



Appendix G: Test Data for E-UTRA Band 13

Product Name: Global Powerbank WiFi

Test Model: P1

Environmental Conditions

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



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G.1 Conducted Output Power Data

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band13	5MHz	QPSK	23205	1RB#0	26.06	PASS
Band13	5MHz	16QAM	23205	1RB#0	24.80	PASS
Band13	5MHz	QPSK	23205	1RB#12	26.13	PASS
Band13	5MHz	16QAM	23205	1RB#12	24.69	PASS
Band13	5MHz	QPSK	23205	1RB#24	26.06	PASS
Band13	5MHz	16QAM	23205	1RB#24	24.60	PASS
Band13	5MHz	QPSK	23205	12RB#0	24.98	PASS
Band13	5MHz	16QAM	23205	12RB#0	24.28	PASS
Band13	5MHz	QPSK	23205	12RB#6	24.91	PASS
Band13	5MHz	16QAM	23205	12RB#6	24.29	PASS
Band13	5MHz	QPSK	23205	12RB#13	25.02	PASS
Band13	5MHz	16QAM	23205	12RB#13	23.85	PASS
Band13	5MHz	QPSK	23205	25RB#0	25.04	PASS
Band13	5MHz	16QAM	23205	25RB#0	23.99	PASS
Band13	5MHz	QPSK	23230	1RB#0	25.97	PASS
Band13	5MHz	16QAM	23230	1RB#0	24.25	PASS
Band13	5MHz	QPSK	23230	1RB#12	26.06	PASS
Band13	5MHz	16QAM	23230	1RB#12	24.33	PASS
Band13	5MHz	QPSK	23230	1RB#24	25.86	PASS
Band13	5MHz	16QAM	23230	1RB#24	24.25	PASS
Band13	5MHz	QPSK	23230	12RB#0	24.98	PASS
Band13	5MHz	16QAM	23230	12RB#0	23.91	PASS
Band13	5MHz	QPSK	23230	12RB#6	24.95	PASS
Band13	5MHz	16QAM	23230	12RB#6	23.91	PASS
Band13	5MHz	QPSK	23230	12RB#13	24.88	PASS
Band13	5MHz	16QAM	23230	12RB#13	23.95	PASS
Band13	5MHz	QPSK	23230	25RB#0	24.95	PASS
Band13	5MHz	16QAM	23230	25RB#0	23.98	PASS
Band13	5MHz	QPSK	23255	1RB#0	25.97	PASS
Band13	5MHz	16QAM	23255	1RB#0	24.94	PASS
Band13	5MHz	QPSK	23255	1RB#12	26.00	PASS
Band13	5MHz	16QAM	23255	1RB#12	24.86	PASS
Band13	5MHz	QPSK	23255	1RB#24	25.94	PASS
Band13	5MHz	16QAM	23255	1RB#24	24.92	PASS



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Band13	5MHz	QPSK	23255	12RB#0	24.97	PASS
Band13	5MHz	16QAM	23255	12RB#0	24.01	PASS
Band13	5MHz	QPSK	23255	12RB#6	24.97	PASS
Band13	5MHz	16QAM	23255	12RB#6	24.03	PASS
Band13	5MHz	QPSK	23255	12RB#13	24.81	PASS
Band13	5MHz	16QAM	23255	12RB#13	24.35	PASS
Band13	5MHz	QPSK	23255	25RB#0	24.98	PASS
Band13	5MHz	16QAM	23255	25RB#0	23.96	PASS
Band13	10MHz	QPSK	23230	1RB#0	25.94	PASS
Band13	10MHz	16QAM	23230	1RB#0	24.62	PASS
Band13	10MHz	QPSK	23230	1RB#24	25.95	PASS
Band13	10MHz	16QAM	23230	1RB#24	24.57	PASS
Band13	10MHz	QPSK	23230	1RB#49	25.91	PASS
Band13	10MHz	16QAM	23230	1RB#49	24.57	PASS
Band13	10MHz	QPSK	23230	25RB#0	25.06	PASS
Band13	10MHz	16QAM	23230	25RB#0	23.90	PASS
Band13	10MHz	QPSK	23230	25RB#12	25.01	PASS
Band13	10MHz	16QAM	23230	25RB#12	23.92	PASS
Band13	10MHz	QPSK	23230	25RB#25	24.93	PASS
Band13	10MHz	16QAM	23230	25RB#25	24.05	PASS
Band13	10MHz	QPSK	23230	50RB#0	25.07	PASS
Band13	10MHz	16QAM	23230	50RB#0	23.91	PASS





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

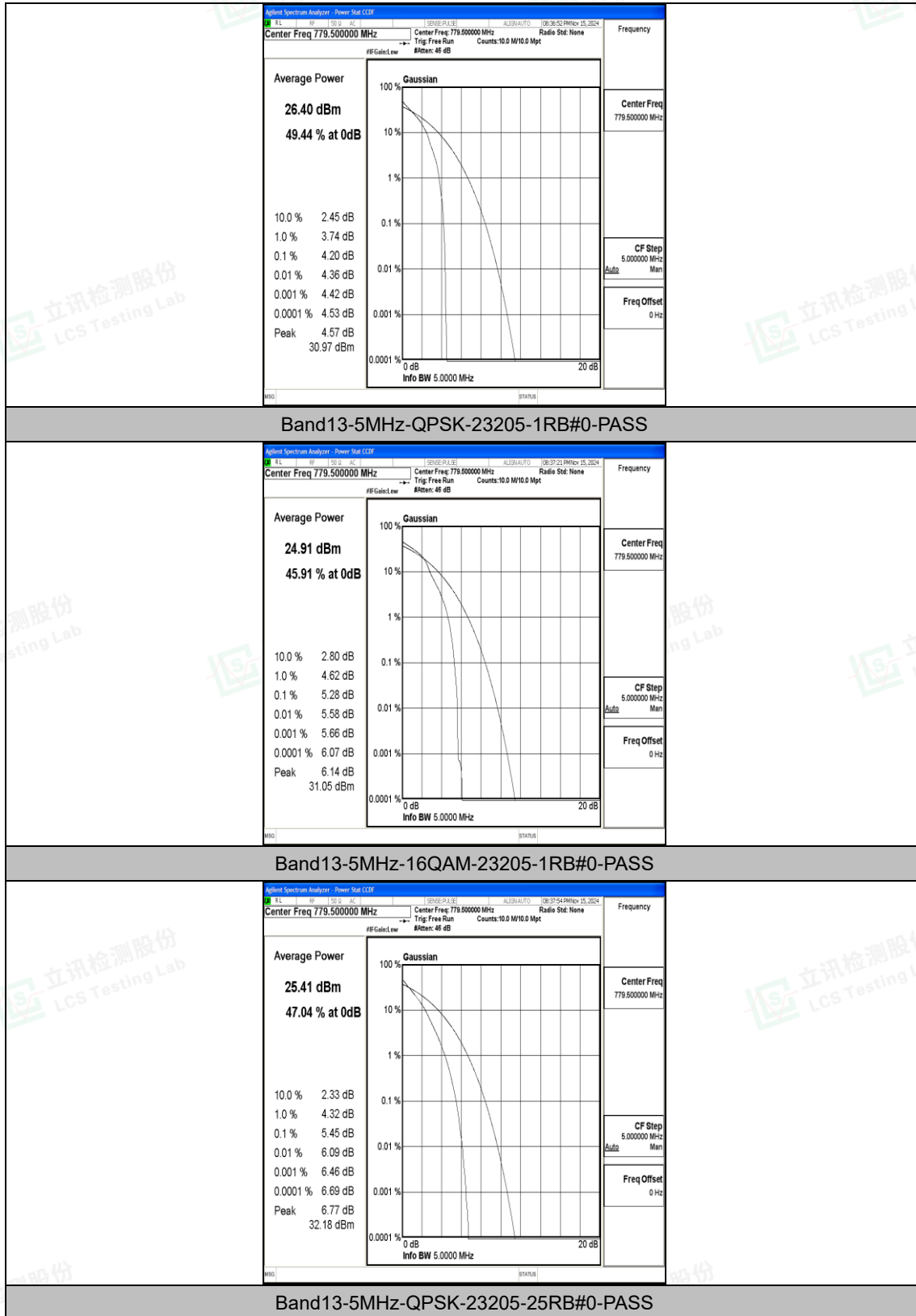
Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band13	5MHz	QPSK	23205	1RB#0	4.20	13	PASS
Band13	5MHz	16QAM	23205	1RB#0	5.28	13	PASS
Band13	5MHz	QPSK	23205	25RB#0	5.45	13	PASS
Band13	5MHz	16QAM	23205	25RB#0	6.13	13	PASS
Band13	5MHz	QPSK	23230	1RB#0	4.85	13	PASS
Band13	5MHz	16QAM	23230	1RB#0	5.61	13	PASS
Band13	5MHz	QPSK	23230	25RB#0	5.53	13	PASS
Band13	5MHz	16QAM	23230	25RB#0	6.22	13	PASS
Band13	5MHz	QPSK	23255	1RB#0	4.78	13	PASS
Band13	5MHz	16QAM	23255	1RB#0	5.67	13	PASS
Band13	5MHz	QPSK	23255	25RB#0	5.37	13	PASS
Band13	5MHz	16QAM	23255	25RB#0	6.10	13	PASS
Band13	10MHz	QPSK	23230	1RB#0	4.26	13	PASS
Band13	10MHz	16QAM	23230	1RB#0	5.08	13	PASS
Band13	10MHz	QPSK	23230	50RB#0	5.50	13	PASS
Band13	10MHz	16QAM	23230	50RB#0	6.21	13	PASS





Test Graphs



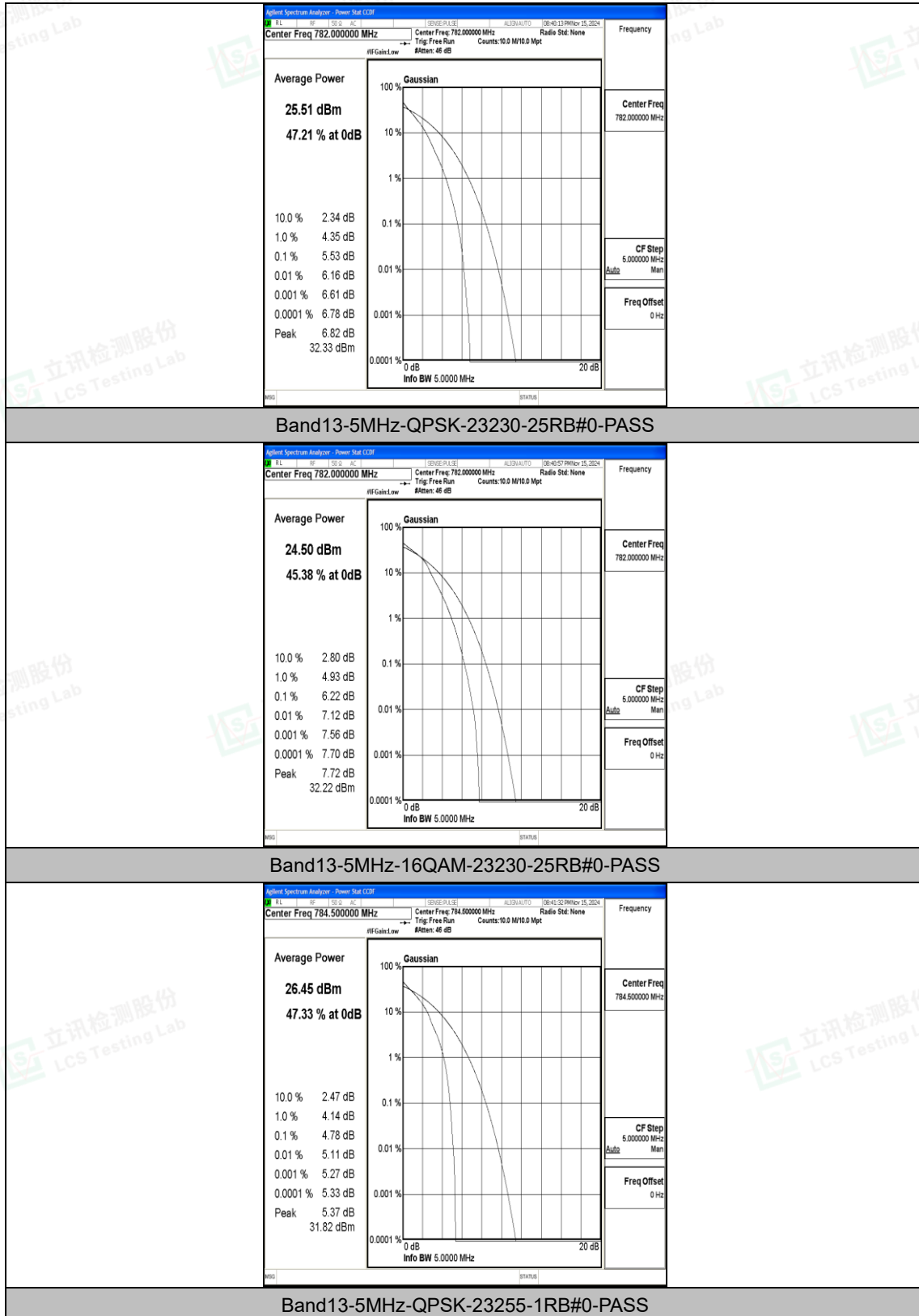
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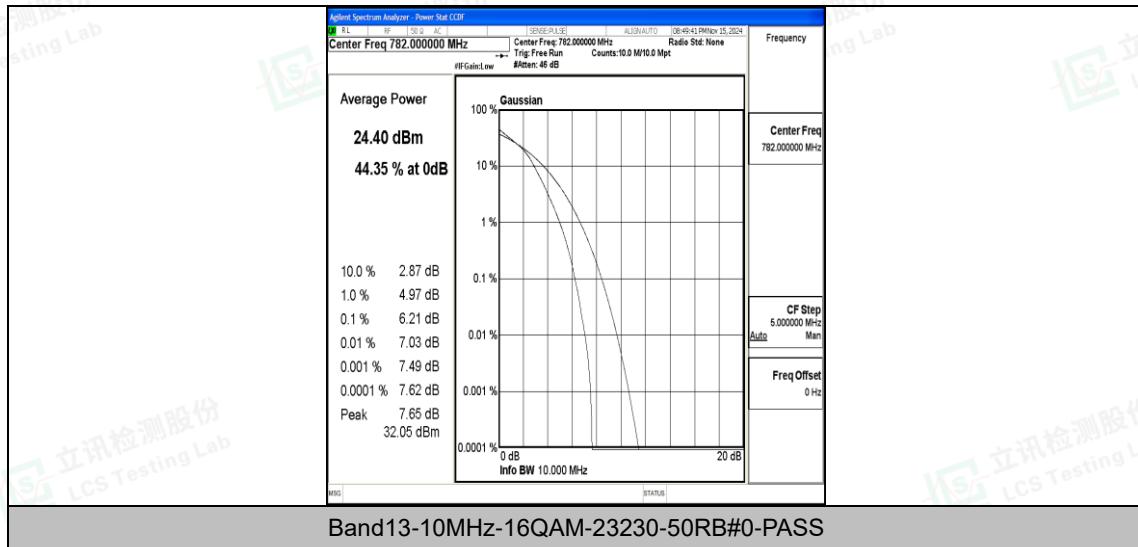
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G.3 26dB Bandwidth and Occupied Bandwidth

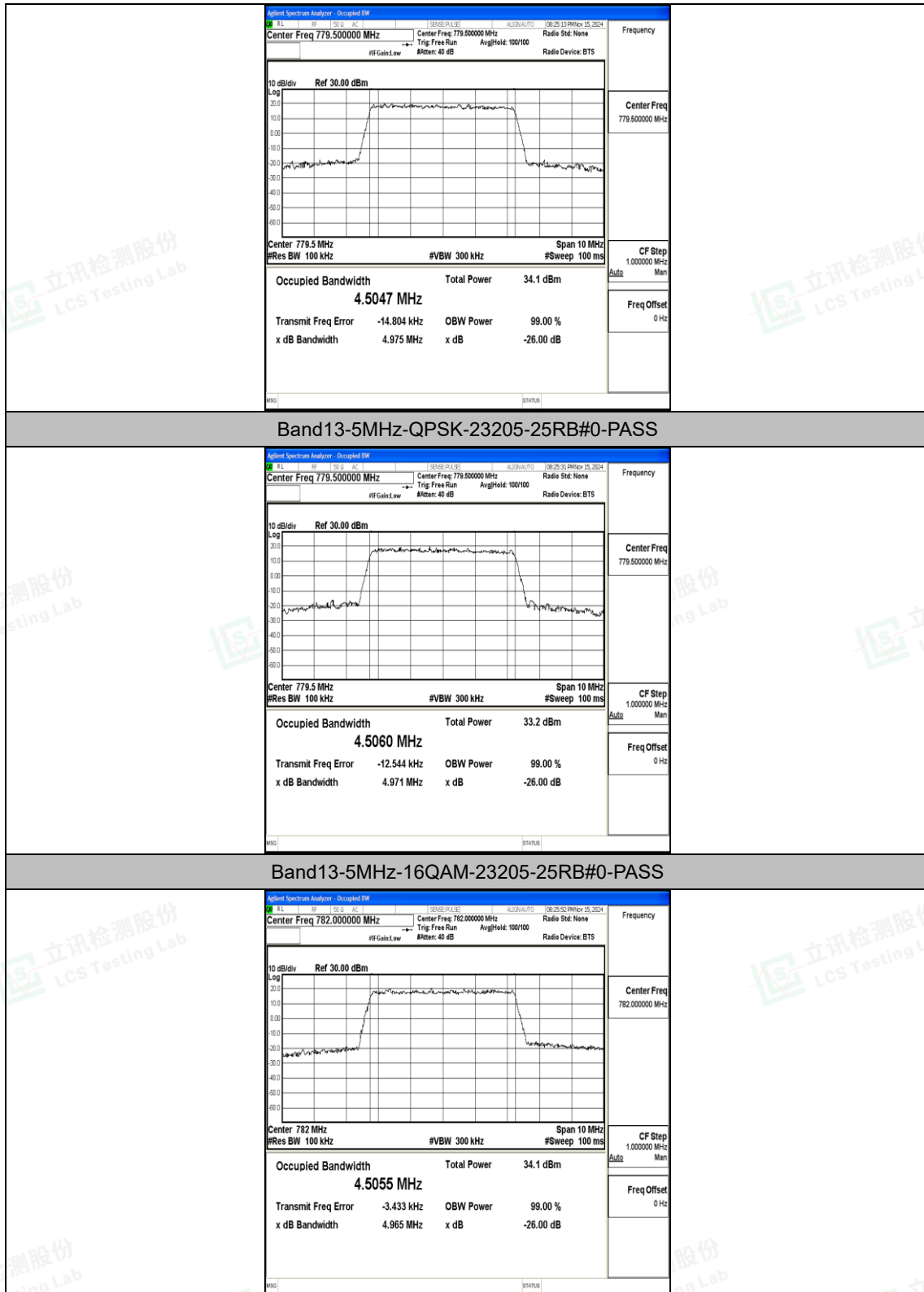
Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band13	5MHz	QPSK	23205	25RB#0	4.5047	4.975	PASS
Band13	5MHz	16QAM	23205	25RB#0	4.5060	4.971	PASS
Band13	5MHz	QPSK	23230	25RB#0	4.5055	4.965	PASS
Band13	5MHz	16QAM	23230	25RB#0	4.5153	4.986	PASS
Band13	5MHz	QPSK	23255	25RB#0	4.5073	4.954	PASS
Band13	5MHz	16QAM	23255	25RB#0	4.5080	4.989	PASS
Band13	10MHz	QPSK	23230	50RB#0	9.0247	9.902	PASS
Band13	10MHz	16QAM	23230	50RB#0	9.0248	9.961	PASS





Test Graphs



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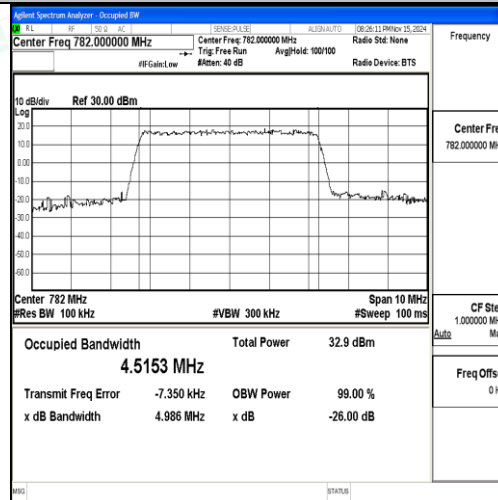
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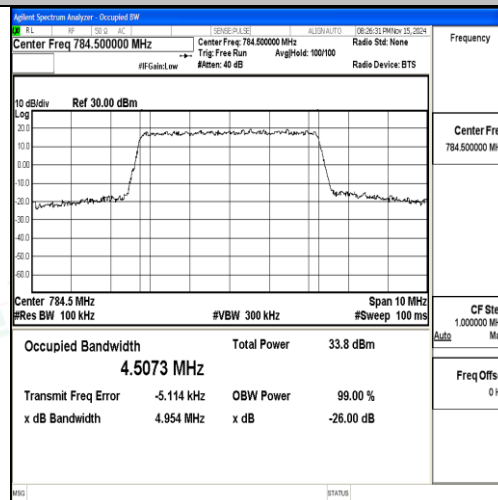
Scan code to check authenticity



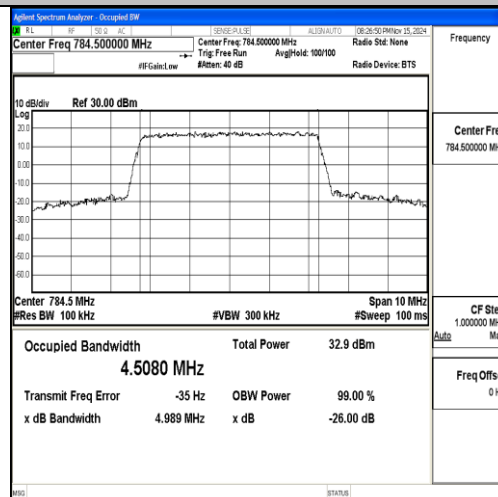
Band13-5MHz-QPSK-23230-25RB#0-PASS



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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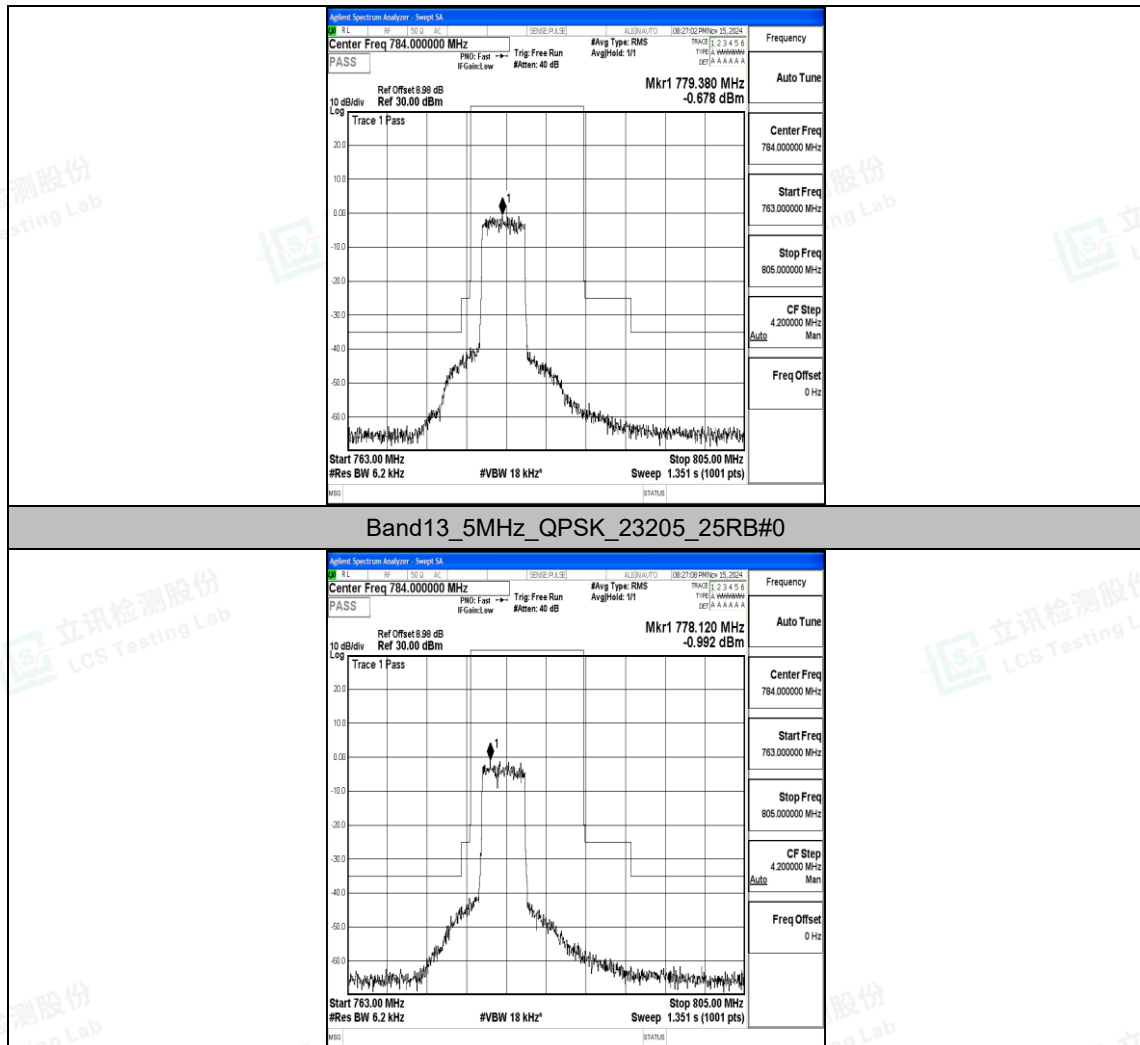


G.4 Band Edge

Test Result

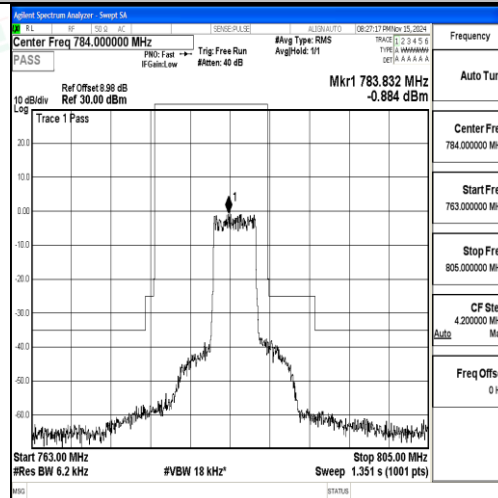
Band	Bandwidth	Modulation	Channel	RB Configuration	Peak Frequency	Result(dBm)	Verdict
Band13	5MHz	QPSK	23205	25RB#0	774.93	-43.28	PASS
Band13	5MHz	16QAM	23205	25RB#0	774.89	-44.49	PASS
Band13	5MHz	QPSK	23255	25RB#0	788.41	-38.19	PASS
Band13	5MHz	16QAM	23255	25RB#0	788.41	-39.68	PASS
Band13	10MHz	QPSK	23230	50RB#0	774.89	-45.29	PASS
Band13	10MHz	16QAM	23230	50RB#0	774.51	-47.53	PASS

Test Graphs

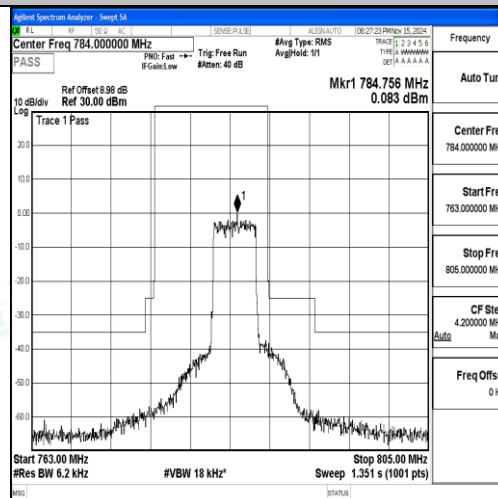




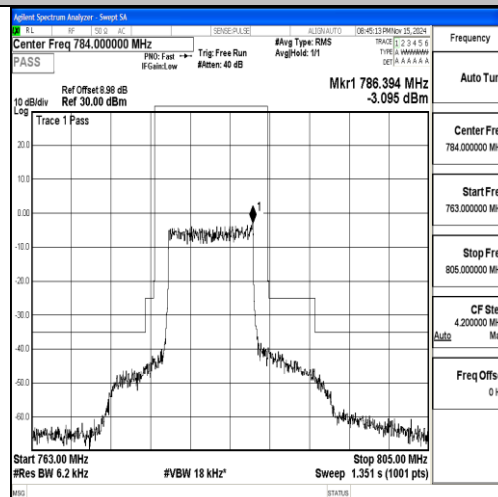
Band13_5MHz_16QAM_23205_25RB#0



Band13_5MHz_QPSK_23255_25RB#0



Band13_5MHz_16QAM_23255_25RB#0



Band13_10MHz_QPSK_23230_50RB#0

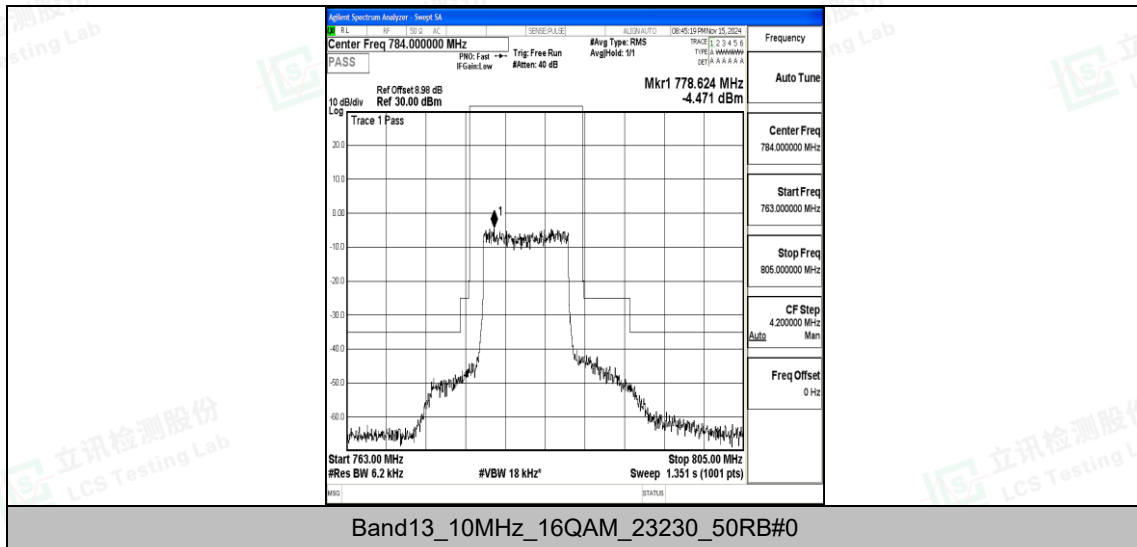


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G.5 Conducted Spurious Emission

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Frequency Range	Result (dBm)	Verdict
Band13	5MHz	QPSK	23205	1RB#0	0.009~0.15	-54.13	PASS
Band13	5MHz	QPSK	23205	1RB#0	0.15~30	-49.25	PASS
Band13	5MHz	QPSK	23205	1RB#0	30~1000	-59.81	PASS
Band13	5MHz	QPSK	23205	1RB#0	1000~3000	-39.21	PASS
Band13	5MHz	QPSK	23205	1RB#0	3000~10000	-42.06	PASS
Band13	5MHz	16QAM	23205	1RB#0	0.009~0.15	-54.23	PASS
Band13	5MHz	16QAM	23205	1RB#0	0.15~30	-51.02	PASS
Band13	5MHz	16QAM	23205	1RB#0	30~1000	-59.93	PASS
Band13	5MHz	16QAM	23205	1RB#0	1000~3000	-38.78	PASS
Band13	5MHz	16QAM	23205	1RB#0	3000~10000	-41.50	PASS
Band13	5MHz	QPSK	23230	1RB#0	0.009~0.15	-57.13	PASS
Band13	5MHz	QPSK	23230	1RB#0	0.15~30	-50.94	PASS
Band13	5MHz	QPSK	23230	1RB#0	30~1000	-59.56	PASS
Band13	5MHz	QPSK	23230	1RB#0	1000~3000	-38.88	PASS
Band13	5MHz	QPSK	23230	1RB#0	3000~10000	-41.80	PASS
Band13	5MHz	16QAM	23230	1RB#0	0.009~0.15	-56.11	PASS
Band13	5MHz	16QAM	23230	1RB#0	0.15~30	-51.88	PASS
Band13	5MHz	16QAM	23230	1RB#0	30~1000	-60.04	PASS
Band13	5MHz	16QAM	23230	1RB#0	1000~3000	-40.01	PASS
Band13	5MHz	16QAM	23230	1RB#0	3000~10000	-42.43	PASS
Band13	5MHz	QPSK	23255	1RB#0	0.009~0.15	-55.91	PASS
Band13	5MHz	QPSK	23255	1RB#0	0.15~30	-50.79	PASS
Band13	5MHz	QPSK	23255	1RB#0	30~1000	-59.94	PASS
Band13	5MHz	QPSK	23255	1RB#0	1000~3000	-40.48	PASS
Band13	5MHz	QPSK	23255	1RB#0	3000~10000	-41.88	PASS
Band13	5MHz	16QAM	23255	1RB#0	0.009~0.15	-57.22	PASS
Band13	5MHz	16QAM	23255	1RB#0	0.15~30	-49.21	PASS
Band13	5MHz	16QAM	23255	1RB#0	30~1000	-59.85	PASS
Band13	5MHz	16QAM	23255	1RB#0	1000~3000	-40.43	PASS
Band13	5MHz	16QAM	23255	1RB#0	3000~10000	-42.16	PASS
Band13	10MHz	QPSK	23230	1RB#0	0.009~0.15	-54.69	PASS
Band13	10MHz	QPSK	23230	1RB#0	0.15~30	-50.21	PASS
Band13	10MHz	QPSK	23230	1RB#0	30~1000	-59.97	PASS



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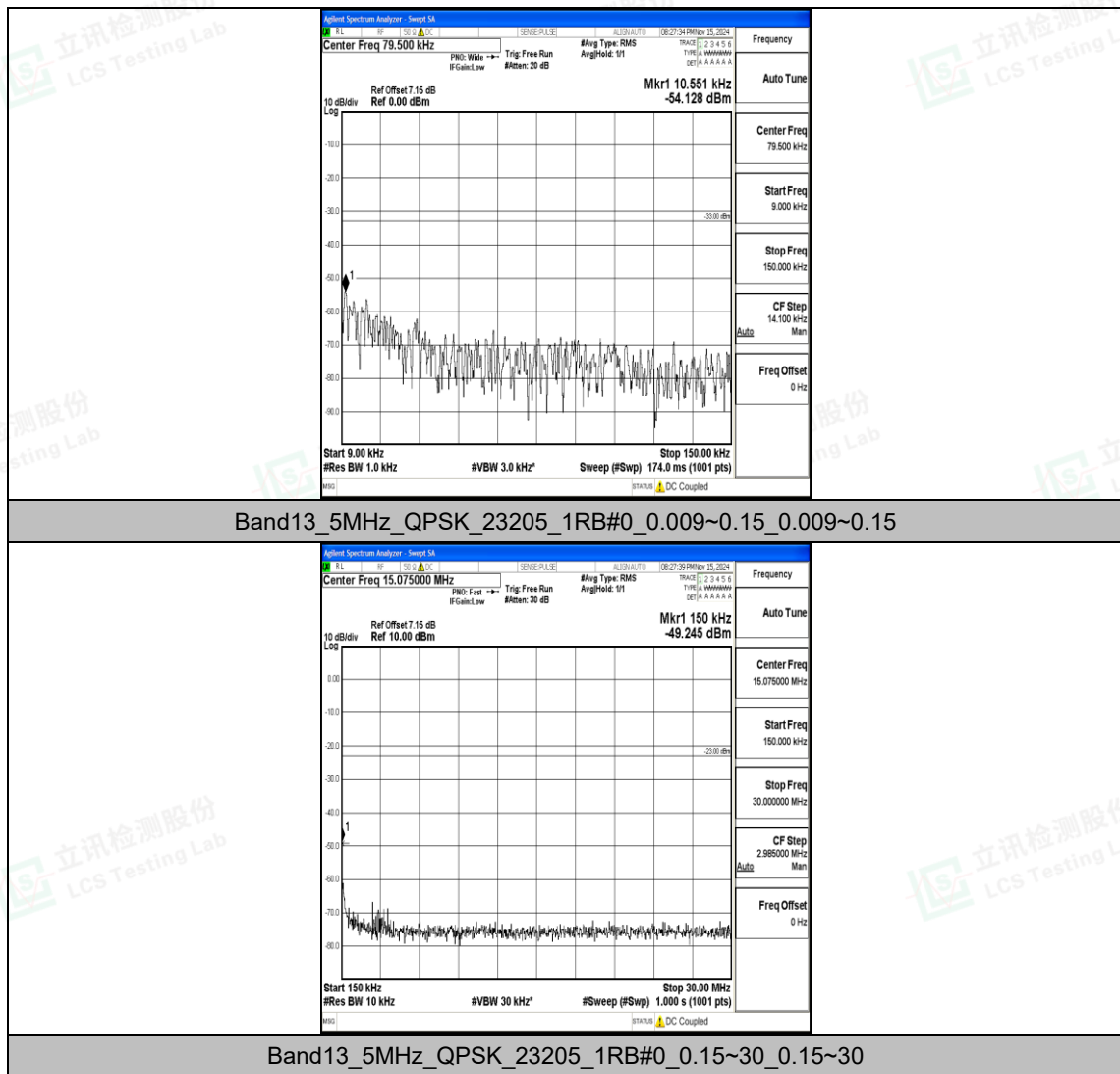
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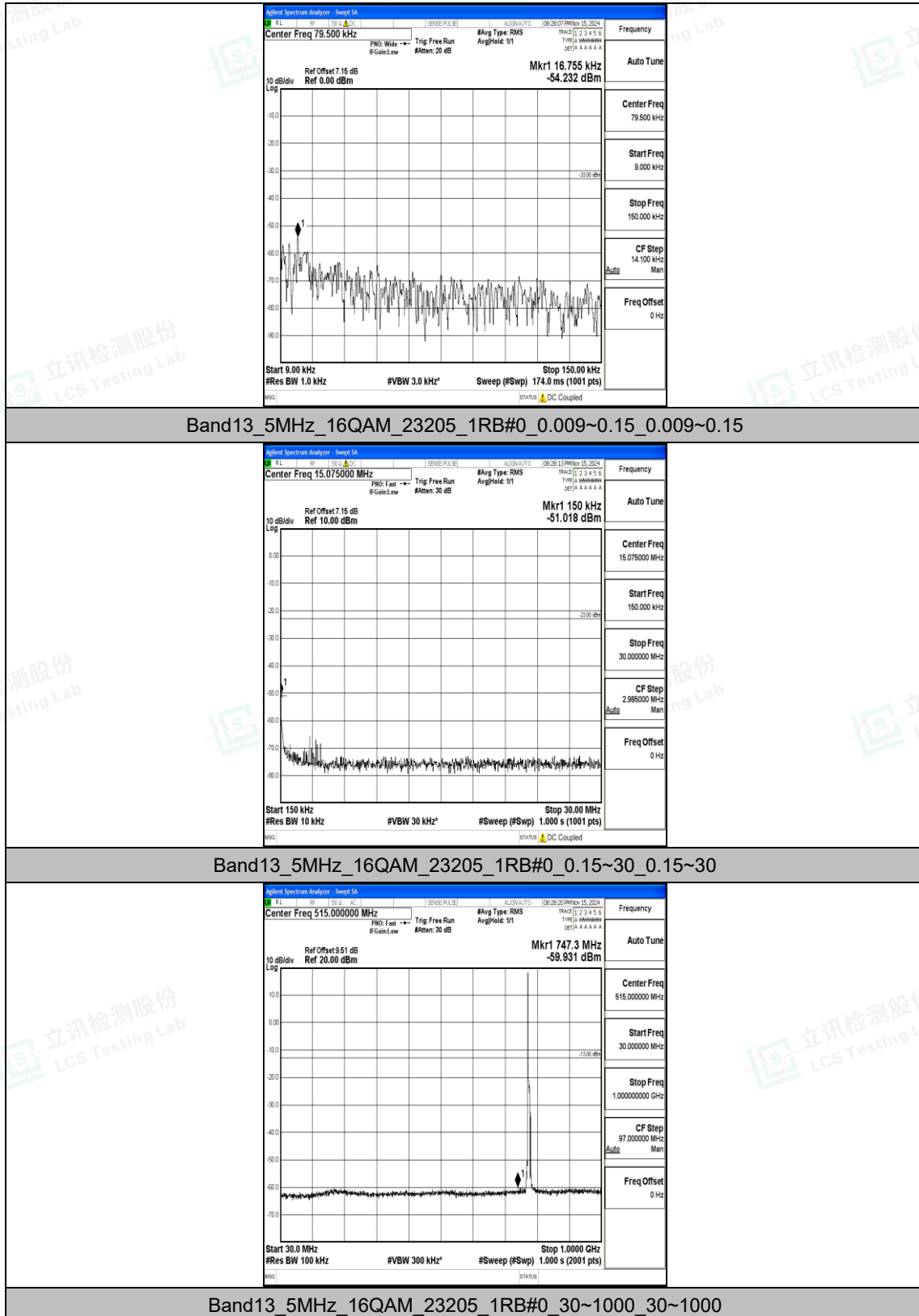


Band13	10MHz	QPSK	23230	1RB#0	1000~3000	-37.39	PASS
Band13	10MHz	QPSK	23230	1RB#0	3000~10000	-42.10	PASS
Band13	10MHz	16QAM	23230	1RB#0	0.009~0.15	-56.30	PASS
Band13	10MHz	16QAM	23230	1RB#0	0.15~30	-49.45	PASS
Band13	10MHz	16QAM	23230	1RB#0	30~1000	-60.07	PASS
Band13	10MHz	16QAM	23230	1RB#0	1000~3000	-38.02	PASS
Band13	10MHz	16QAM	23230	1RB#0	3000~10000	-42.15	PASS

Test Graphs





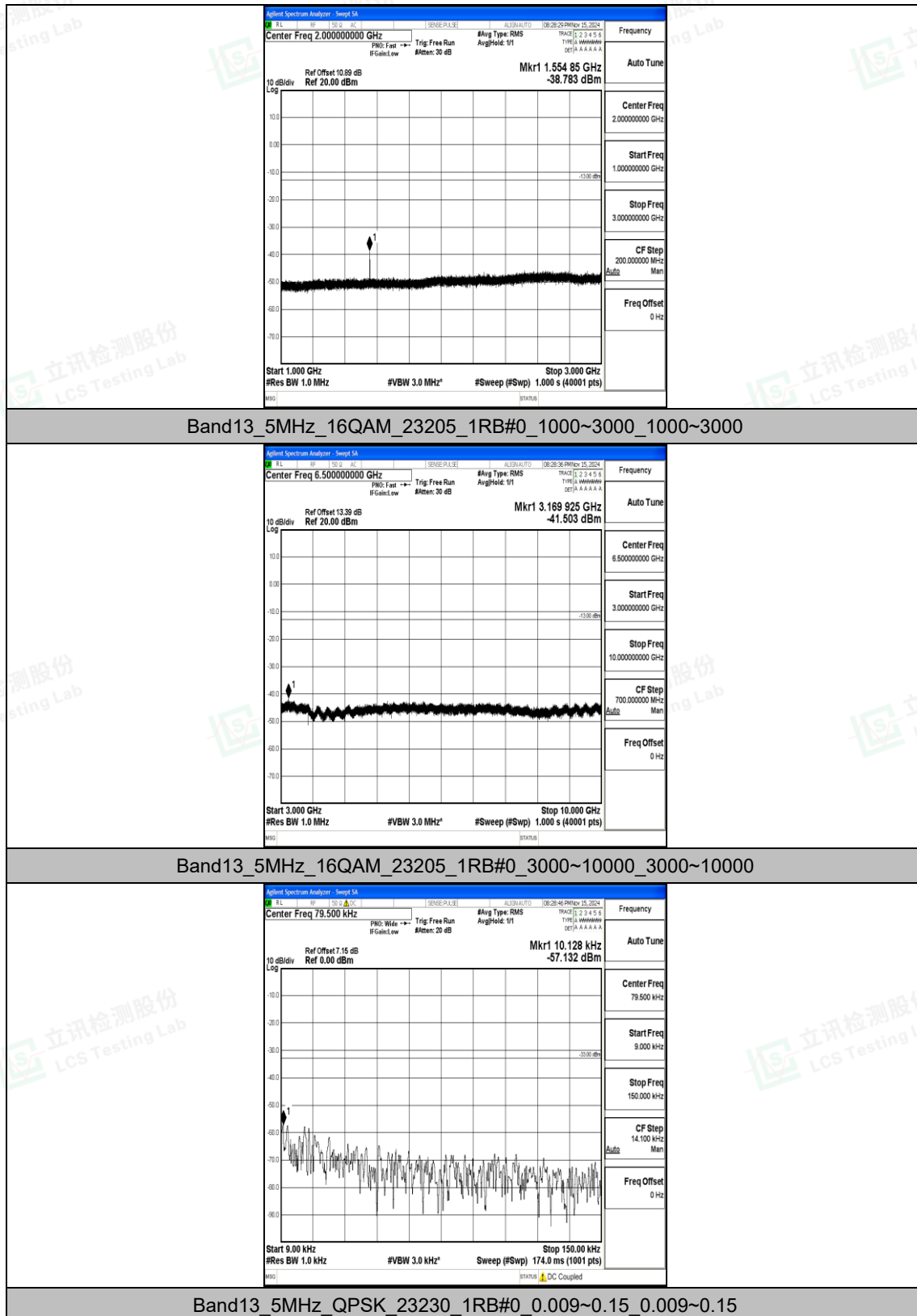


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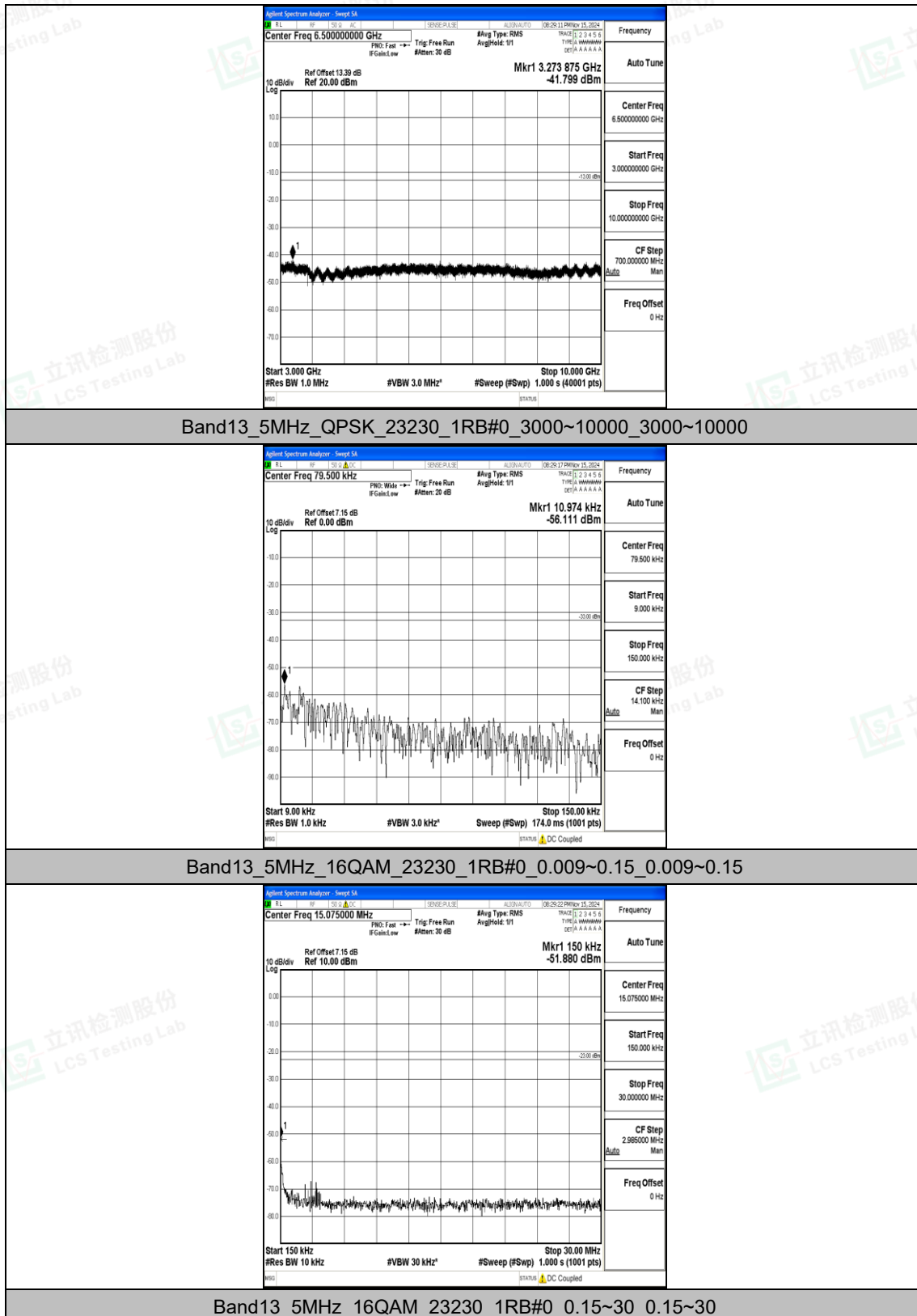
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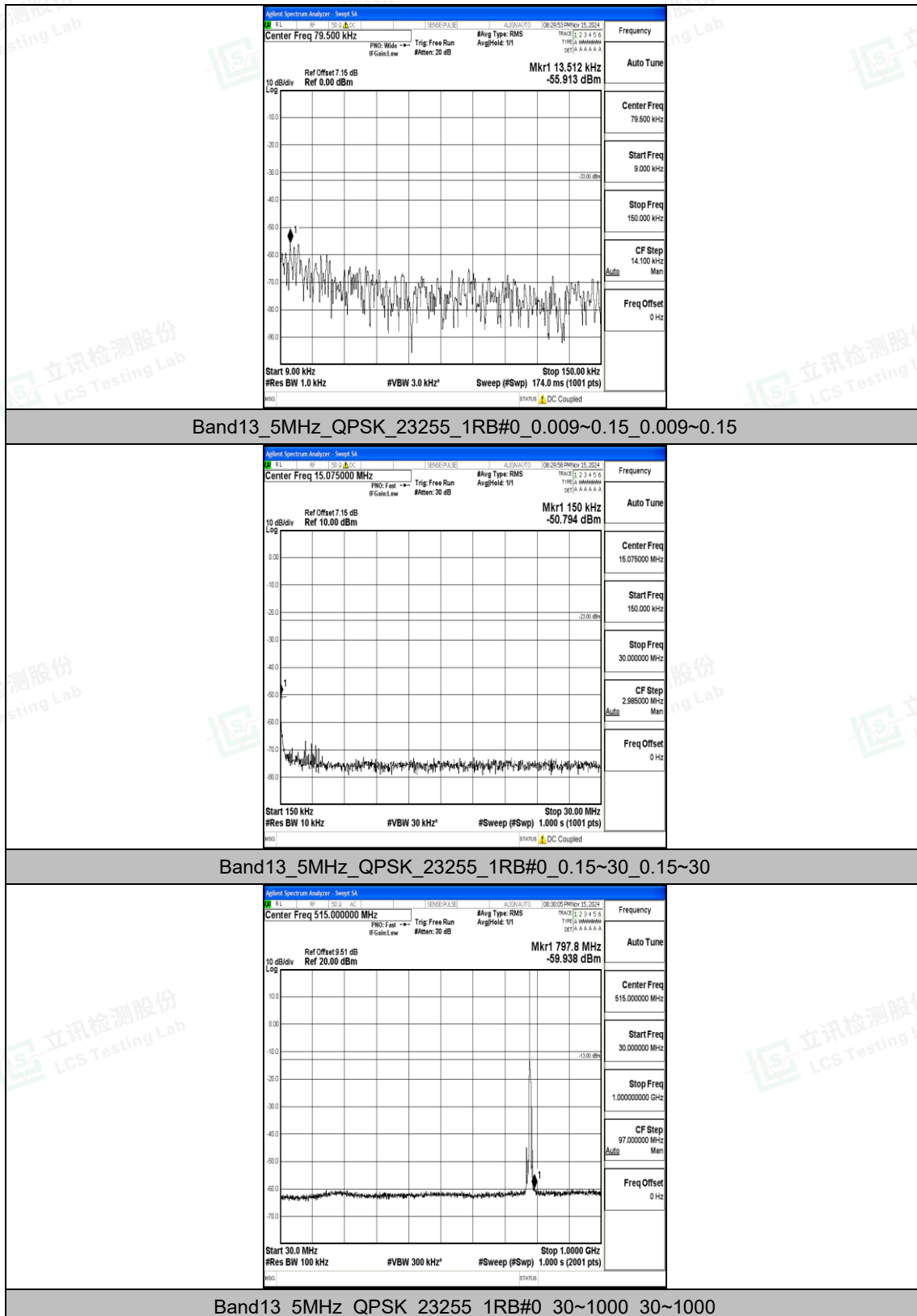
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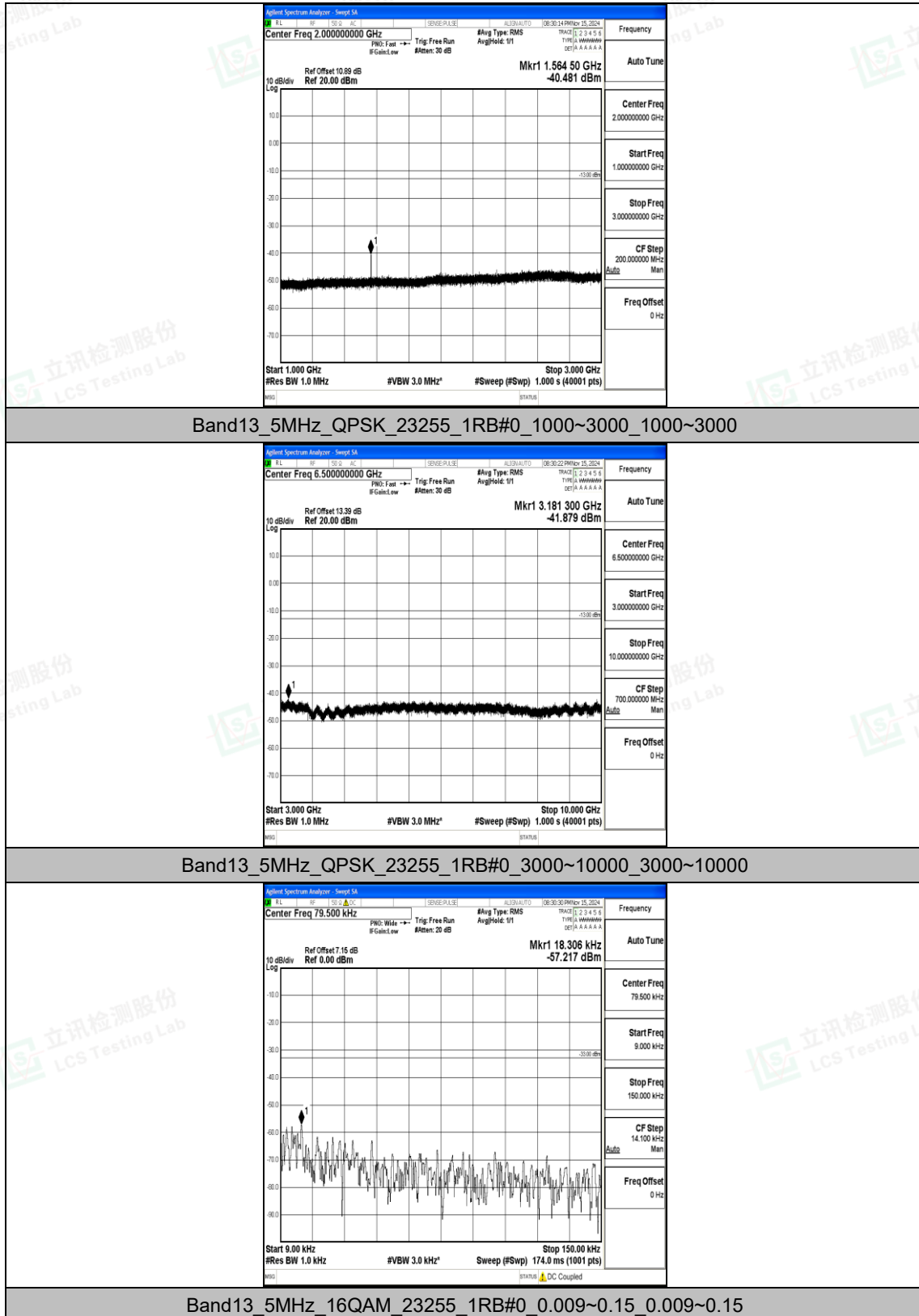
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