



Appendix K: Test Data for E-UTRA Band 17

Product Name: Smartphone

Test Model: Smooth 5

Environmental Conditions

Temperature:	23.8° C
Relative Humidity:	52.1%
ATM Pressure:	100.0 kPa
Test Engineer:	Taylor Hu
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	21.04	PASS
Band17	5MHz	16QAM	23755	1RB#0	21.08	PASS
Band17	5MHz	QPSK	23755	1RB#12	22.00	PASS
Band17	5MHz	16QAM	23755	1RB#12	21.34	PASS
Band17	5MHz	QPSK	23755	1RB#24	22.04	PASS
Band17	5MHz	16QAM	23755	1RB#24	21.24	PASS
Band17	5MHz	QPSK	23755	12RB#0	21.01	PASS
Band17	5MHz	16QAM	23755	12RB#0	20.05	PASS
Band17	5MHz	QPSK	23755	12RB#6	20.97	PASS
Band17	5MHz	16QAM	23755	12RB#6	20.00	PASS
Band17	5MHz	QPSK	23755	12RB#13	20.97	PASS
Band17	5MHz	16QAM	23755	12RB#13	20.03	PASS
Band17	5MHz	QPSK	23755	25RB#0	21.02	PASS
Band17	5MHz	16QAM	23755	25RB#0	19.99	PASS
Band17	5MHz	QPSK	23790	1RB#0	22.00	PASS
Band17	5MHz	16QAM	23790	1RB#0	21.07	PASS
Band17	5MHz	QPSK	23790	1RB#12	22.15	PASS
Band17	5MHz	16QAM	23790	1RB#12	21.20	PASS
Band17	5MHz	QPSK	23790	1RB#24	22.09	PASS
Band17	5MHz	16QAM	23790	1RB#24	21.16	PASS
Band17	5MHz	QPSK	23790	12RB#0	21.04	PASS
Band17	5MHz	16QAM	23790	12RB#0	20.03	PASS
Band17	5MHz	QPSK	23790	12RB#6	21.00	PASS
Band17	5MHz	16QAM	23790	12RB#6	20.08	PASS
Band17	5MHz	QPSK	23790	12RB#13	21.19	PASS
Band17	5MHz	16QAM	23790	12RB#13	20.17	PASS
Band17	5MHz	QPSK	23790	25RB#0	21.14	PASS
Band17	5MHz	16QAM	23790	25RB#0	20.13	PASS
Band17	5MHz	QPSK	23825	1RB#0	22.03	PASS
Band17	5MHz	16QAM	23825	1RB#0	21.10	PASS
Band17	5MHz	QPSK	23825	1RB#12	22.25	PASS
Band17	5MHz	16QAM	23825	1RB#12	21.30	PASS
Band17	5MHz	QPSK	23825	1RB#24	22.20	PASS
Band17	5MHz	16QAM	23825	1RB#24	21.28	PASS
Band17	5MHz	QPSK	23825	12RB#0	21.17	PASS
Band17	5MHz	16QAM	23825	12RB#0	20.10	PASS



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Band17	5MHz	QPSK	23825	12RB#6	21.15	PASS
Band17	5MHz	16QAM	23825	12RB#6	20.15	PASS
Band17	5MHz	QPSK	23825	12RB#13	21.06	PASS
Band17	5MHz	16QAM	23825	12RB#13	20.08	PASS
Band17	5MHz	QPSK	23825	25RB#0	21.19	PASS
Band17	5MHz	16QAM	23825	25RB#0	20.14	PASS
Band17	10MHz	QPSK	23780	1RB#0	21.81	PASS
Band17	10MHz	16QAM	23780	1RB#0	21.08	PASS
Band17	10MHz	QPSK	23780	1RB#24	22.11	PASS
Band17	10MHz	16QAM	23780	1RB#24	21.37	PASS
Band17	10MHz	QPSK	23780	1RB#49	22.03	PASS
Band17	10MHz	16QAM	23780	1RB#49	21.29	PASS
Band17	10MHz	QPSK	23780	25RB#0	21.20	PASS
Band17	10MHz	16QAM	23780	25RB#0	20.13	PASS
Band17	10MHz	QPSK	23780	25RB#12	21.19	PASS
Band17	10MHz	16QAM	23780	25RB#12	20.15	PASS
Band17	10MHz	QPSK	23780	25RB#25	21.28	PASS
Band17	10MHz	16QAM	23780	25RB#25	20.23	PASS
Band17	10MHz	QPSK	23780	50RB#0	21.20	PASS
Band17	10MHz	16QAM	23780	50RB#0	20.15	PASS
Band17	10MHz	QPSK	23790	1RB#0	21.86	PASS
Band17	10MHz	16QAM	23790	1RB#0	21.13	PASS
Band17	10MHz	QPSK	23790	1RB#24	22.16	PASS
Band17	10MHz	16QAM	23790	1RB#24	21.38	PASS
Band17	10MHz	QPSK	23790	1RB#49	22.16	PASS
Band17	10MHz	16QAM	23790	1RB#49	21.36	PASS
Band17	10MHz	QPSK	23790	25RB#0	21.16	PASS
Band17	10MHz	16QAM	23790	25RB#0	20.19	PASS
Band17	10MHz	QPSK	23790	25RB#12	21.15	PASS
Band17	10MHz	16QAM	23790	25RB#12	20.18	PASS
Band17	10MHz	QPSK	23790	25RB#25	21.17	PASS
Band17	10MHz	16QAM	23790	25RB#25	20.18	PASS
Band17	10MHz	QPSK	23790	50RB#0	21.20	PASS
Band17	10MHz	16QAM	23790	50RB#0	20.17	PASS
Band17	10MHz	QPSK	23800	1RB#0	21.96	PASS
Band17	10MHz	16QAM	23800	1RB#0	20.94	PASS
Band17	10MHz	QPSK	23800	1RB#24	22.08	PASS
Band17	10MHz	16QAM	23800	1RB#24	21.25	PASS
Band17	10MHz	QPSK	23800	1RB#49	22.20	PASS
Band17	10MHz	16QAM	23800	1RB#49	21.14	PASS



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Band17	10MHz	QPSK	23800	25RB#0	21.17	PASS
Band17	10MHz	16QAM	23800	25RB#0	20.23	PASS
Band17	10MHz	QPSK	23800	25RB#12	21.18	PASS
Band17	10MHz	16QAM	23800	25RB#12	20.18	PASS
Band17	10MHz	QPSK	23800	25RB#25	21.12	PASS
Band17	10MHz	16QAM	23800	25RB#25	20.06	PASS
Band17	10MHz	QPSK	23800	50RB#0	21.13	PASS
Band17	10MHz	16QAM	23800	50RB#0	20.08	PASS





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

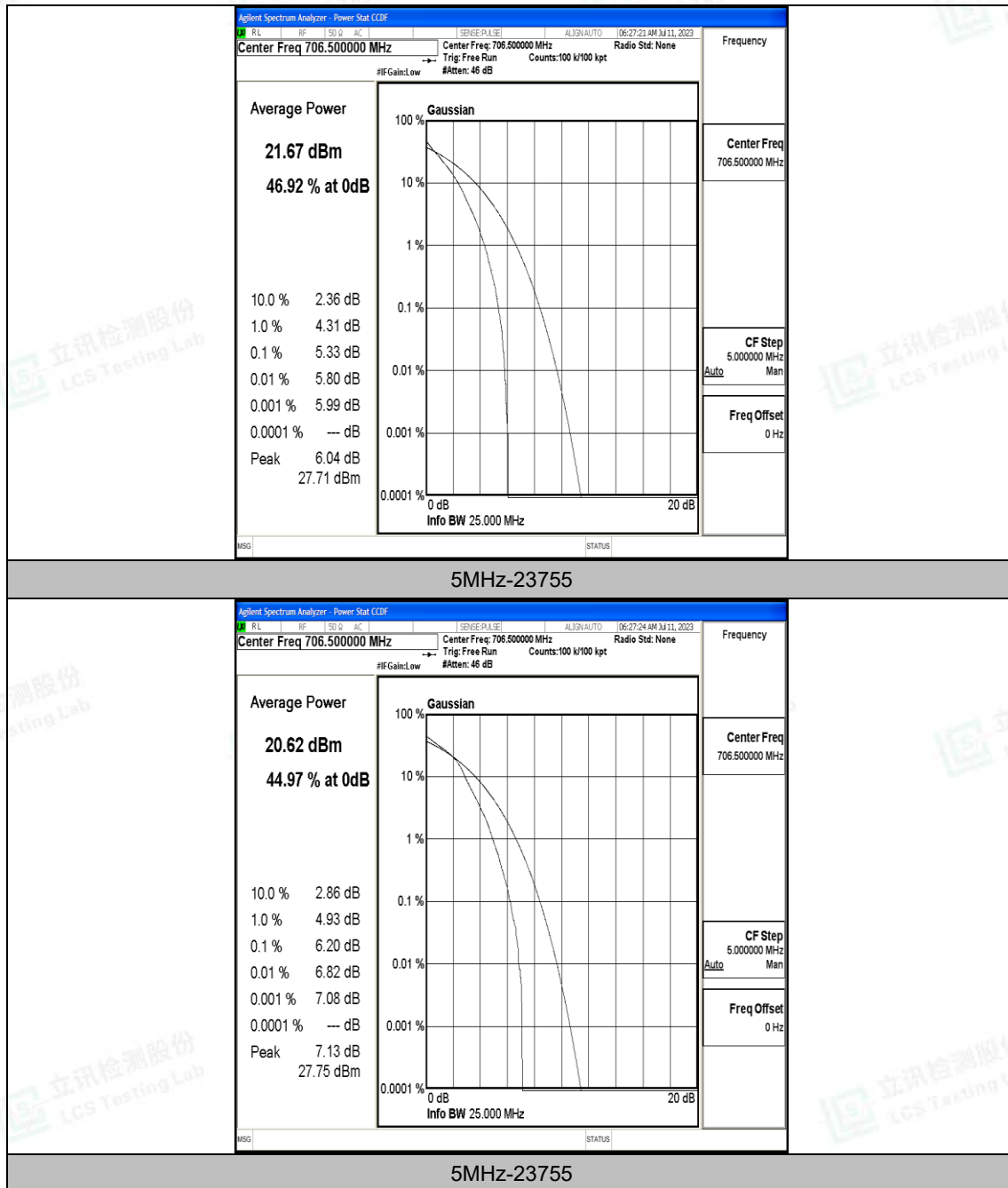
Test Result

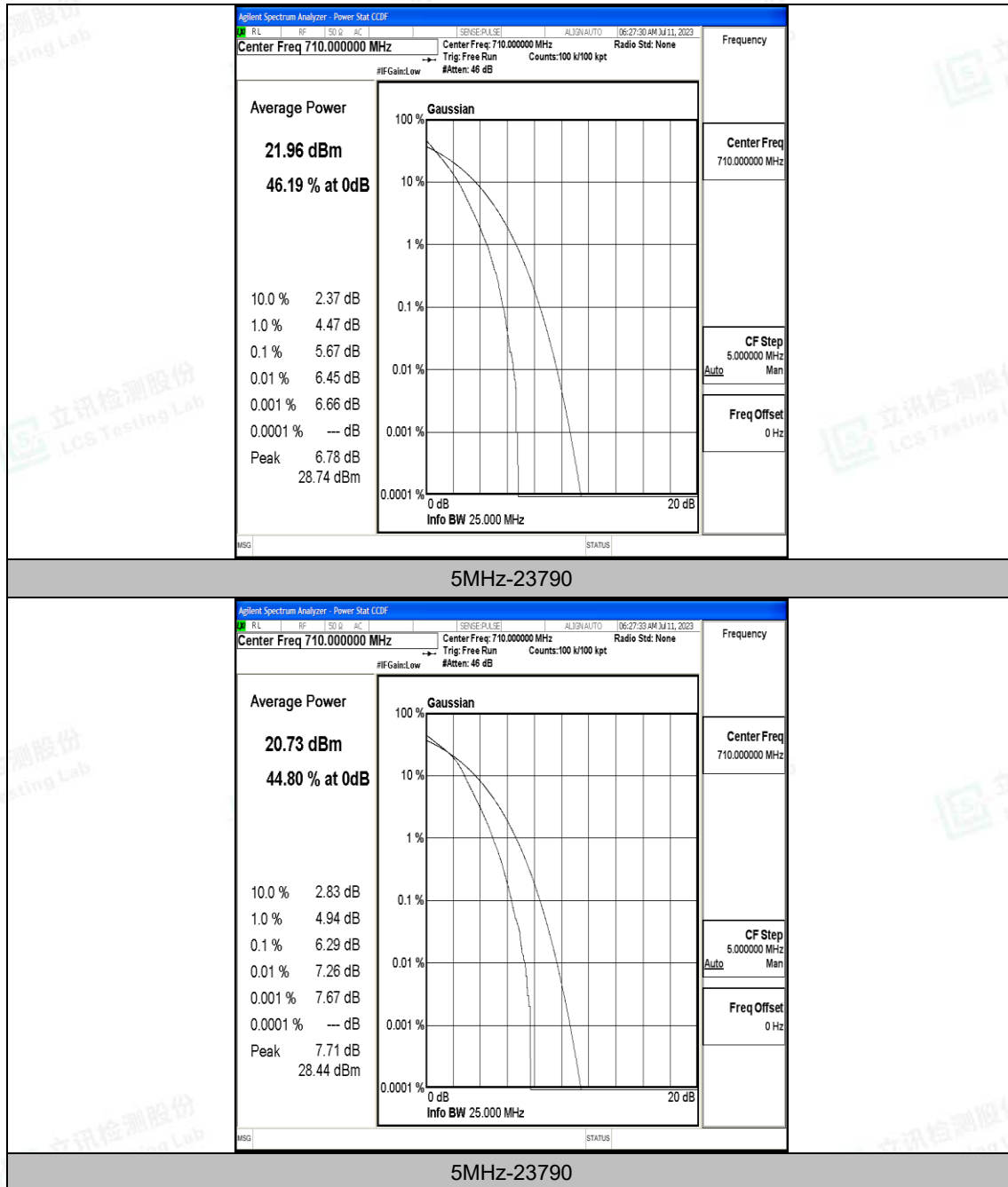
Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band17	5MHz	QPSK	23755	25RB#0	5.33	13	PASS
Band17	5MHz	16QAM	23755	25RB#0	6.20	13	PASS
Band17	5MHz	QPSK	23790	25RB#0	5.67	13	PASS
Band17	5MHz	16QAM	23790	25RB#0	6.29	13	PASS
Band17	5MHz	QPSK	23825	25RB#0	5.20	13	PASS
Band17	5MHz	16QAM	23825	25RB#0	6.07	13	PASS
Band17	10MHz	QPSK	23780	50RB#0	5.42	13	PASS
Band17	10MHz	16QAM	23780	50RB#0	6.21	13	PASS
Band17	10MHz	QPSK	23790	50RB#0	5.41	13	PASS
Band17	10MHz	16QAM	23790	50RB#0	6.26	13	PASS
Band17	10MHz	QPSK	23800	50RB#0	5.32	13	PASS
Band17	10MHz	16QAM	23800	50RB#0	6.22	13	PASS





Test Graphs



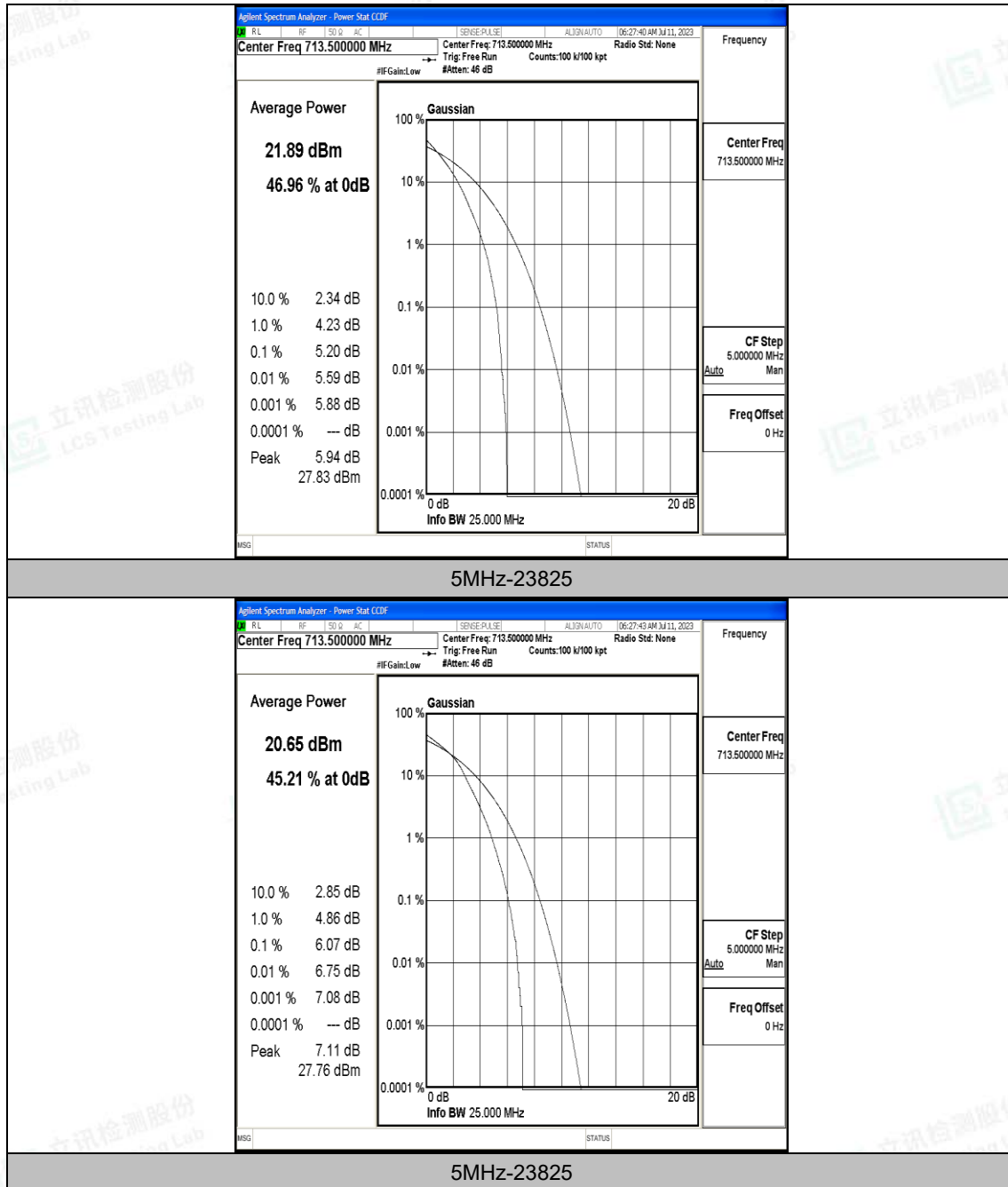


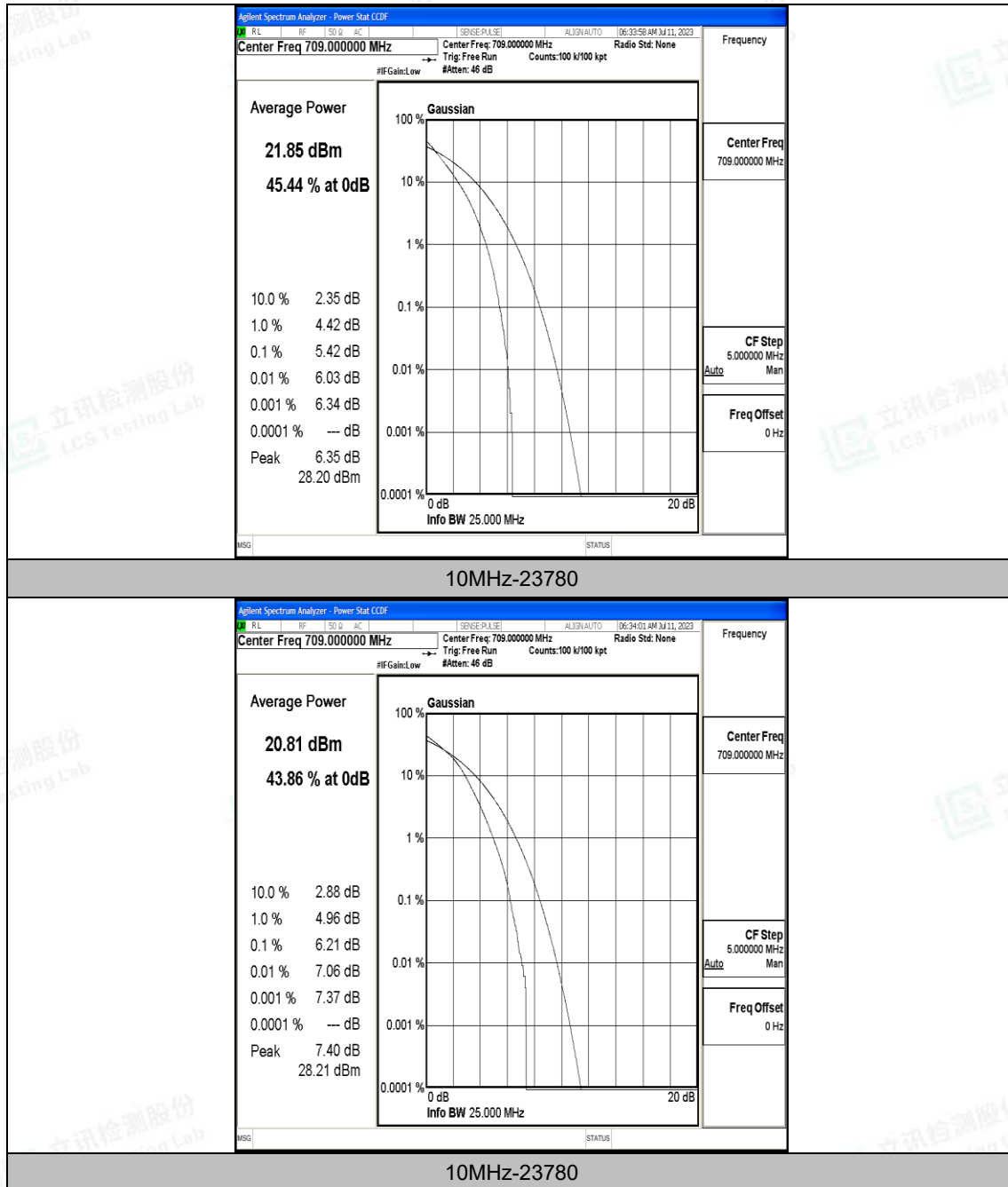
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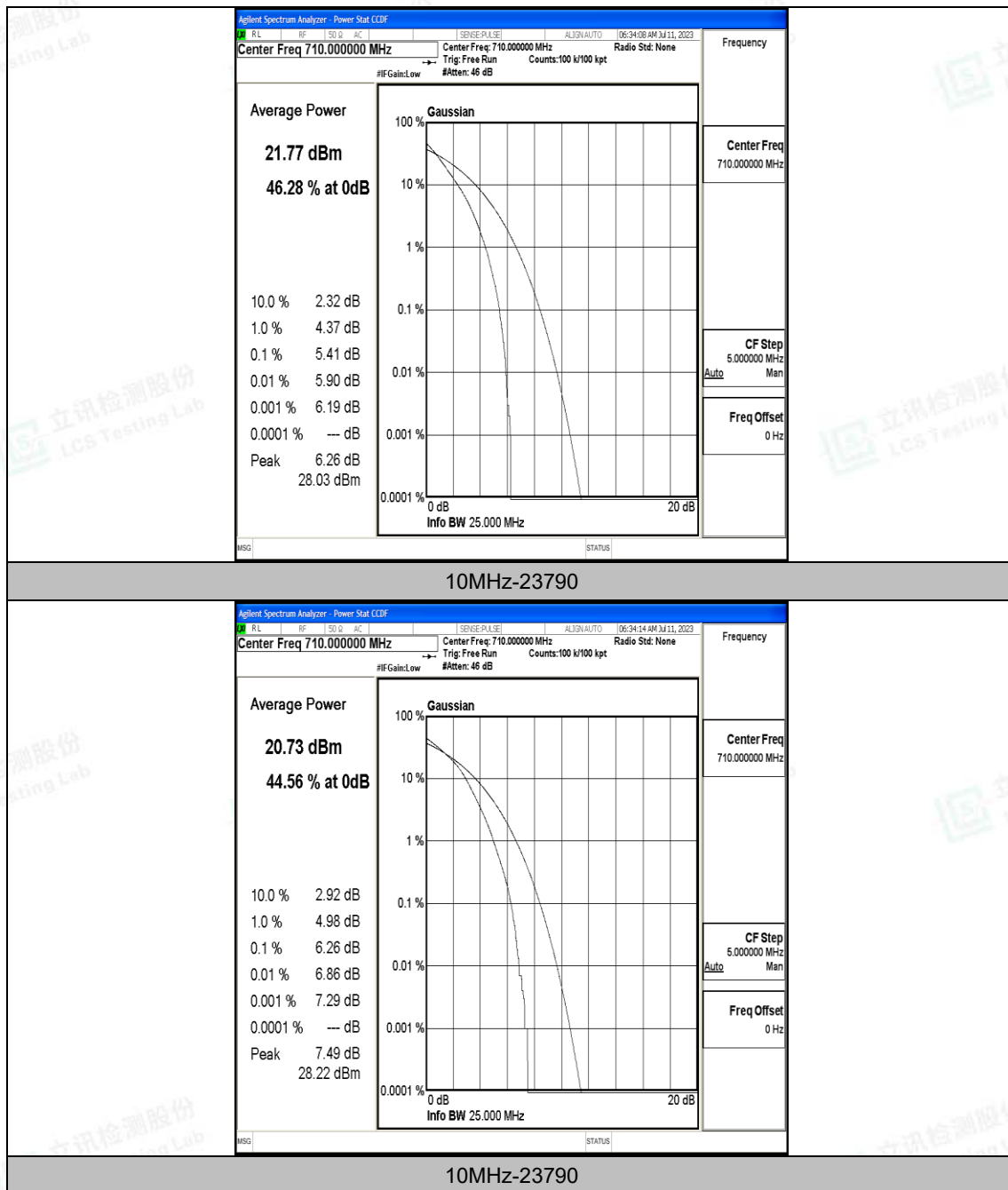
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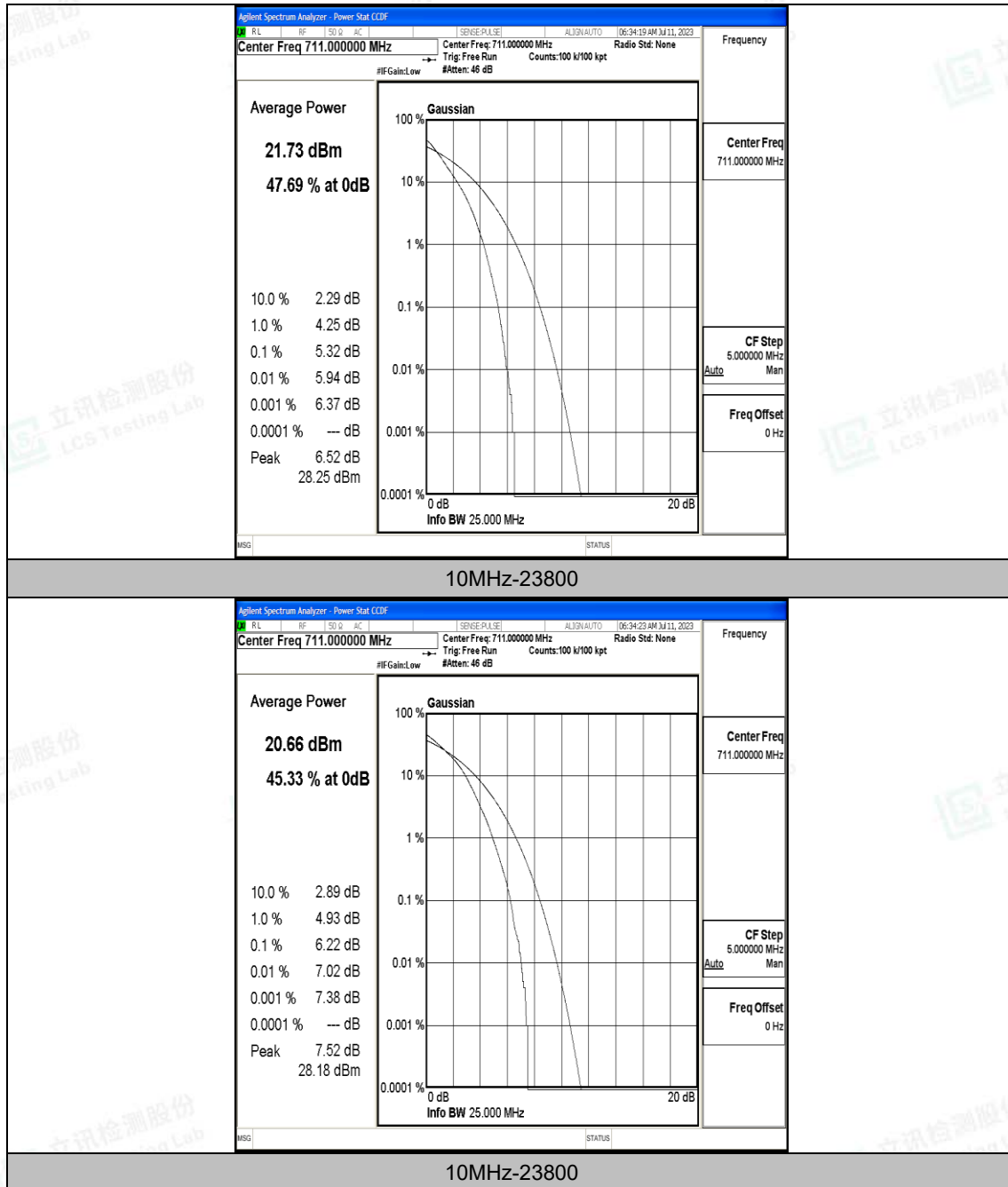
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K.3 26dB Bandwidth and Occupied Bandwidth

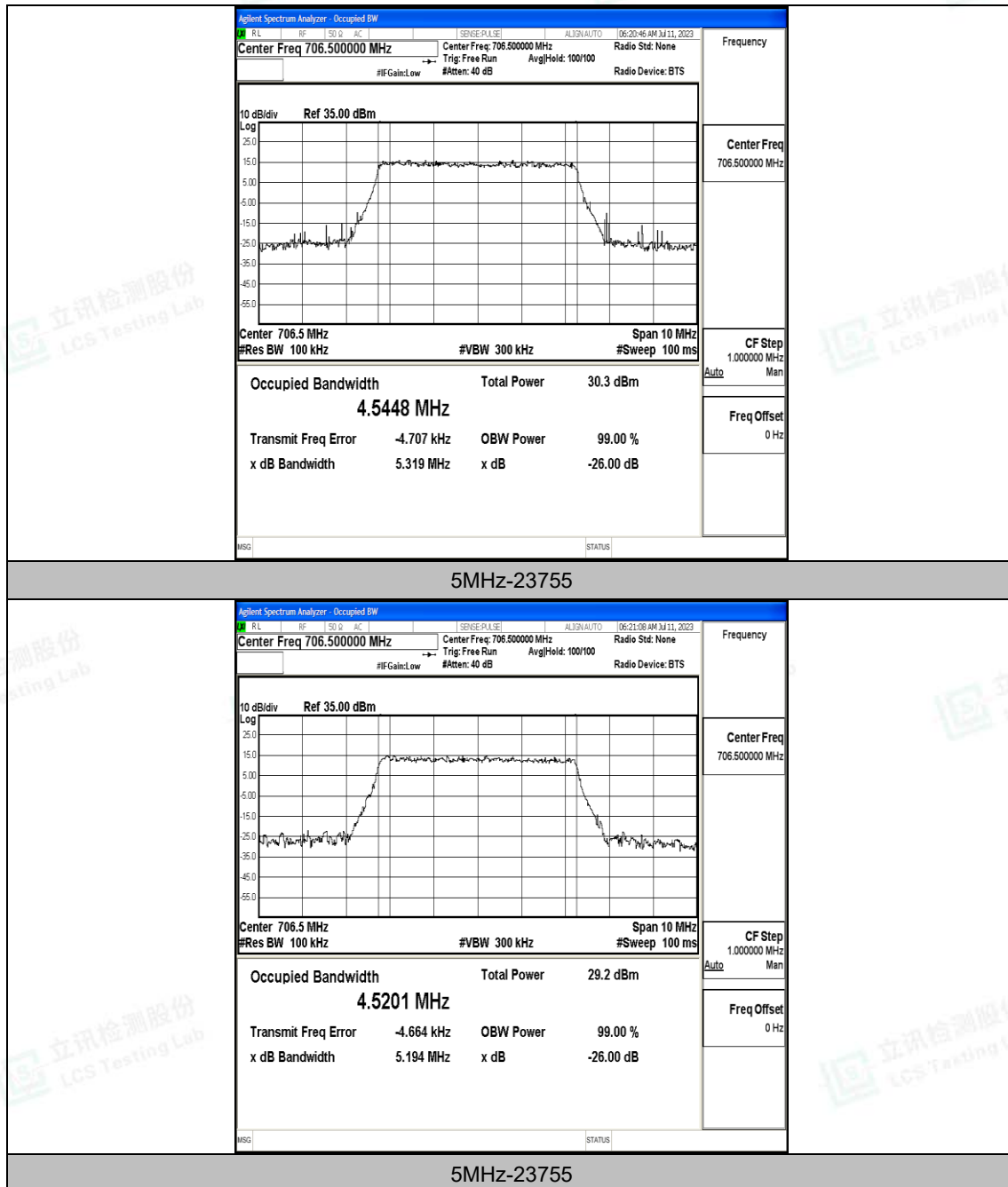
Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band17	5MHz	QPSK	23755	25RB#0	4.5448	5.319	PASS
Band17	5MHz	16QAM	23755	25RB#0	4.5201	5.194	PASS
Band17	5MHz	QPSK	23790	25RB#0	4.5213	5.134	PASS
Band17	5MHz	16QAM	23790	25RB#0	4.5102	5.138	PASS
Band17	5MHz	QPSK	23825	25RB#0	4.4949	5.105	PASS
Band17	5MHz	16QAM	23825	25RB#0	4.5252	5.159	PASS
Band17	10MHz	QPSK	23780	50RB#0	9.0404	10.19	PASS
Band17	10MHz	16QAM	23780	50RB#0	9.0379	10.01	PASS
Band17	10MHz	QPSK	23790	50RB#0	8.9879	10.06	PASS
Band17	10MHz	16QAM	23790	50RB#0	8.9942	10.00	PASS
Band17	10MHz	QPSK	23800	50RB#0	8.9624	10.05	PASS
Band17	10MHz	16QAM	23800	50RB#0	8.9663	10.01	PASS





Test Graphs



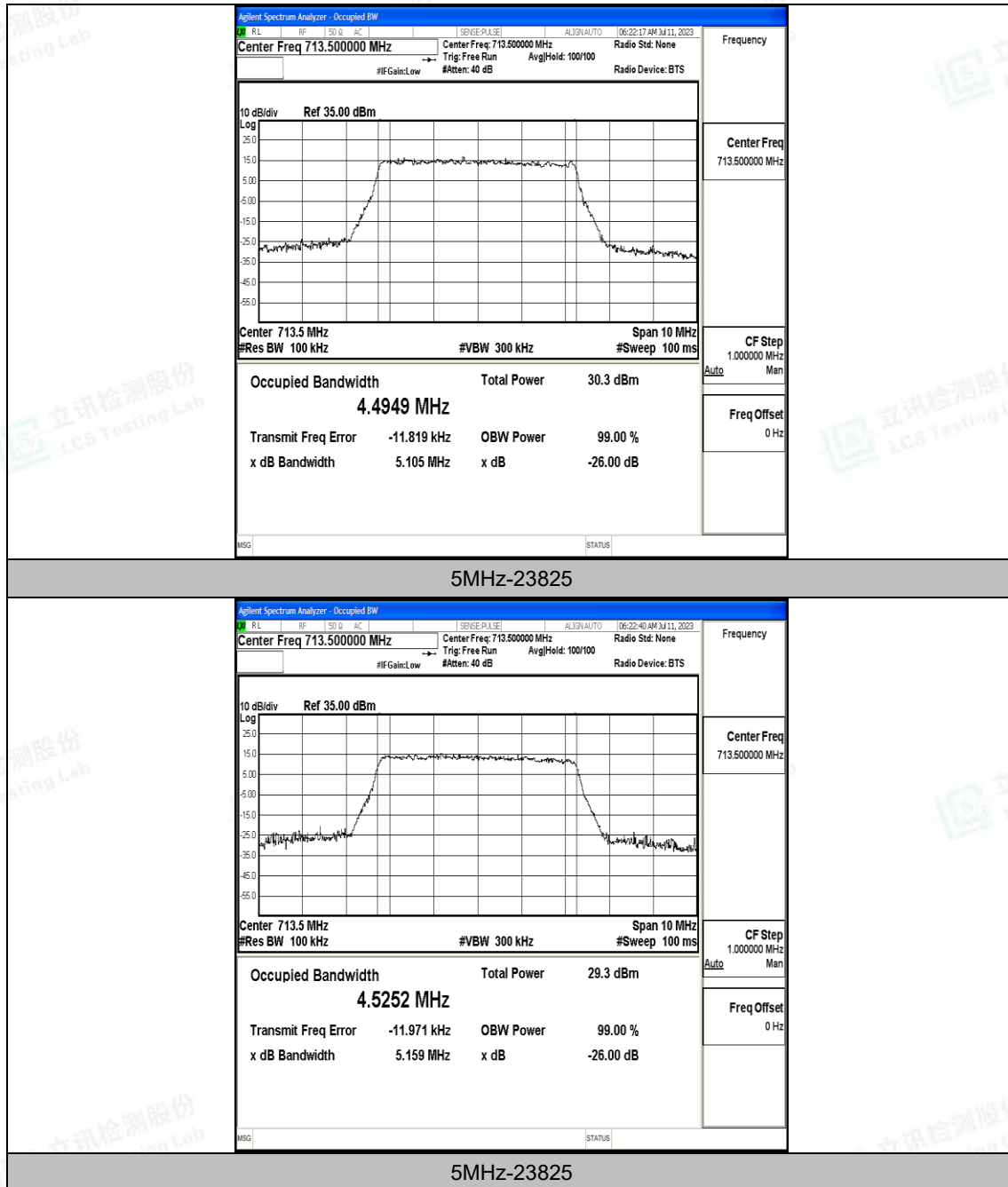


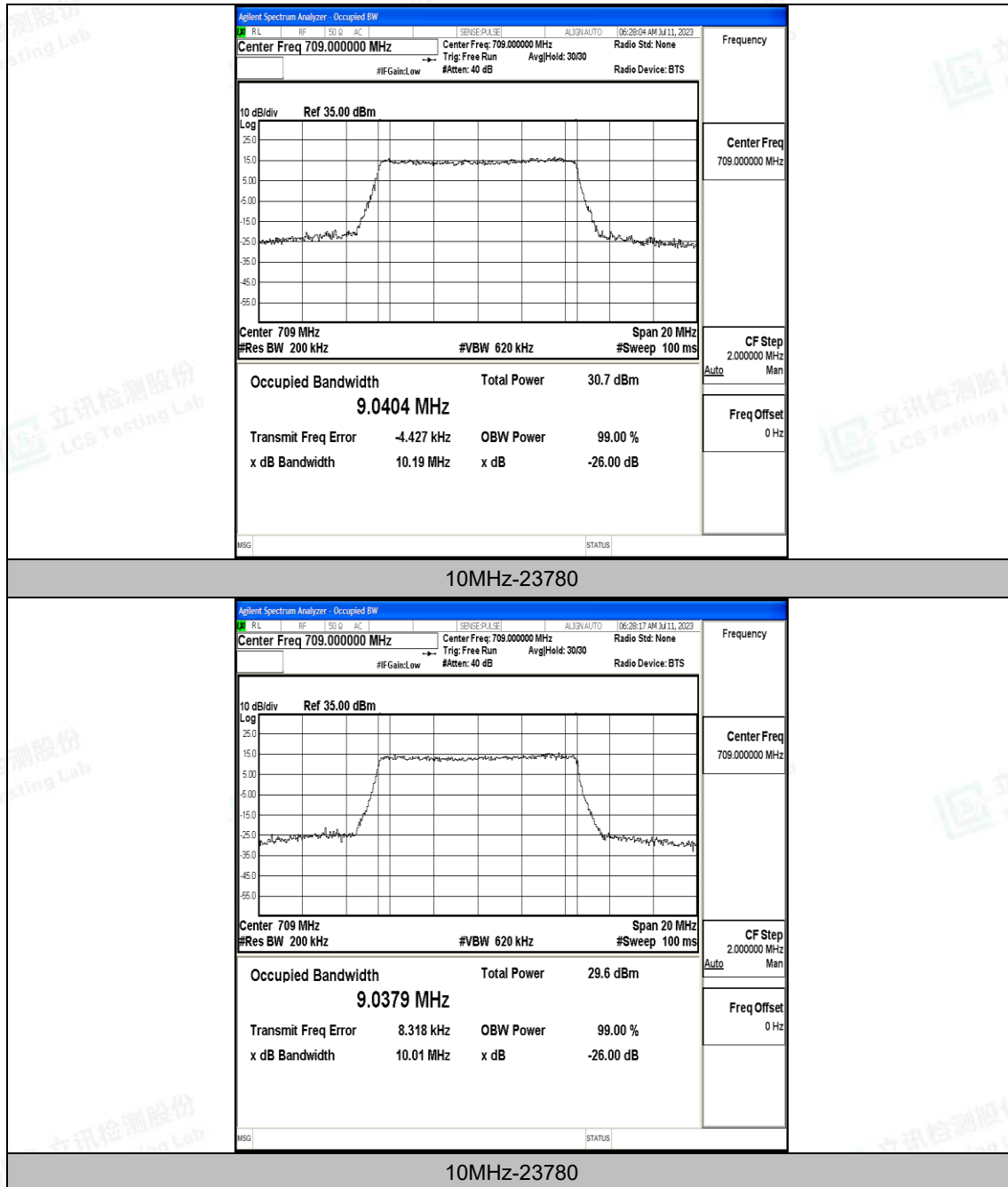
Shenzhen LCS Compliance Testing Laboratory Ltd.

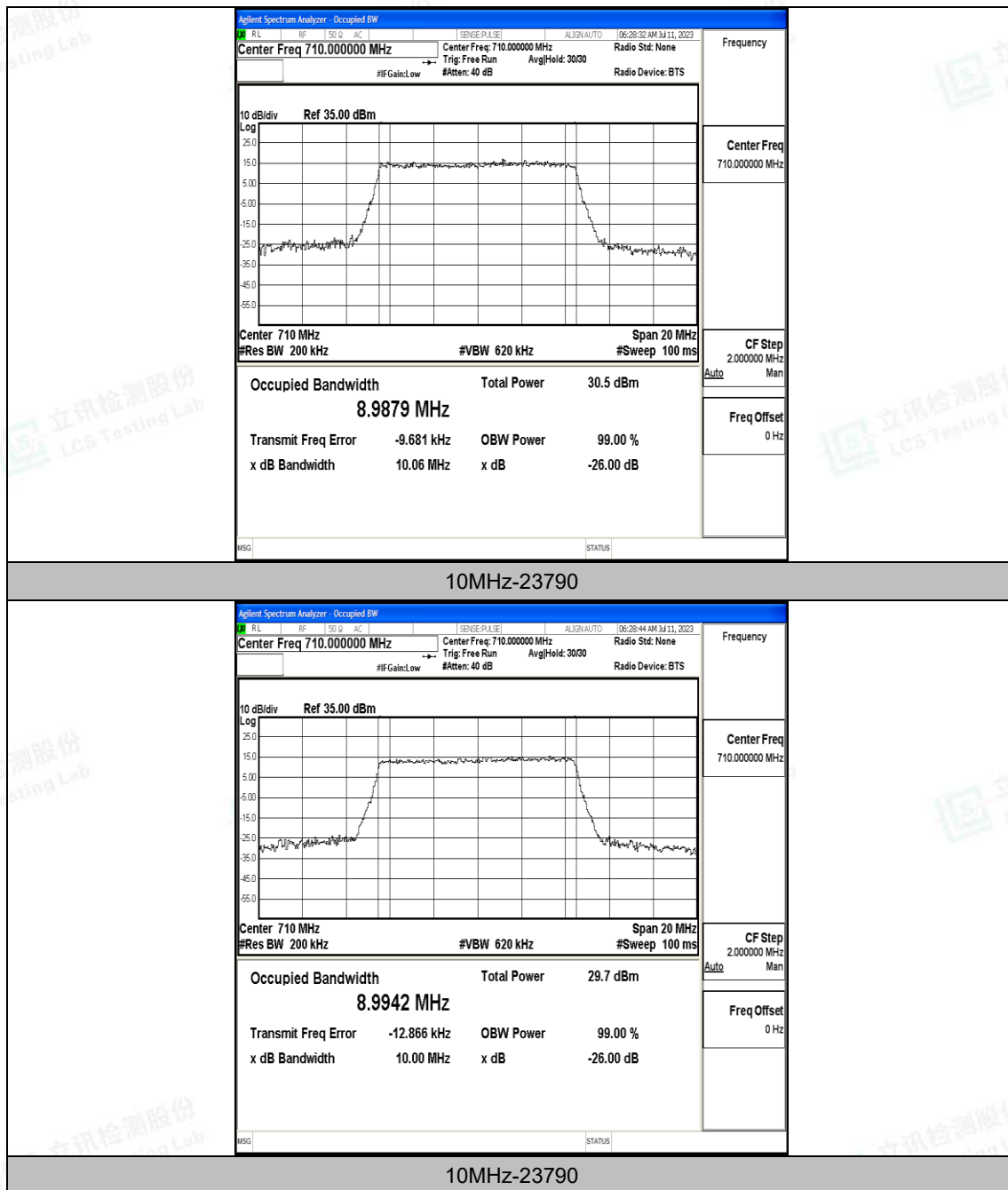
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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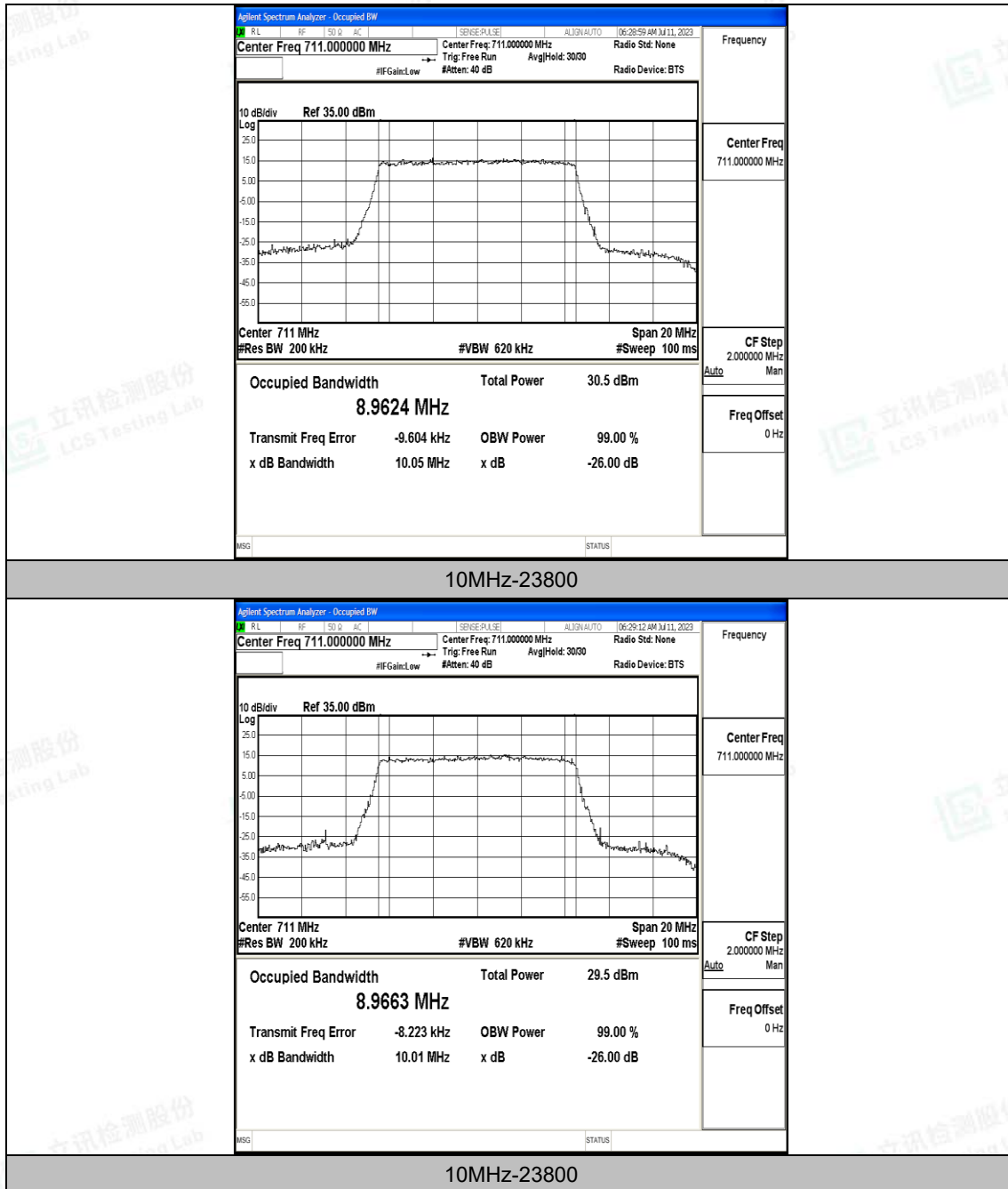


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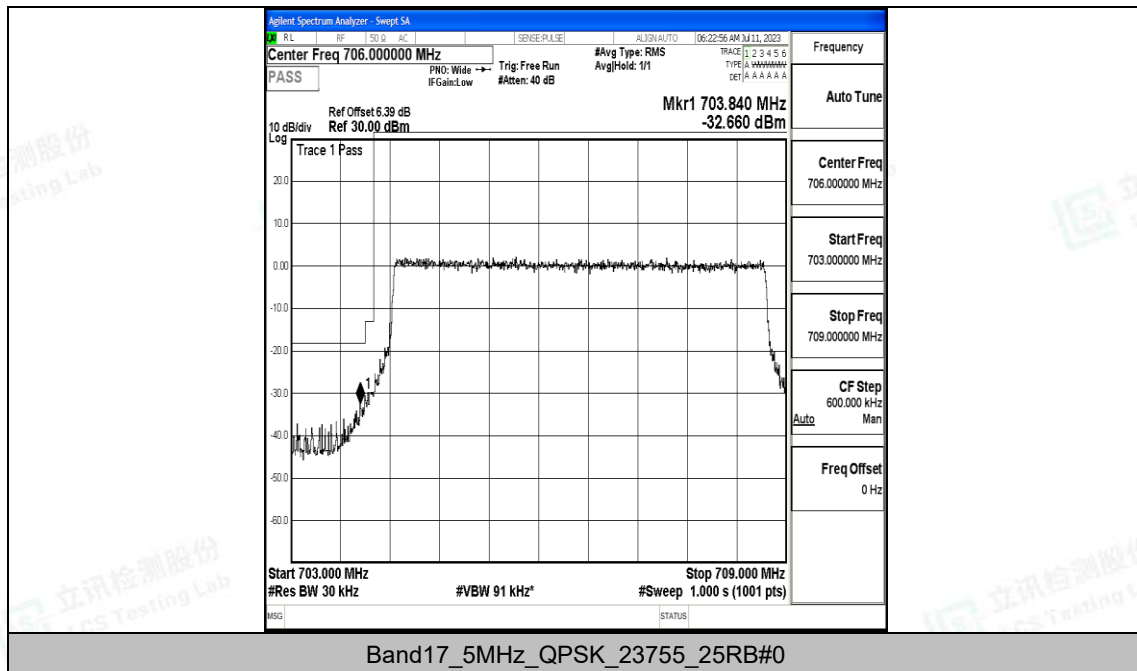


K.4 Band Edge

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Peak Frequency	Result(dBm)	Verdict
Band17	5MHz	QPSK	23755	25RB#0	703.84	-32.66	PASS
Band17	5MHz	16QAM	23755	25RB#0	703.89	-34.06	PASS
Band17	5MHz	QPSK	23825	25RB#0	716.11	-32.56	PASS
Band17	5MHz	16QAM	23825	25RB#0	716.11	-35.59	PASS
Band17	10MHz	QPSK	23780	50RB#0	703.87	-37.77	PASS
Band17	10MHz	16QAM	23780	50RB#0	703.88	-39.58	PASS
Band17	10MHz	QPSK	23800	50RB#0	716.18	-40.89	PASS
Band17	10MHz	16QAM	23800	50RB#0	716.14	-41.34	PASS

Test Graphs

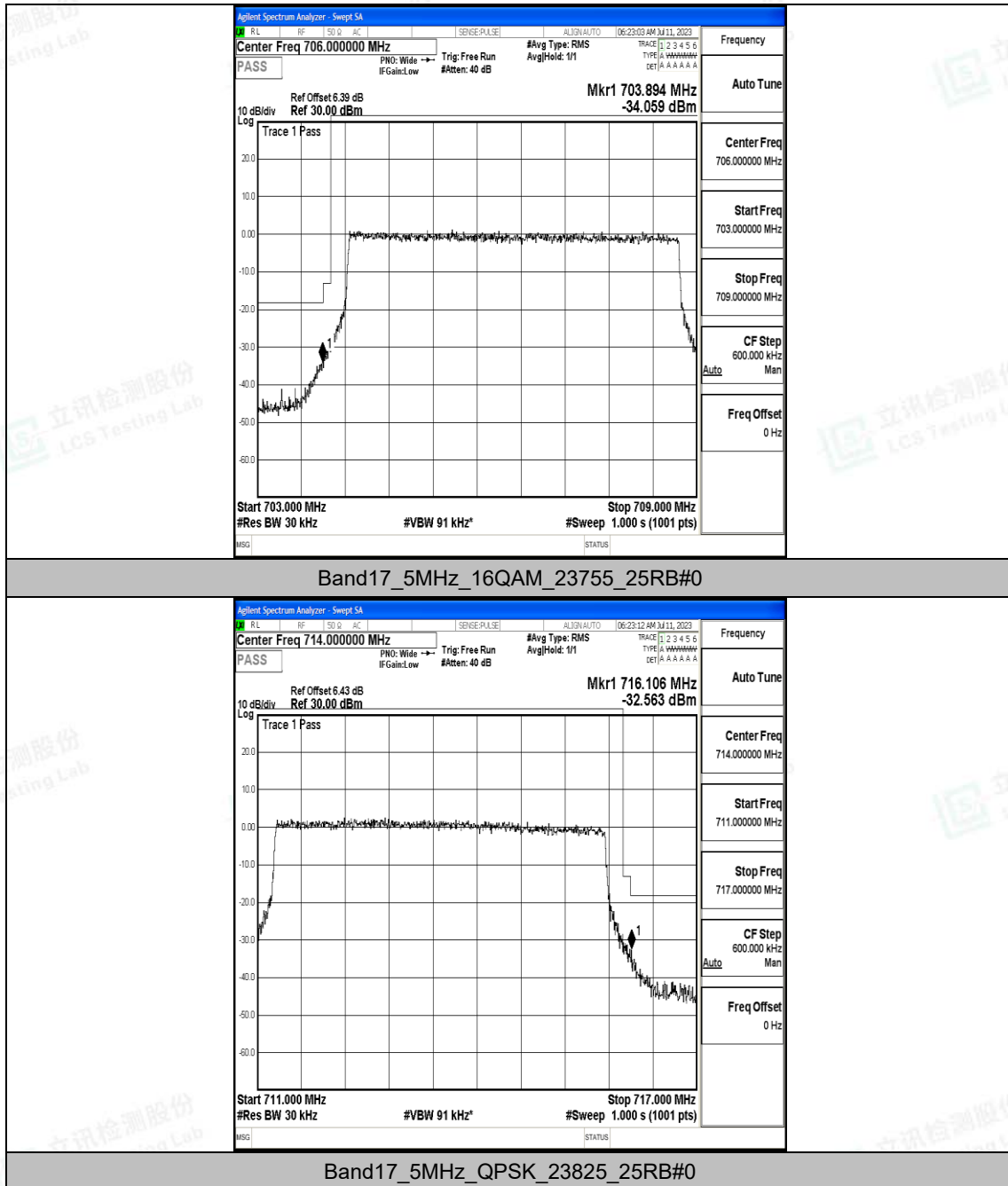


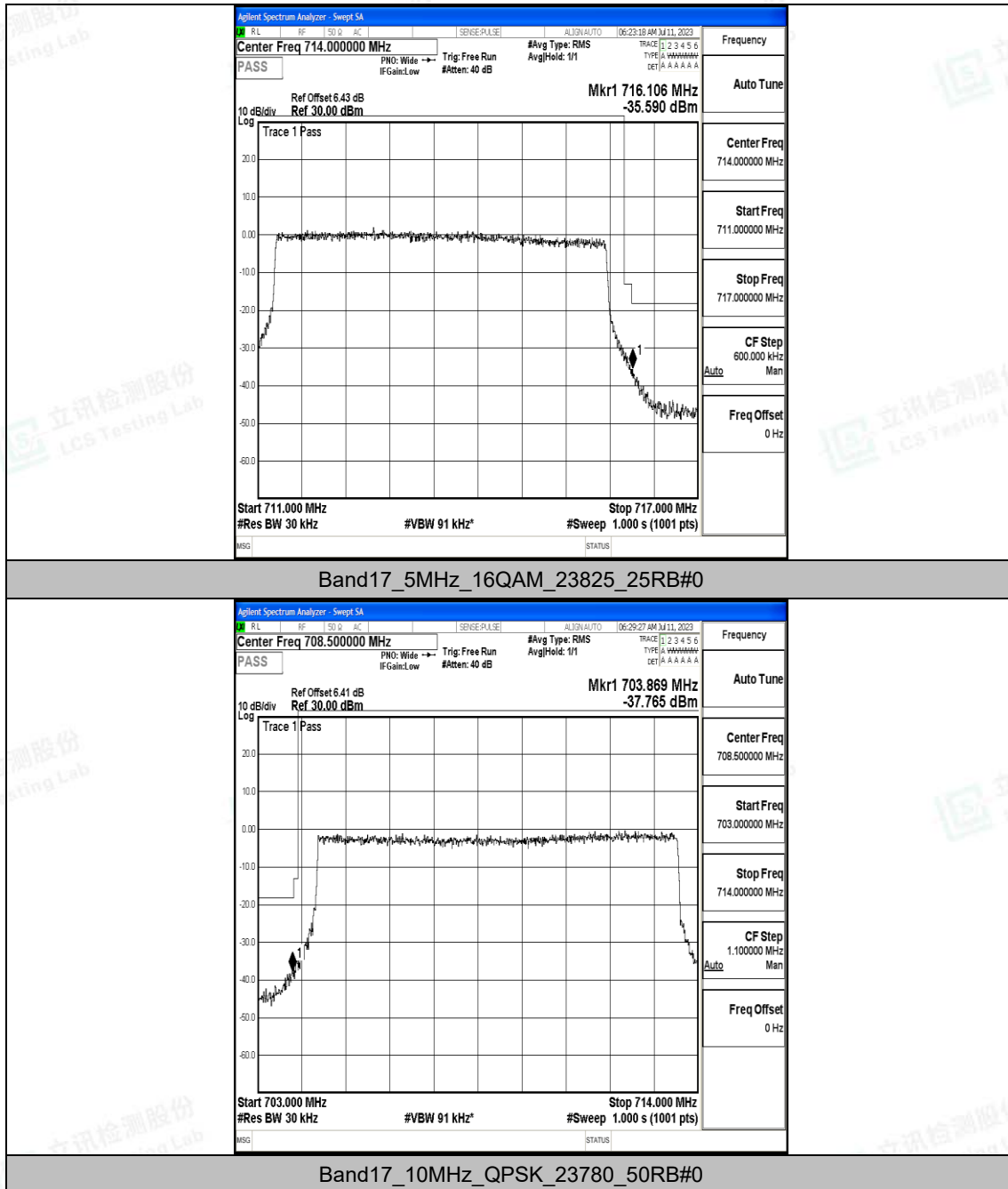
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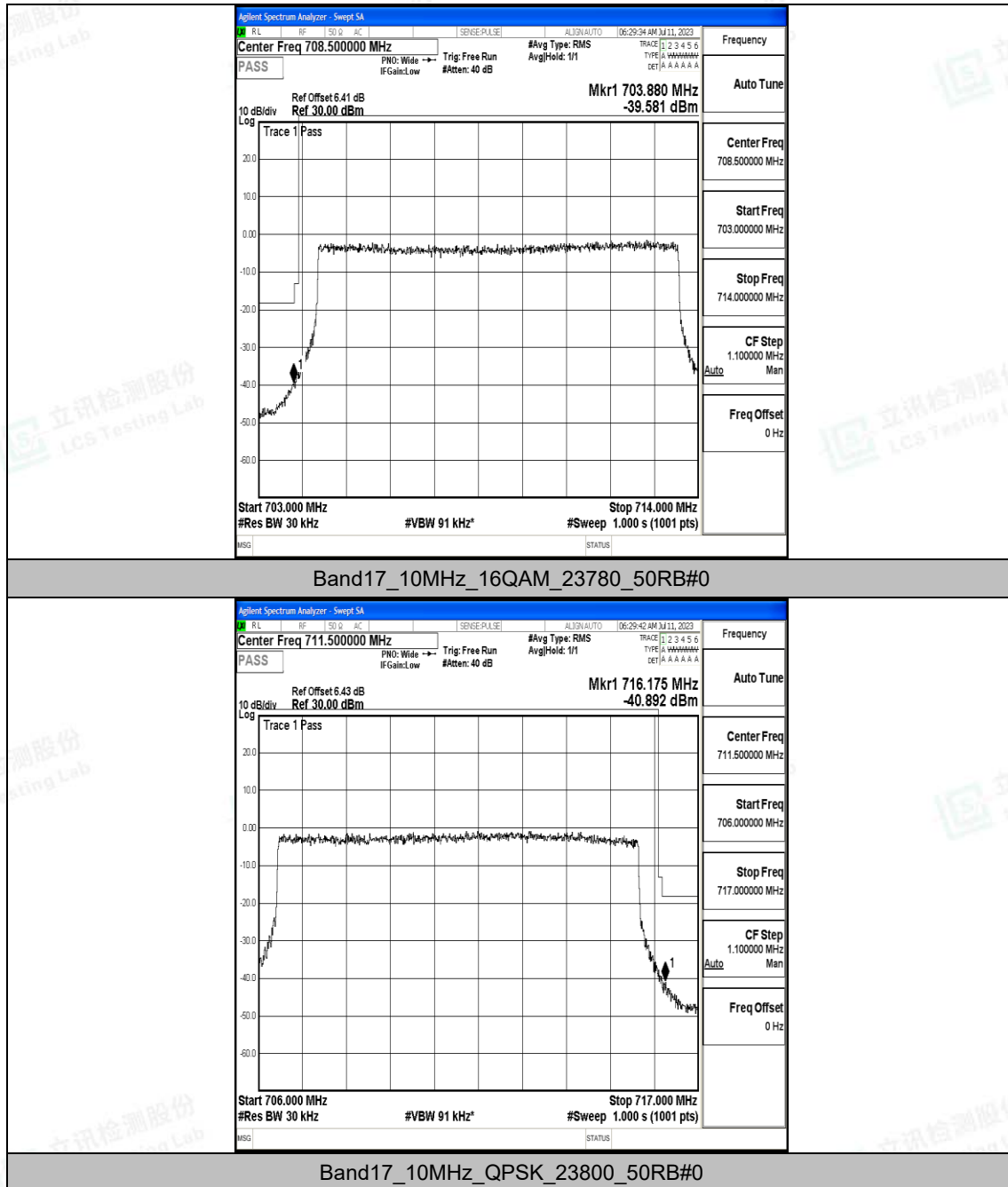
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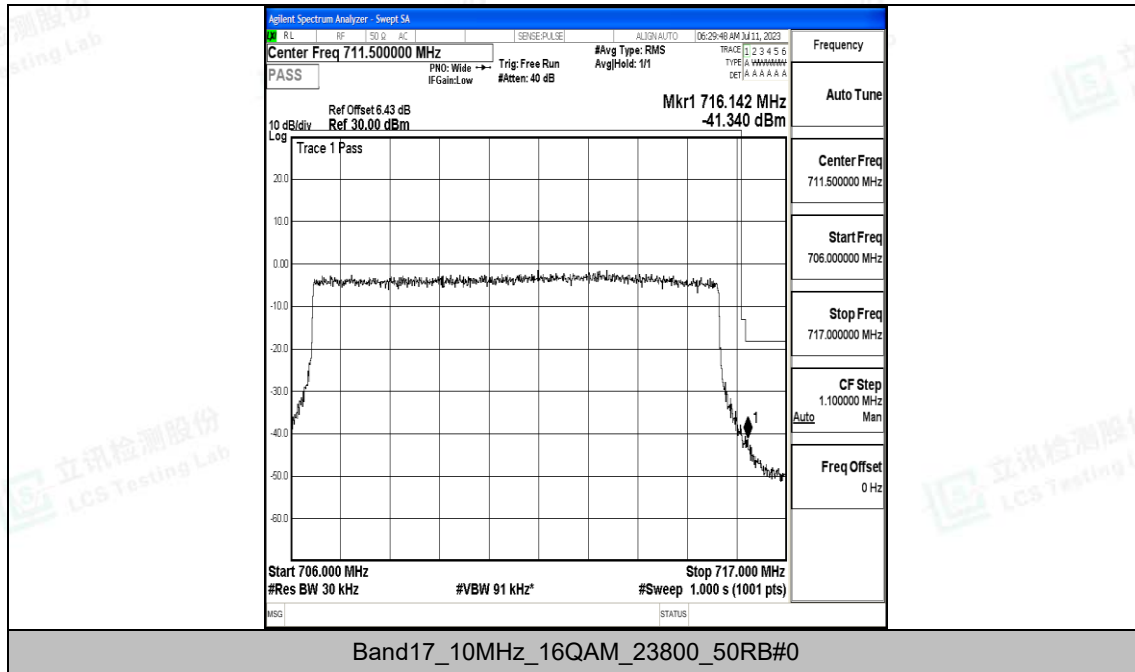
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K.5 Conducted Spurious Emission

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Frequency Range	Result (dBm)	Verdict
Band17	5MHz	QPSK	23755	1RB#0	0.009~0.15	-60.05	PASS
Band17	5MHz	QPSK	23755	1RB#0	0.15~30	-52.81	PASS
Band17	5MHz	QPSK	23755	1RB#0	30~1000	-62.72	PASS
Band17	5MHz	QPSK	23755	1RB#0	1000~3000	-43.65	PASS
Band17	5MHz	QPSK	23755	1RB#0	3000~10000	-36.99	PASS
Band17	5MHz	16QAM	23755	1RB#0	0.009~0.15	-60.37	PASS
Band17	5MHz	16QAM	23755	1RB#0	0.15~30	-54.12	PASS
Band17	5MHz	16QAM	23755	1RB#0	30~1000	-62.79	PASS
Band17	5MHz	16QAM	23755	1RB#0	1000~3000	-43.95	PASS
Band17	5MHz	16QAM	23755	1RB#0	3000~10000	-43.26	PASS
Band17	5MHz	QPSK	23790	1RB#0	0.009~0.15	-57.33	PASS
Band17	5MHz	QPSK	23790	1RB#0	0.15~30	-52.69	PASS
Band17	5MHz	QPSK	23790	1RB#0	30~1000	-63.05	PASS
Band17	5MHz	QPSK	23790	1RB#0	1000~3000	-42.72	PASS
Band17	5MHz	QPSK	23790	1RB#0	3000~10000	-37.01	PASS
Band17	5MHz	16QAM	23790	1RB#0	0.009~0.15	-59.34	PASS
Band17	5MHz	16QAM	23790	1RB#0	0.15~30	-51.83	PASS
Band17	5MHz	16QAM	23790	1RB#0	30~1000	-62.56	PASS
Band17	5MHz	16QAM	23790	1RB#0	1000~3000	-43.83	PASS
Band17	5MHz	16QAM	23790	1RB#0	3000~10000	-38.13	PASS
Band17	5MHz	QPSK	23825	1RB#0	0.009~0.15	-57.77	PASS
Band17	5MHz	QPSK	23825	1RB#0	0.15~30	-53.93	PASS
Band17	5MHz	QPSK	23825	1RB#0	30~1000	-62.68	PASS
Band17	5MHz	QPSK	23825	1RB#0	1000~3000	-41.32	PASS
Band17	5MHz	QPSK	23825	1RB#0	3000~10000	-39.64	PASS
Band17	5MHz	16QAM	23825	1RB#0	0.009~0.15	-58.03	PASS
Band17	5MHz	16QAM	23825	1RB#0	0.15~30	-53.91	PASS
Band17	5MHz	16QAM	23825	1RB#0	30~1000	-62.84	PASS
Band17	5MHz	16QAM	23825	1RB#0	1000~3000	-40.98	PASS
Band17	5MHz	16QAM	23825	1RB#0	3000~10000	-40.36	PASS
Band17	10MHz	QPSK	23780	1RB#0	0.009~0.15	-58.94	PASS
Band17	10MHz	QPSK	23780	1RB#0	0.15~30	-54.22	PASS
Band17	10MHz	QPSK	23780	1RB#0	30~1000	-62.90	PASS
Band17	10MHz	QPSK	23780	1RB#0	1000~3000	-42.10	PASS
Band17	10MHz	QPSK	23780	1RB#0	3000~10000	-41.04	PASS



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Band17	10MHz	16QAM	23780	1RB#0	0.009~0.15	-60.02	PASS
Band17	10MHz	16QAM	23780	1RB#0	0.15~30	-53.31	PASS
Band17	10MHz	16QAM	23780	1RB#0	30~1000	-62.66	PASS
Band17	10MHz	16QAM	23780	1RB#0	1000~3000	-43.14	PASS
Band17	10MHz	16QAM	23780	1RB#0	3000~10000	-39.51	PASS
Band17	10MHz	QPSK	23790	1RB#0	0.009~0.15	-55.35	PASS
Band17	10MHz	QPSK	23790	1RB#0	0.15~30	-52.47	PASS
Band17	10MHz	QPSK	23790	1RB#0	30~1000	-62.76	PASS
Band17	10MHz	QPSK	23790	1RB#0	1000~3000	-44.50	PASS
Band17	10MHz	QPSK	23790	1RB#0	3000~10000	-38.07	PASS
Band17	10MHz	16QAM	23790	1RB#0	0.009~0.15	-59.87	PASS
Band17	10MHz	16QAM	23790	1RB#0	0.15~30	-54.10	PASS
Band17	10MHz	16QAM	23790	1RB#0	30~1000	-62.75	PASS
Band17	10MHz	16QAM	23790	1RB#0	1000~3000	-44.16	PASS
Band17	10MHz	16QAM	23790	1RB#0	3000~10000	-41.21	PASS
Band17	10MHz	QPSK	23800	1RB#0	0.009~0.15	-57.64	PASS
Band17	10MHz	QPSK	23800	1RB#0	0.15~30	-52.83	PASS
Band17	10MHz	QPSK	23800	1RB#0	30~1000	-62.72	PASS
Band17	10MHz	QPSK	23800	1RB#0	1000~3000	-45.51	PASS
Band17	10MHz	QPSK	23800	1RB#0	3000~10000	-38.72	PASS
Band17	10MHz	16QAM	23800	1RB#0	0.009~0.15	-59.93	PASS
Band17	10MHz	16QAM	23800	1RB#0	0.15~30	-55.06	PASS
Band17	10MHz	16QAM	23800	1RB#0	30~1000	-62.71	PASS
Band17	10MHz	16QAM	23800	1RB#0	1000~3000	-47.23	PASS
Band17	10MHz	16QAM	23800	1RB#0	3000~10000	-39.69	PASS





Test Graphs

