23205	25RB#0	5.48	13	PASS
Band13	5MHz	16QAM	23205	25RB#0	6.11	13	PASS
Band13	5MHz	QPSK	23230	1RB#0	4.73	13	PASS
Band13	5MHz	16QAM	23230	1RB#0	5.29	13	PASS
Band13	5MHz	QPSK	23230	25RB#0	5.51	13	PASS
Band13	5MHz	16QAM	23230	25RB#0	6.16	13	PASS
Band13	5MHz	QPSK	23255	1RB#0	4.77	13	PASS
Band13	5MHz	16QAM	23255	1RB#0	5.33	13	PASS
Band13	5MHz	QPSK	23255	25RB#0	5.49	13	PASS
Band13	5MHz	16QAM	23255	25RB#0	6.18	13	PASS
Band13	10MHz	QPSK	23230	1RB#0	4.44	13	PASS
Band13	10MHz	16QAM	23230	1RB#0	5.13	13	PASS
Band13	10MHz	QPSK	23230	50RB#0	5.52	13	PASS
Band13	10MHz	16QAM	23230	50RB#0	6.17	13	PASS





Test Graphs

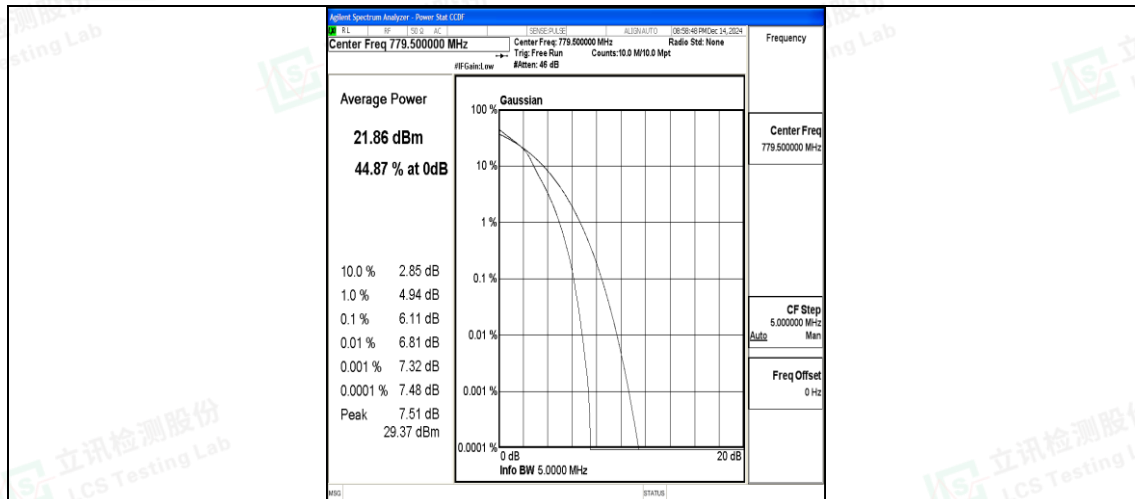


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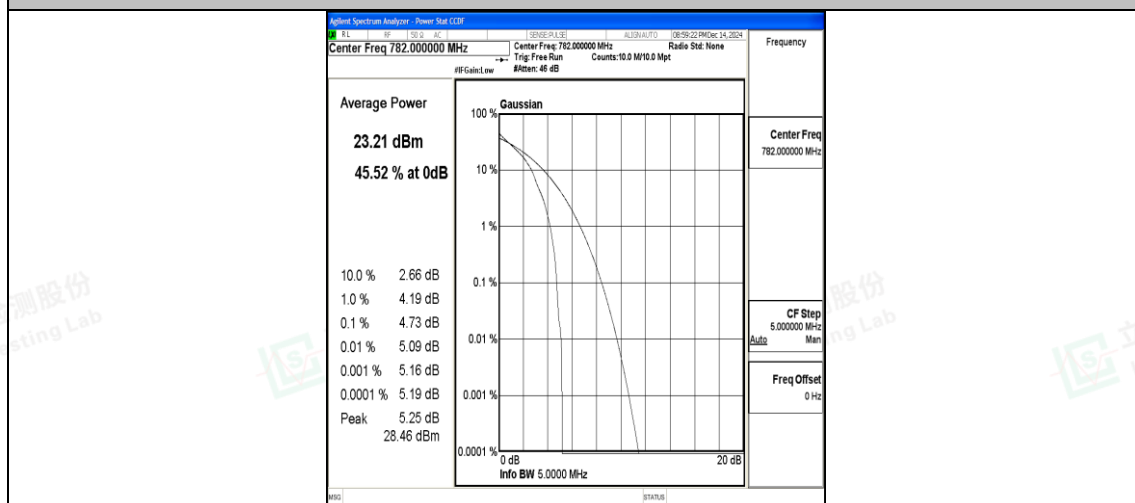
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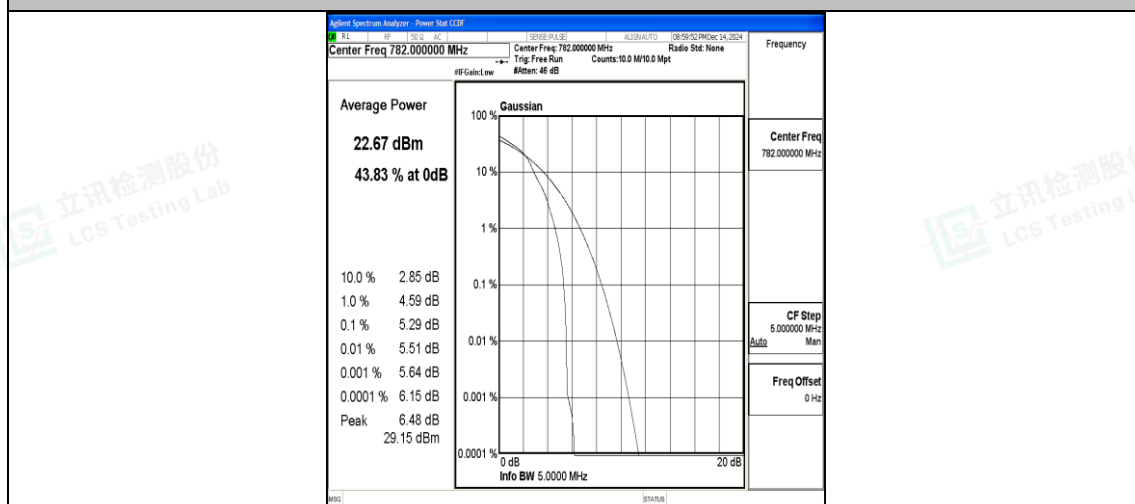
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Band13-5MHz-16QAM-23205-25RB#0-PASS



Band13-5MHz-QPSK-23230-1RB#0-PASS



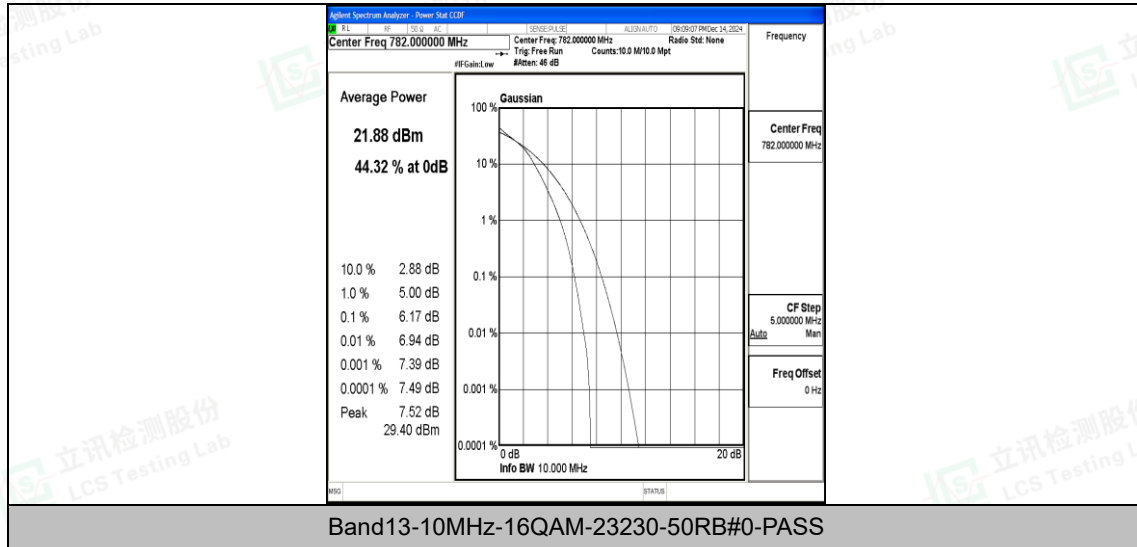
Band13-5MHz-16QAM-23230-1RB#0-PASS













G.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	4.5253	5.349	PASS
Band13	5MHz	16QAM	23205	25RB#0	4.5170	5.194	PASS
Band13	5MHz	QPSK	23230	25RB#0	4.5198	5.502	PASS
Band13	5MHz	16QAM	23230	25RB#0	4.5279	5.347	PASS
Band13	5MHz	QPSK	23255	25RB#0	4.5039	5.086	PASS
Band13	5MHz	16QAM	23255	25RB#0	4.5378	5.372	PASS
Band13	10MHz	QPSK	23230	50RB#0	8.9983	10.01	PASS
Band13	10MHz	16QAM	23230	50RB#0	8.9993	10.03	PASS



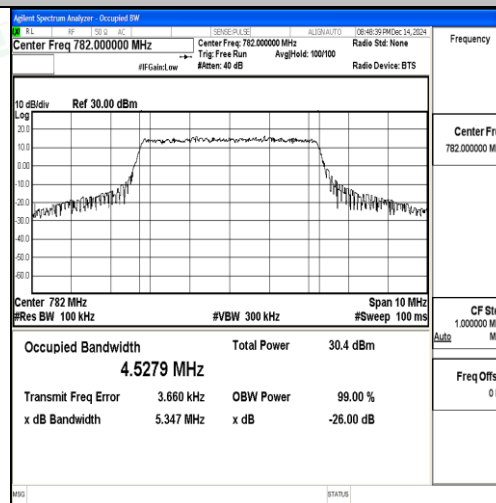


Test Graphs

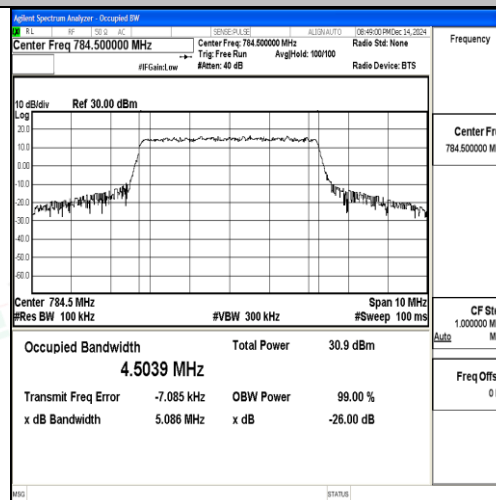




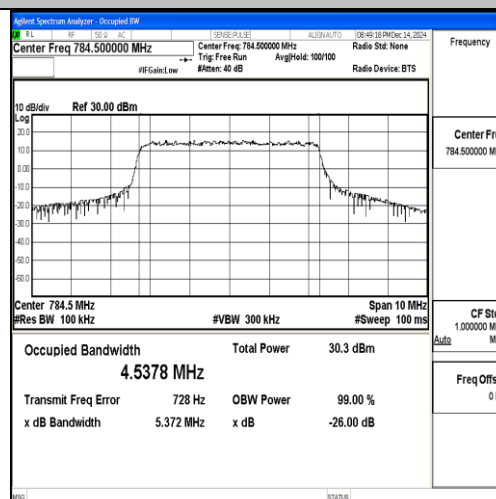
Band13-5MHz-QPSK-23230-25RB#0-PASS



Band13-5MHz-16QAM-23230-25RB#0-PASS



Band13-5MHz-QPSK-23255-25RB#0-PASS



Band13-5MHz-16QAM-23255-25RB#0-PASS



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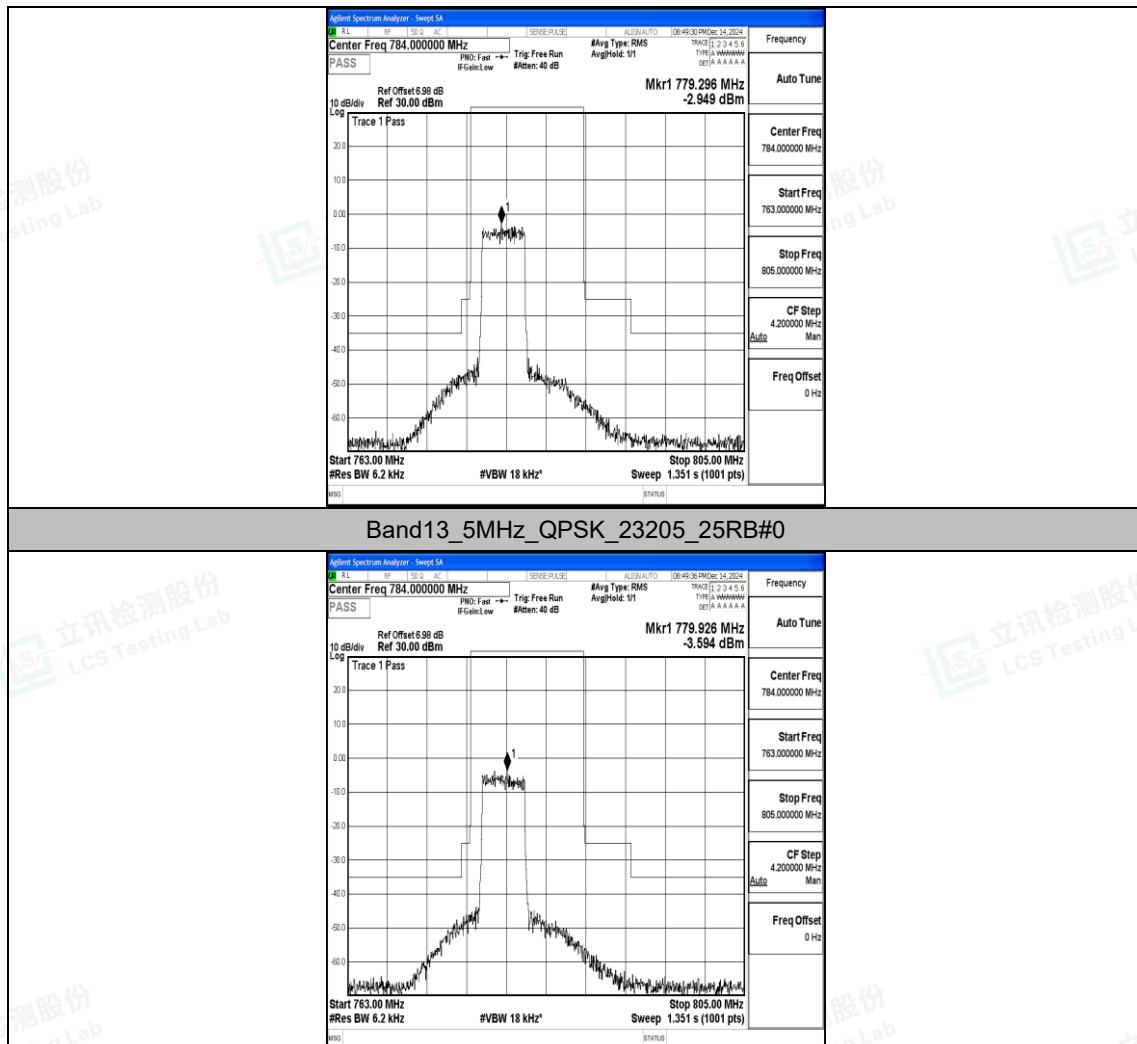


G.4 Band Edge

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Peak Frequency	Result(dBm)	Verdict
Band13	5MHz	QPSK	23205	25RB#0	774.80	-47.51	PASS
Band13	5MHz	16QAM	23205	25RB#0	774.55	-47.67	PASS
Band13	5MHz	QPSK	23255	25RB#0	774.68	-56.43	PASS
Band13	5MHz	16QAM	23255	25RB#0	788.41	-49.33	PASS
Band13	10MHz	QPSK	23230	50RB#0	774.97	-48.53	PASS
Band13	10MHz	16QAM	23230	50RB#0	774.97	-49.11	PASS

Test Graphs



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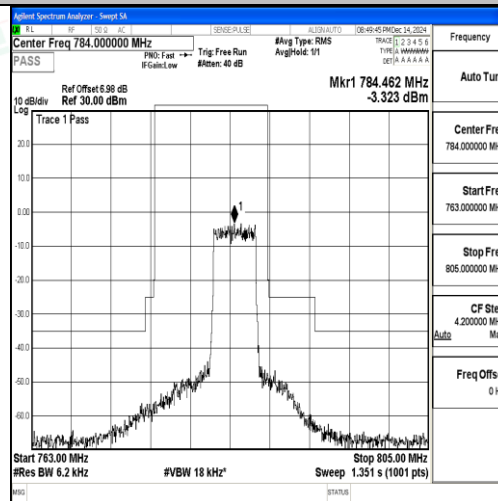
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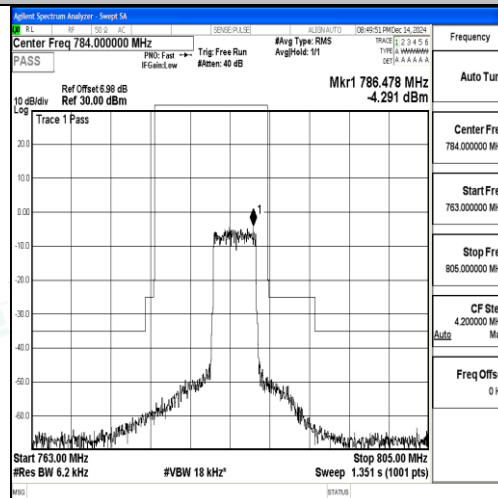
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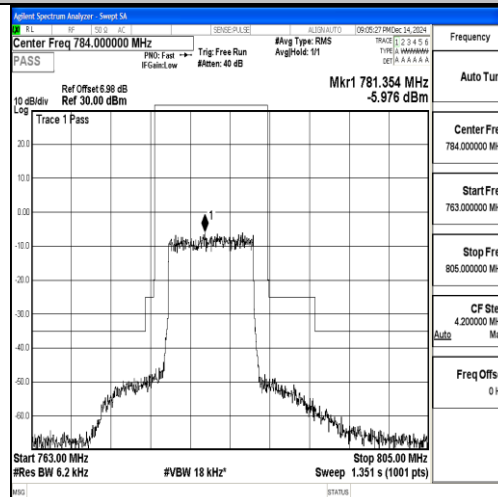
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Band13_5MHz_QPSK_23255_25RB#0



Band13_5MHz_16QAM_23255_25RB#0



Band13_10MHz_QPSK_23230_50RB#0

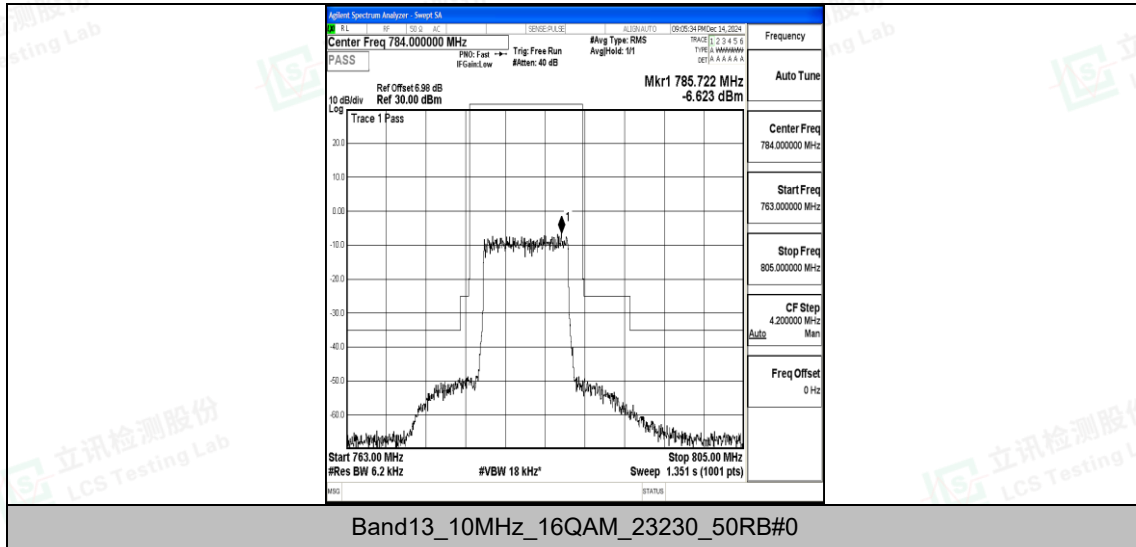


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G.5 Conducted Spurious Emission

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Frequency Range	Result (dBm)	Verdict
Band13	5MHz	QPSK	23205	1RB#0	0.009~0.15	-58.79	PASS
Band13	5MHz	QPSK	23205	1RB#0	0.15~30	-53.31	PASS
Band13	5MHz	QPSK	23205	1RB#0	30~1000	-60.93	PASS
Band13	5MHz	QPSK	23205	1RB#0	1000~3000	-42.63	PASS
Band13	5MHz	QPSK	23205	1RB#0	3000~10000	-44.13	PASS
Band13	5MHz	16QAM	23205	1RB#0	0.009~0.15	-57.71	PASS
Band13	5MHz	16QAM	23205	1RB#0	0.15~30	-51.26	PASS
Band13	5MHz	16QAM	23205	1RB#0	30~1000	-61.84	PASS
Band13	5MHz	16QAM	23205	1RB#0	1000~3000	-44.58	PASS
Band13	5MHz	16QAM	23205	1RB#0	3000~10000	-44.21	PASS
Band13	5MHz	QPSK	23230	1RB#0	0.009~0.15	-59.51	PASS
Band13	5MHz	QPSK	23230	1RB#0	0.15~30	-52.32	PASS
Band13	5MHz	QPSK	23230	1RB#0	30~1000	-61.79	PASS
Band13	5MHz	QPSK	23230	1RB#0	1000~3000	-42.78	PASS
Band13	5MHz	QPSK	23230	1RB#0	3000~10000	-43.81	PASS
Band13	5MHz	16QAM	23230	1RB#0	0.009~0.15	-57.15	PASS
Band13	5MHz	16QAM	23230	1RB#0	0.15~30	-51.43	PASS
Band13	5MHz	16QAM	23230	1RB#0	30~1000	-62.16	PASS
Band13	5MHz	16QAM	23230	1RB#0	1000~3000	-42.68	PASS
Band13	5MHz	16QAM	23230	1RB#0	3000~10000	-44.14	PASS
Band13	5MHz	QPSK	23255	1RB#0	0.009~0.15	-58.22	PASS
Band13	5MHz	QPSK	23255	1RB#0	0.15~30	-52.41	PASS
Band13	5MHz	QPSK	23255	1RB#0	30~1000	-59.82	PASS
Band13	5MHz	QPSK	23255	1RB#0	1000~3000	-42.97	PASS
Band13	5MHz	QPSK	23255	1RB#0	3000~10000	-43.97	PASS
Band13	5MHz	16QAM	23255	1RB#0	0.009~0.15	-56.77	PASS
Band13	5MHz	16QAM	23255	1RB#0	0.15~30	-50.82	PASS
Band13	5MHz	16QAM	23255	1RB#0	30~1000	-59.57	PASS
Band13	5MHz	16QAM	23255	1RB#0	1000~3000	-42.03	PASS
Band13	5MHz	16QAM	23255	1RB#0	3000~10000	-43.75	PASS
Band13	10MHz	QPSK	23230	1RB#0	0.009~0.15	-58.84	PASS
Band13	10MHz	QPSK	23230	1RB#0	0.15~30	-53.08	PASS
Band13	10MHz	QPSK	23230	1RB#0	30~1000	-61.90	PASS
Band13	10MHz	QPSK	23230	1RB#0	1000~3000	-43.67	PASS



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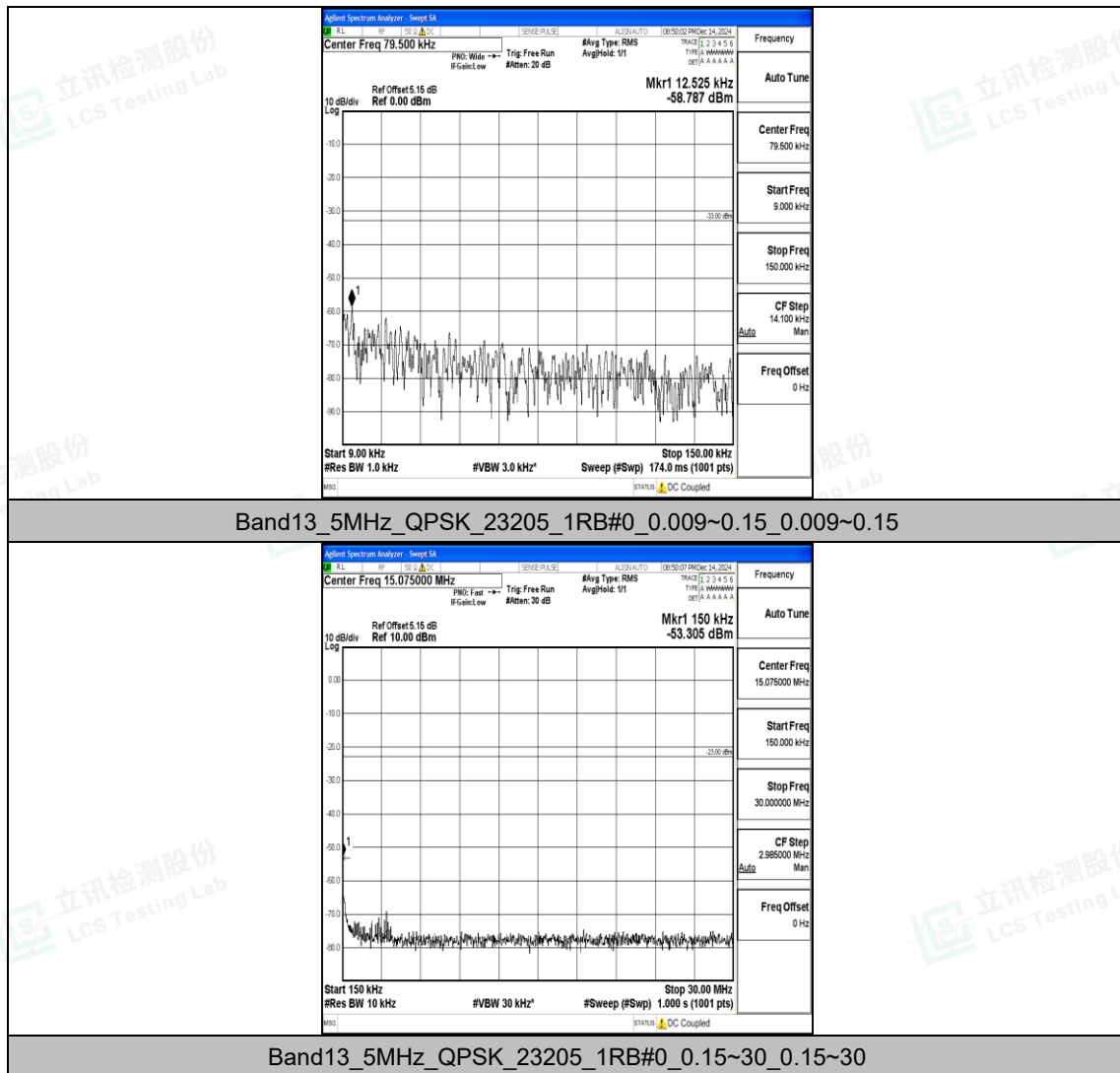
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Band13	10MHz	QPSK	23230	1RB#0	3000~10000	-43.91	PASS
Band13	10MHz	16QAM	23230	1RB#0	0.009~0.15	-57.49	PASS
Band13	10MHz	16QAM	23230	1RB#0	0.15~30	-51.29	PASS
Band13	10MHz	16QAM	23230	1RB#0	30~1000	-61.99	PASS
Band13	10MHz	16QAM	23230	1RB#0	1000~3000	-42.90	PASS
Band13	10MHz	16QAM	23230	1RB#0	3000~10000	-44.22	PASS

Test Graphs



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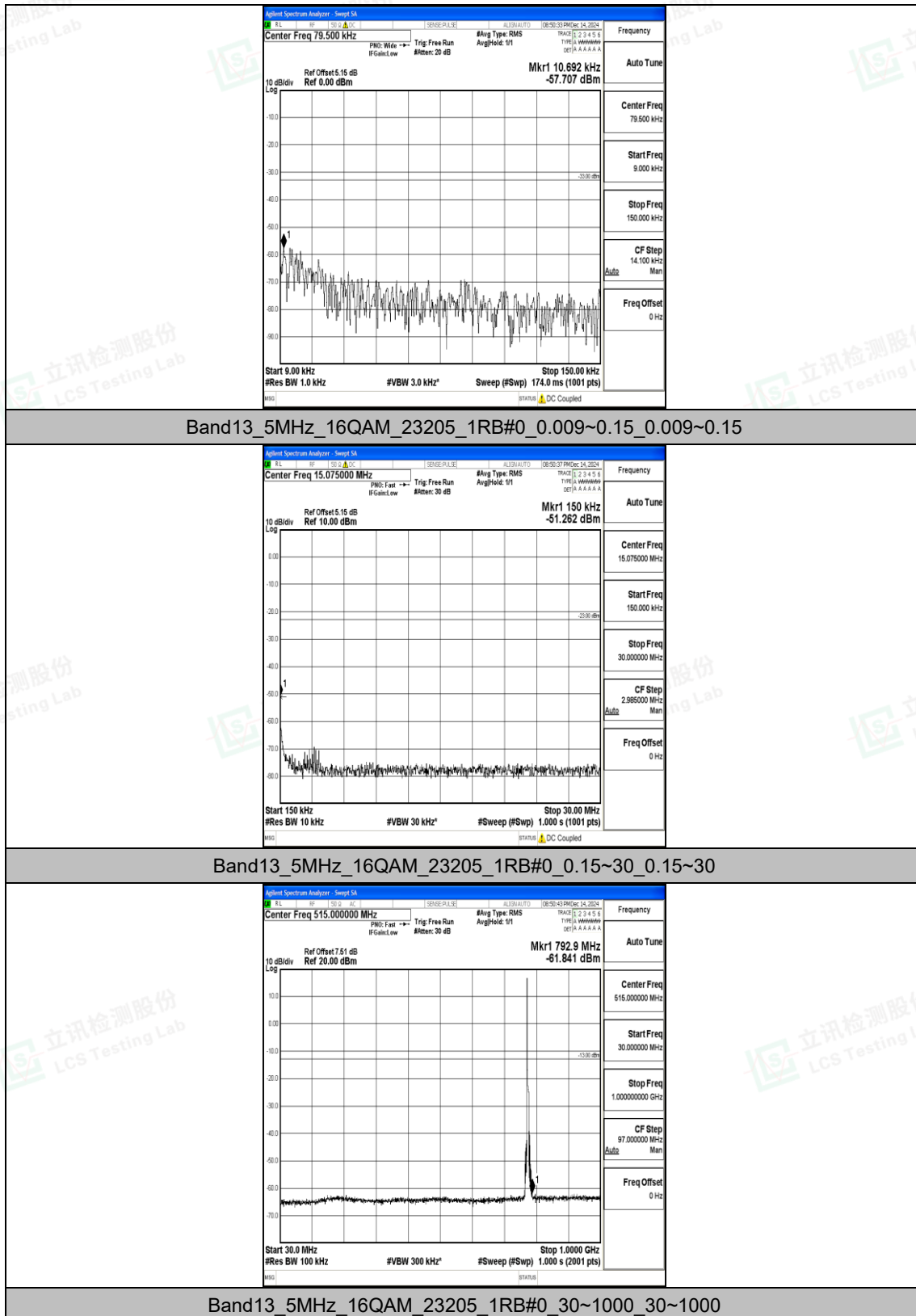


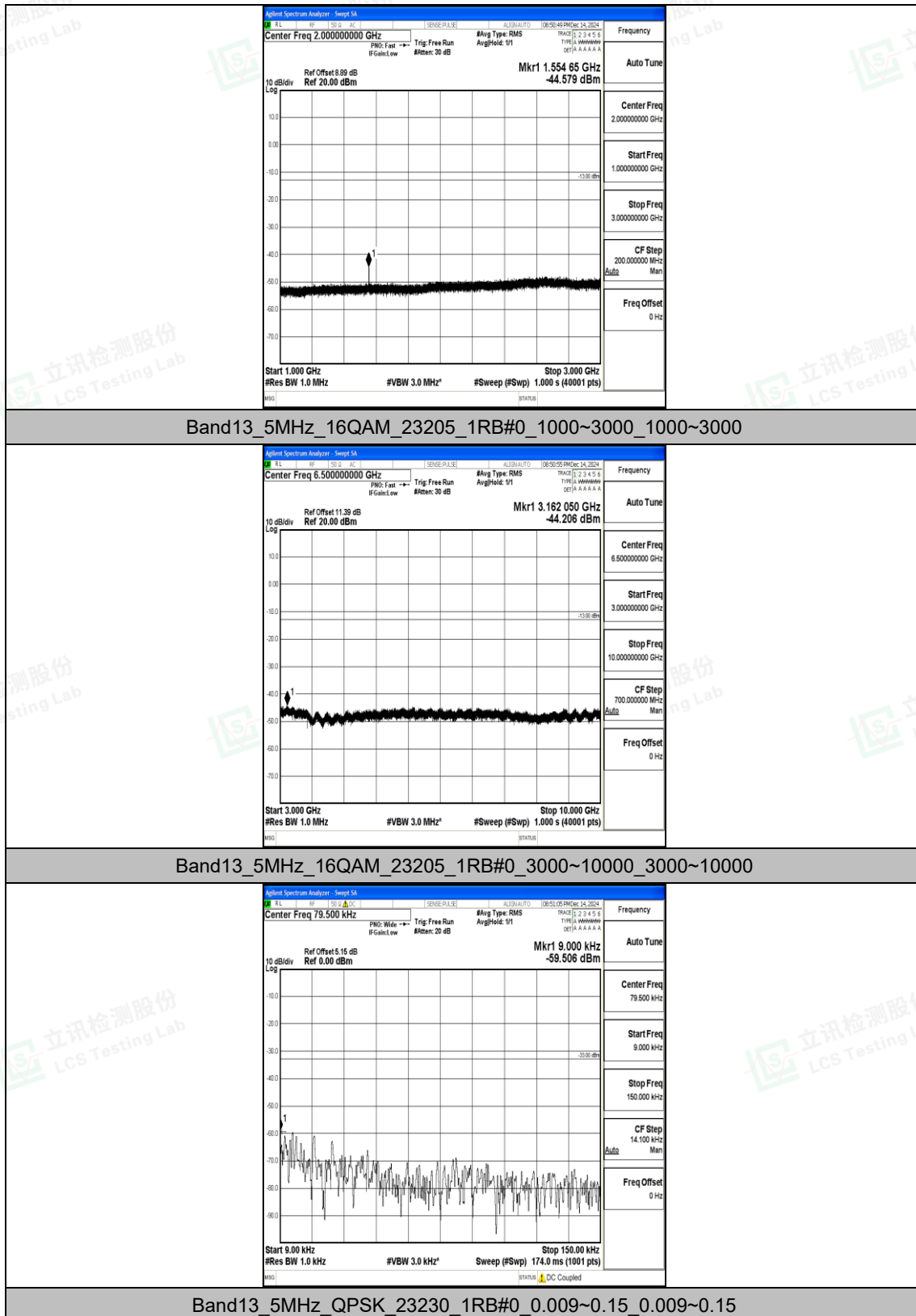
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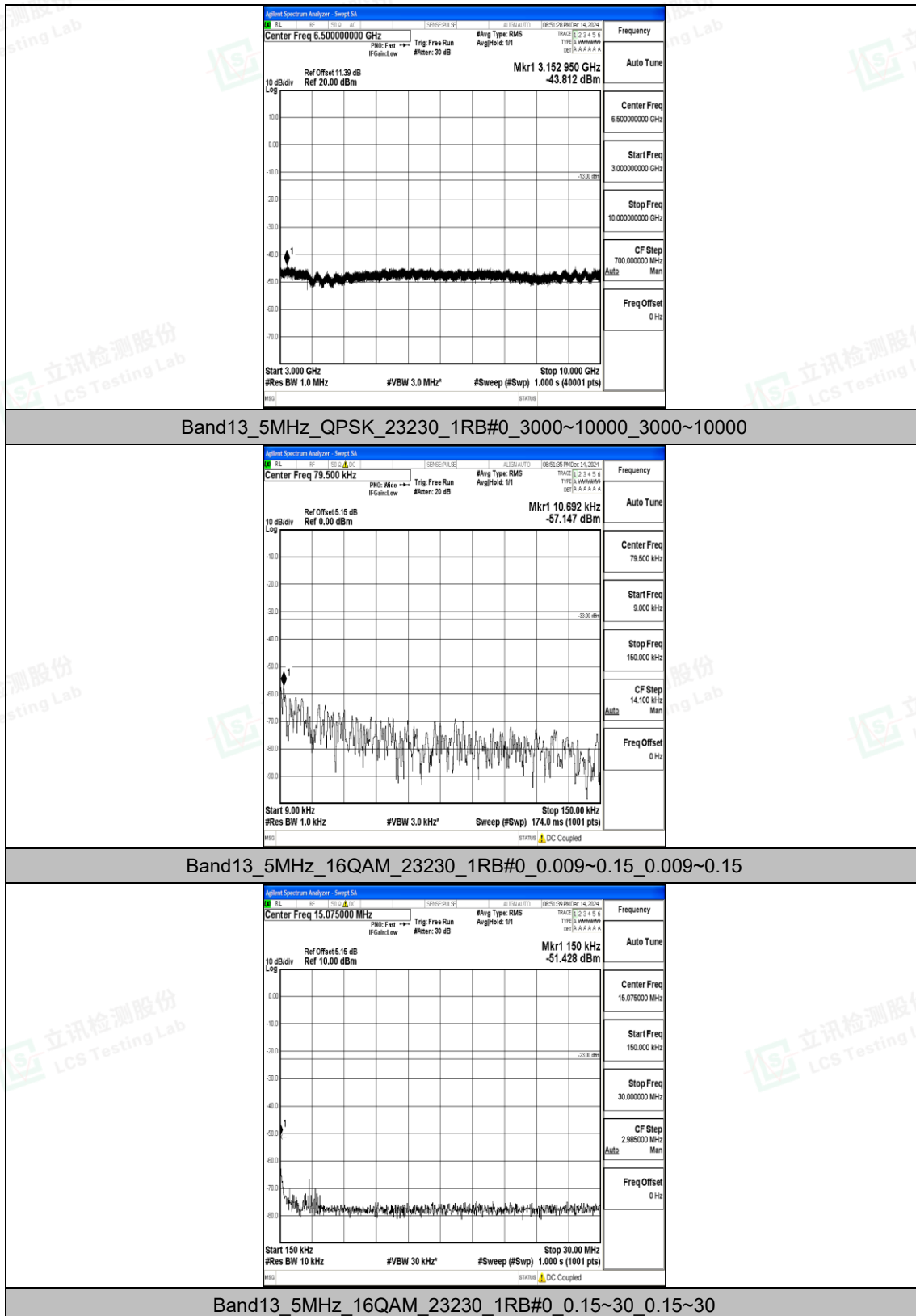


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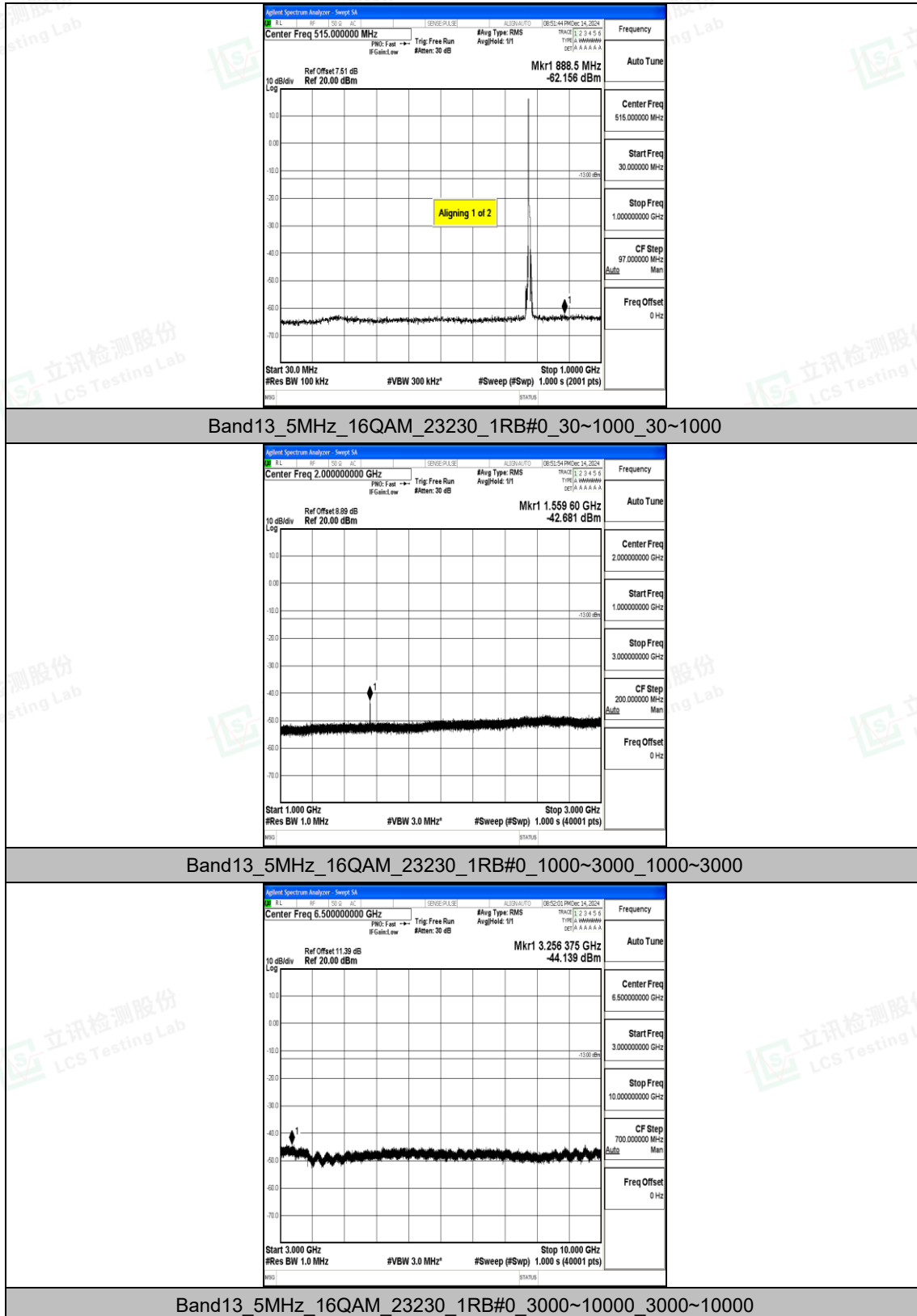


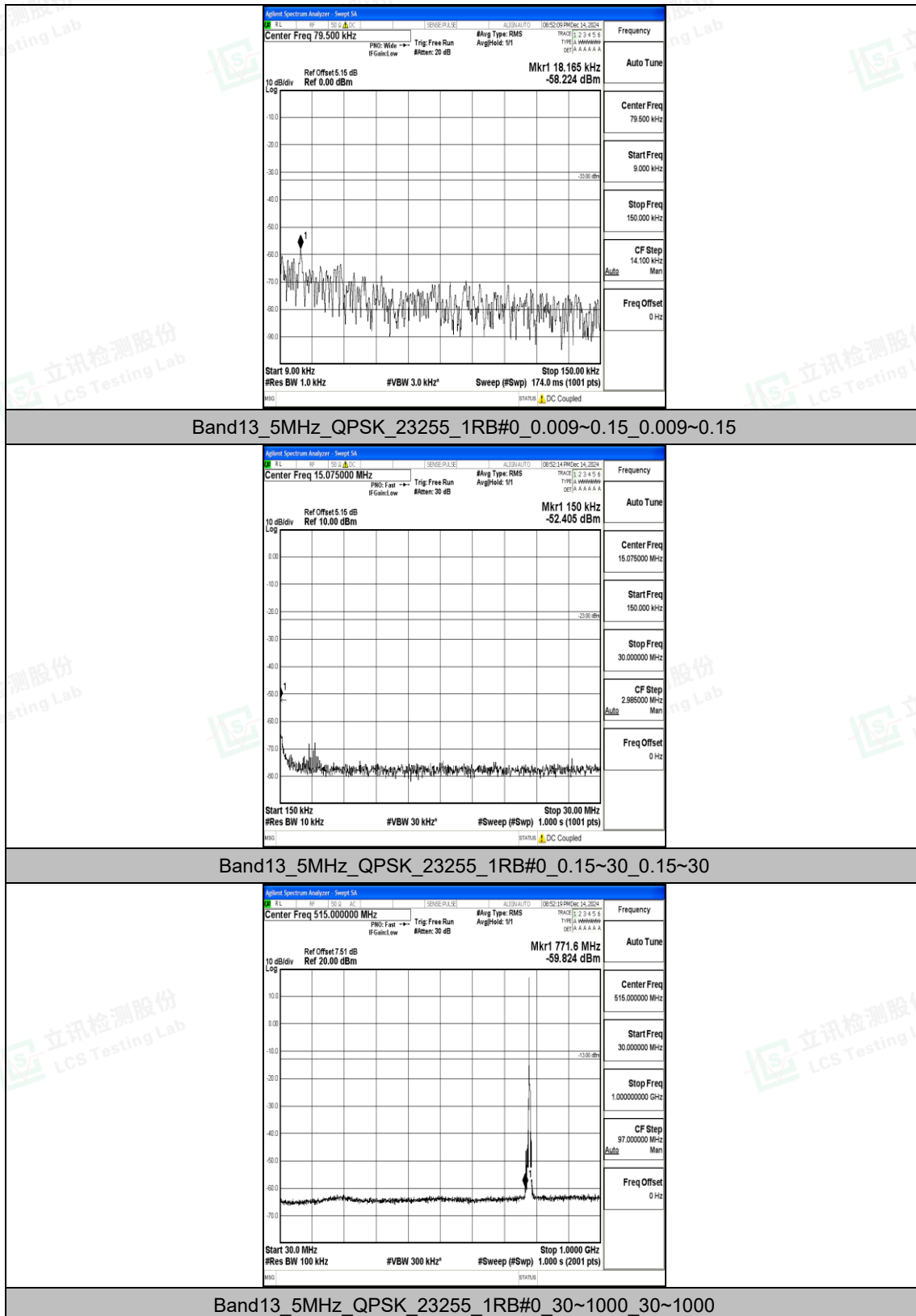
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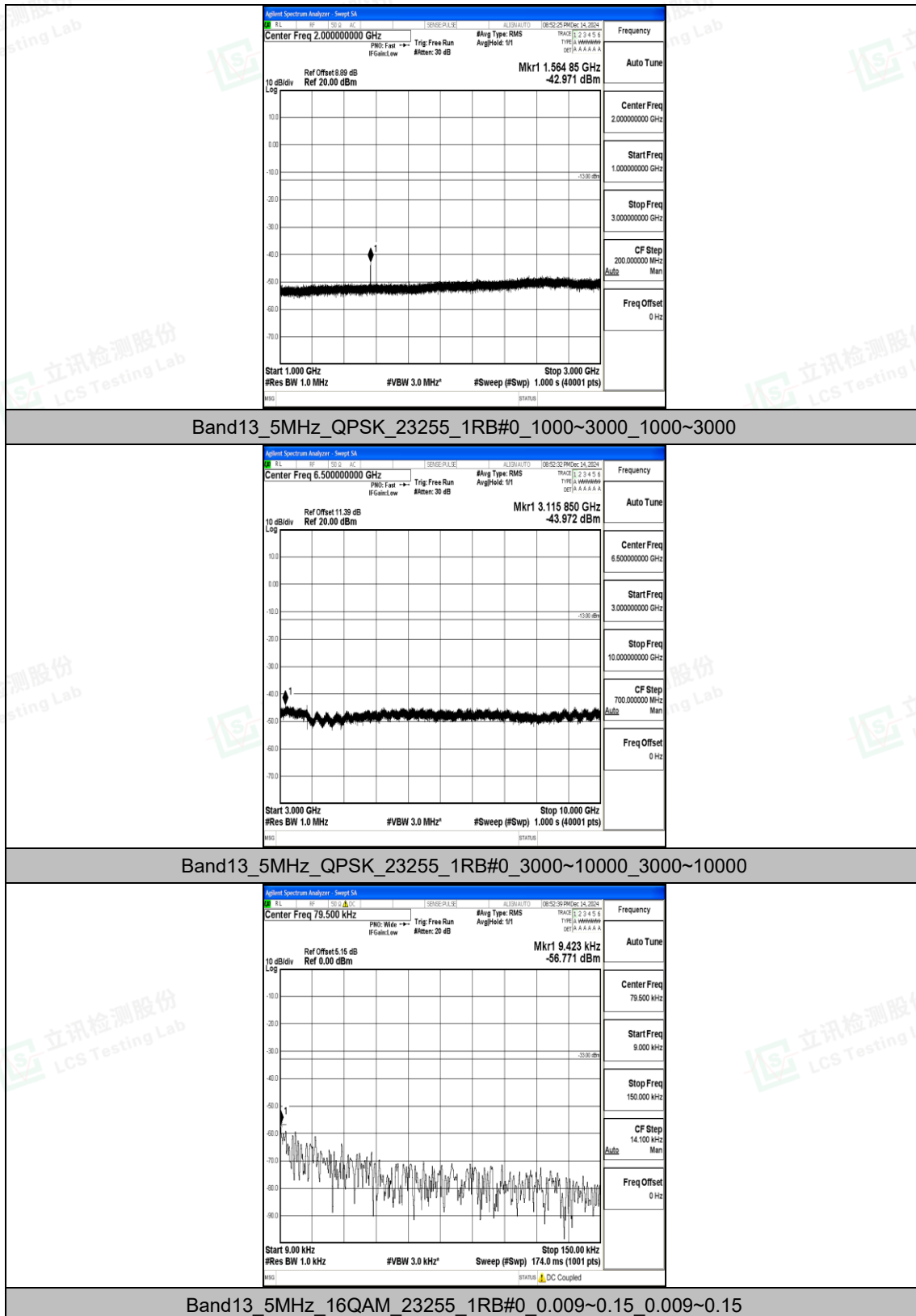


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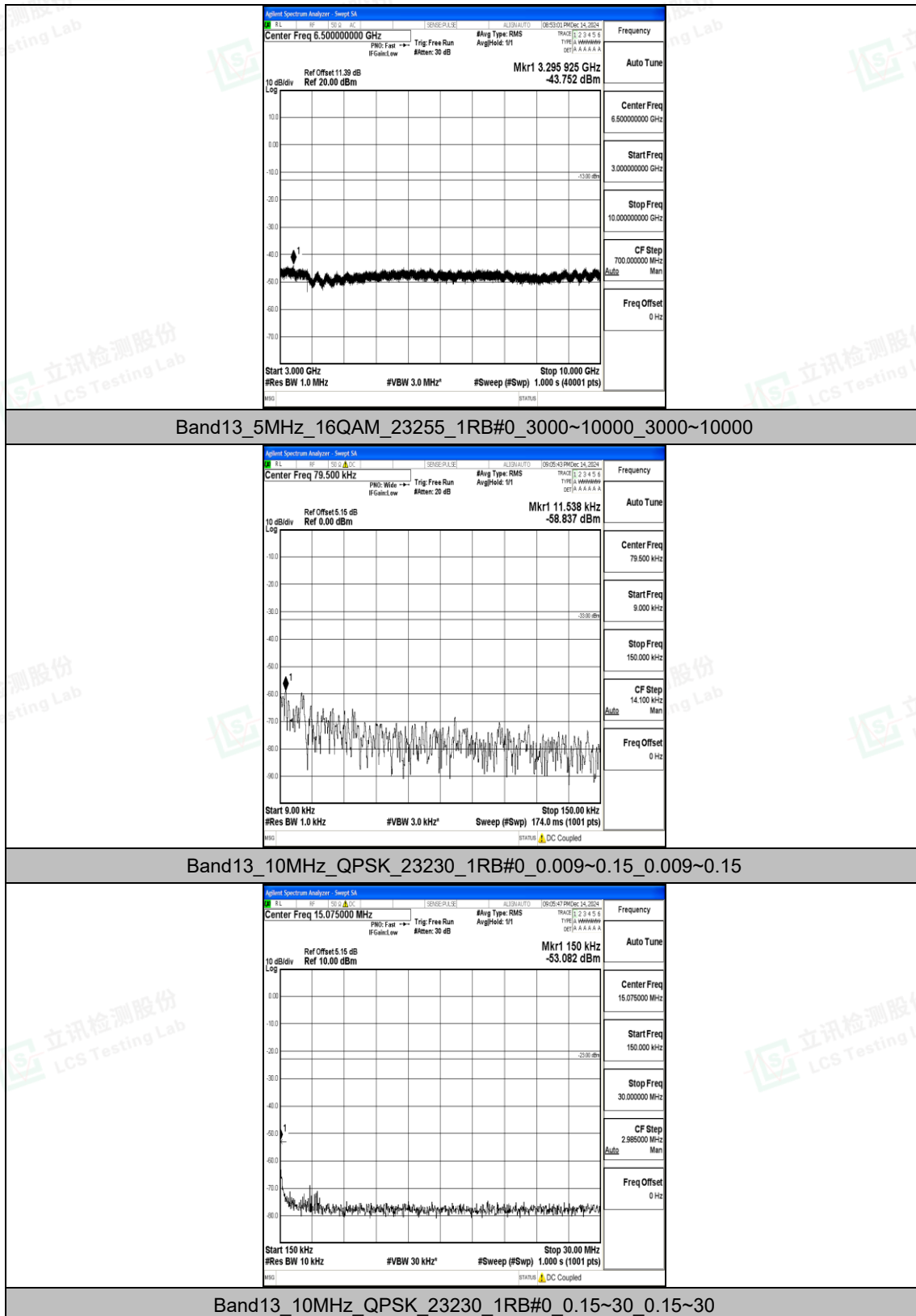
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