



Appendix H: Test Data for E-UTRA Band 17

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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Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China
Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com
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H.1 Conducted Output Power Data

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band17	5MHz	QPSK	23755	1RB#0	26.39	PASS
Band17	5MHz	16QAM	23755	1RB#0	24.94	PASS
Band17	5MHz	QPSK	23755	1RB#12	26.32	PASS
Band17	5MHz	16QAM	23755	1RB#12	24.81	PASS
Band17	5MHz	QPSK	23755	1RB#24	26.22	PASS
Band17	5MHz	16QAM	23755	1RB#24	24.91	PASS
Band17	5MHz	QPSK	23755	12RB#0	25.38	PASS
Band17	5MHz	16QAM	23755	12RB#0	24.77	PASS
Band17	5MHz	QPSK	23755	12RB#6	25.34	PASS
Band17	5MHz	16QAM	23755	12RB#6	24.69	PASS
Band17	5MHz	QPSK	23755	12RB#13	25.39	PASS
Band17	5MHz	16QAM	23755	12RB#13	24.31	PASS
Band17	5MHz	QPSK	23755	25RB#0	25.28	PASS
Band17	5MHz	16QAM	23755	25RB#0	24.54	PASS
Band17	5MHz	QPSK	23790	1RB#0	26.35	PASS
Band17	5MHz	16QAM	23790	1RB#0	24.68	PASS
Band17	5MHz	QPSK	23790	1RB#12	26.30	PASS
Band17	5MHz	16QAM	23790	1RB#12	24.65	PASS
Band17	5MHz	QPSK	23790	1RB#24	26.36	PASS
Band17	5MHz	16QAM	23790	1RB#24	24.83	PASS
Band17	5MHz	QPSK	23790	12RB#0	25.30	PASS
Band17	5MHz	16QAM	23790	12RB#0	24.24	PASS
Band17	5MHz	QPSK	23790	12RB#6	25.29	PASS
Band17	5MHz	16QAM	23790	12RB#6	24.22	PASS
Band17	5MHz	QPSK	23790	12RB#13	25.64	PASS
Band17	5MHz	16QAM	23790	12RB#13	24.71	PASS
Band17	5MHz	QPSK	23790	25RB#0	25.19	PASS
Band17	5MHz	16QAM	23790	25RB#0	24.83	PASS
Band17	5MHz	QPSK	23825	1RB#0	26.37	PASS
Band17	5MHz	16QAM	23825	1RB#0	24.76	PASS
Band17	5MHz	QPSK	23825	1RB#12	26.52	PASS
Band17	5MHz	16QAM	23825	1RB#12	24.73	PASS
Band17	5MHz	QPSK	23825	1RB#24	26.44	PASS
Band17	5MHz	16QAM	23825	1RB#24	24.59	PASS



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Band17	5MHz	QPSK	23825	12RB#0	25.42	PASS
Band17	5MHz	16QAM	23825	12RB#0	24.74	PASS
Band17	5MHz	QPSK	23825	12RB#6	25.39	PASS
Band17	5MHz	16QAM	23825	12RB#6	24.74	PASS
Band17	5MHz	QPSK	23825	12RB#13	25.43	PASS
Band17	5MHz	16QAM	23825	12RB#13	24.24	PASS
Band17	5MHz	QPSK	23825	25RB#0	25.38	PASS
Band17	5MHz	16QAM	23825	25RB#0	24.29	PASS
Band17	10MHz	QPSK	23780	1RB#0	26.18	PASS
Band17	10MHz	16QAM	23780	1RB#0	24.89	PASS
Band17	10MHz	QPSK	23780	1RB#24	26.20	PASS
Band17	10MHz	16QAM	23780	1RB#24	24.78	PASS
Band17	10MHz	QPSK	23780	1RB#49	26.33	PASS
Band17	10MHz	16QAM	23780	1RB#49	24.91	PASS
Band17	10MHz	QPSK	23780	25RB#0	25.34	PASS
Band17	10MHz	16QAM	23780	25RB#0	24.69	PASS
Band17	10MHz	QPSK	23780	25RB#12	25.32	PASS
Band17	10MHz	16QAM	23780	25RB#12	24.68	PASS
Band17	10MHz	QPSK	23780	25RB#25	25.39	PASS
Band17	10MHz	16QAM	23780	25RB#25	24.76	PASS
Band17	10MHz	QPSK	23780	50RB#0	25.29	PASS
Band17	10MHz	16QAM	23780	50RB#0	24.40	PASS
Band17	10MHz	QPSK	23790	1RB#0	26.45	PASS
Band17	10MHz	16QAM	23790	1RB#0	25.00	PASS
Band17	10MHz	QPSK	23790	1RB#24	26.44	PASS
Band17	10MHz	16QAM	23790	1RB#24	24.98	PASS
Band17	10MHz	QPSK	23790	1RB#49	26.60	PASS
Band17	10MHz	16QAM	23790	1RB#49	25.00	PASS
Band17	10MHz	QPSK	23790	25RB#0	25.30	PASS
Band17	10MHz	16QAM	23790	25RB#0	24.59	PASS
Band17	10MHz	QPSK	23790	25RB#12	25.29	PASS
Band17	10MHz	16QAM	23790	25RB#12	24.58	PASS
Band17	10MHz	QPSK	23790	25RB#25	25.47	PASS
Band17	10MHz	16QAM	23790	25RB#25	24.88	PASS
Band17	10MHz	QPSK	23790	50RB#0	25.27	PASS
Band17	10MHz	16QAM	23790	50RB#0	24.87	PASS
Band17	10MHz	QPSK	23800	1RB#0	26.32	PASS
Band17	10MHz	16QAM	23800	1RB#0	25.77	PASS
Band17	10MHz	QPSK	23800	1RB#24	26.10	PASS
Band17	10MHz	16QAM	23800	1RB#24	25.71	PASS



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Band17	10MHz	QPSK	23800	1RB#49	26.26	PASS
Band17	10MHz	16QAM	23800	1RB#49	25.79	PASS
Band17	10MHz	QPSK	23800	25RB#0	25.33	PASS
Band17	10MHz	16QAM	23800	25RB#0	24.31	PASS
Band17	10MHz	QPSK	23800	25RB#12	25.31	PASS
Band17	10MHz	16QAM	23800	25RB#12	24.31	PASS
Band17	10MHz	QPSK	23800	25RB#25	25.38	PASS
Band17	10MHz	16QAM	23800	25RB#25	24.44	PASS
Band17	10MHz	QPSK	23800	50RB#0	25.24	PASS
Band17	10MHz	16QAM	23800	50RB#0	24.82	PASS





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

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band17	5MHz	QPSK	23755	1RB#0	4.70	13	PASS
Band17	5MHz	16QAM	23755	1RB#0	5.83	13	PASS
Band17	5MHz	QPSK	23755	25RB#0	5.73	13	PASS
Band17	5MHz	16QAM	23755	25RB#0	6.35	13	PASS
Band17	5MHz	QPSK	23790	1RB#0	4.98	13	PASS
Band17	5MHz	16QAM	23790	1RB#0	6.01	13	PASS
Band17	5MHz	QPSK	23790	25RB#0	5.60	13	PASS
Band17	5MHz	16QAM	23790	25RB#0	6.15	13	PASS
Band17	5MHz	QPSK	23825	1RB#0	4.42	13	PASS
Band17	5MHz	16QAM	23825	1RB#0	5.19	13	PASS
Band17	5MHz	QPSK	23825	25RB#0	5.42	13	PASS
Band17	5MHz	16QAM	23825	25RB#0	6.17	13	PASS
Band17	10MHz	QPSK	23780	1RB#0	4.81	13	PASS
Band17	10MHz	16QAM	23780	1RB#0	5.66	13	PASS
Band17	10MHz	QPSK	23780	50RB#0	5.74	13	PASS
Band17	10MHz	16QAM	23780	50RB#0	6.47	13	PASS
Band17	10MHz	QPSK	23790	1RB#0	4.87	13	PASS
Band17	10MHz	16QAM	23790	1RB#0	6.05	13	PASS
Band17	10MHz	QPSK	23790	50RB#0	5.61	13	PASS
Band17	10MHz	16QAM	23790	50RB#0	6.32	13	PASS
Band17	10MHz	QPSK	23800	1RB#0	5.07	13	PASS
Band17	10MHz	16QAM	23800	1RB#0	5.72	13	PASS
Band17	10MHz	QPSK	23800	50RB#0	5.57	13	PASS
Band17	10MHz	16QAM	23800	50RB#0	6.29	13	PASS



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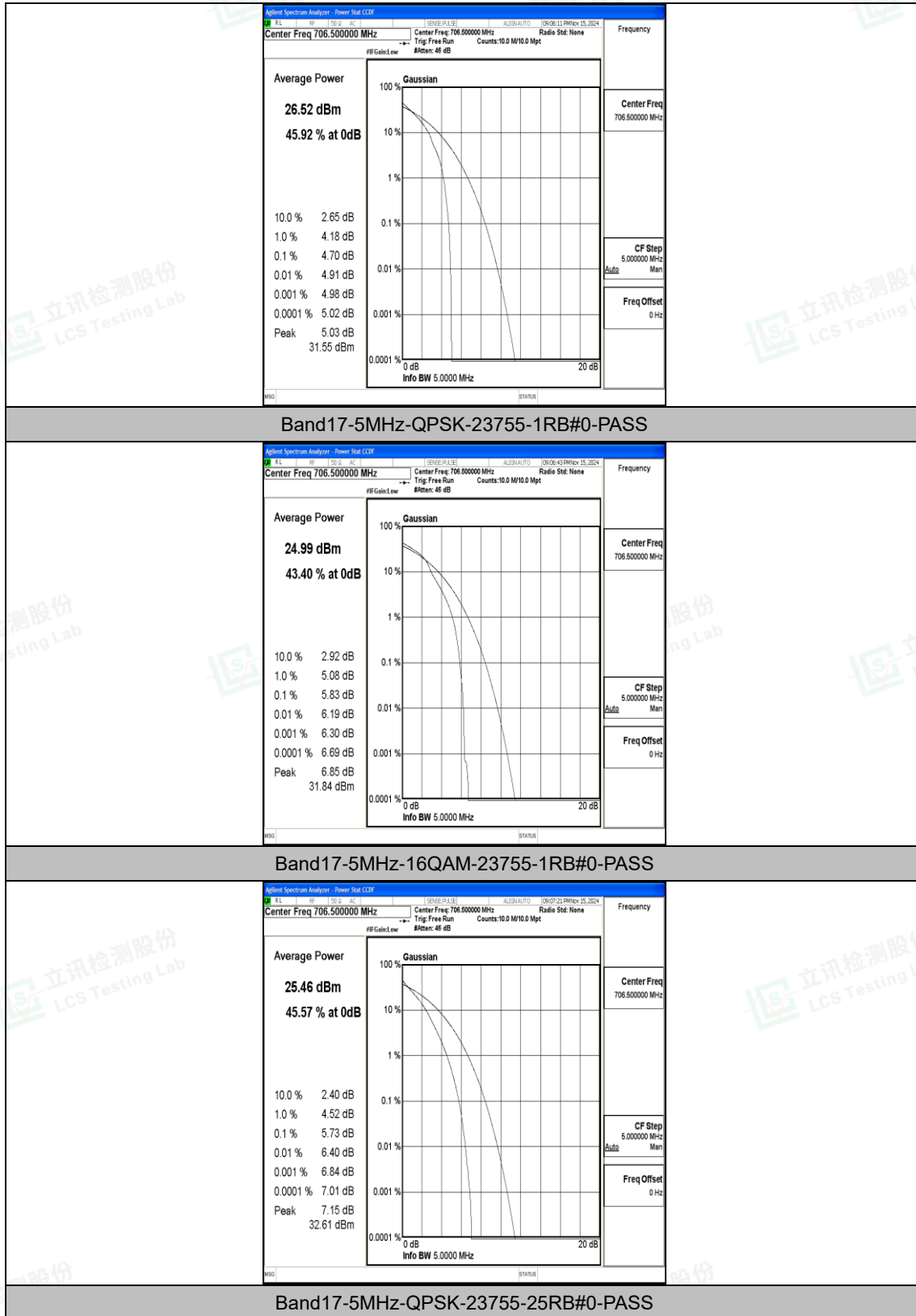
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Test Graphs



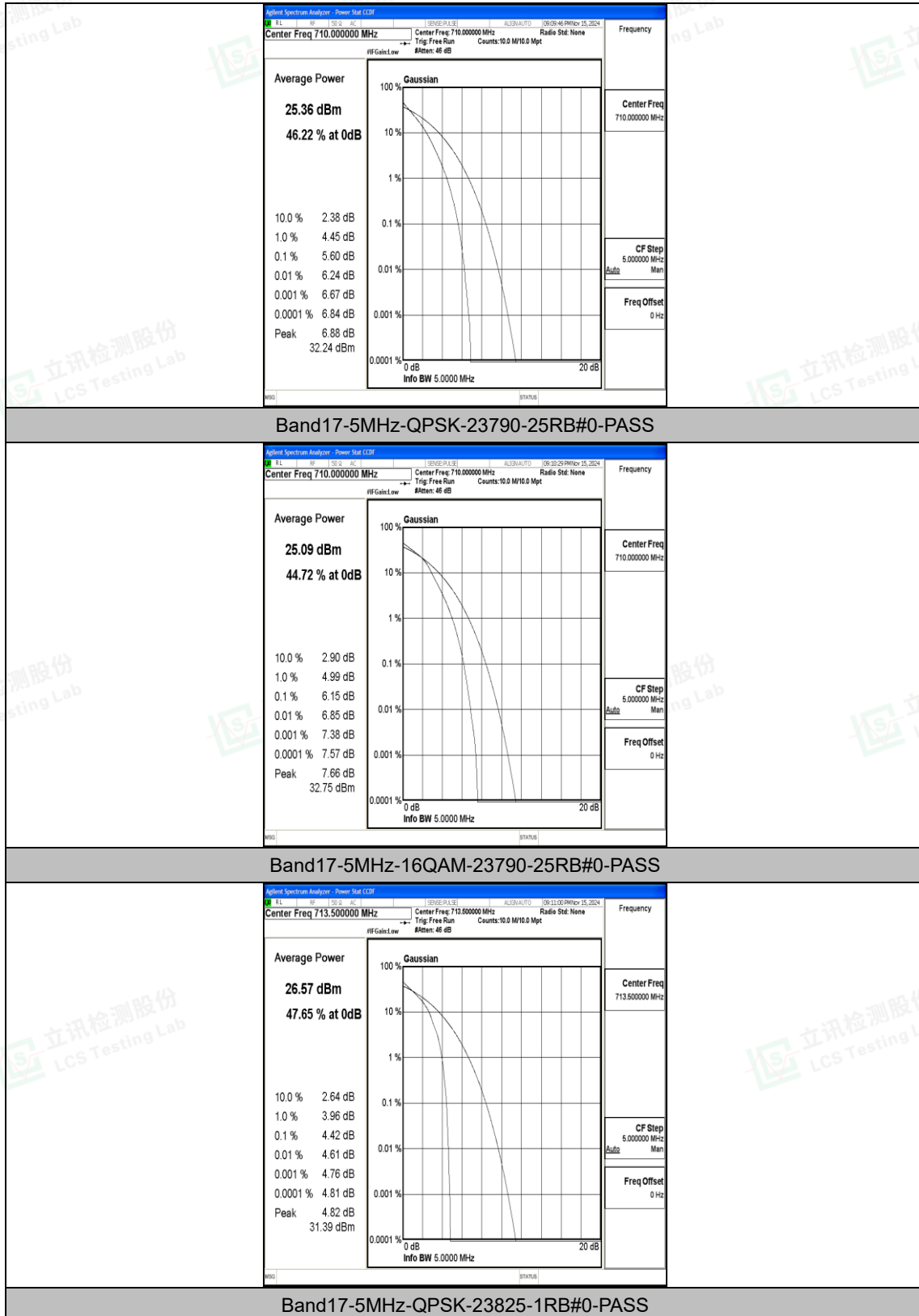
Shenzhen LCS Compliance Testing Laboratory Ltd.

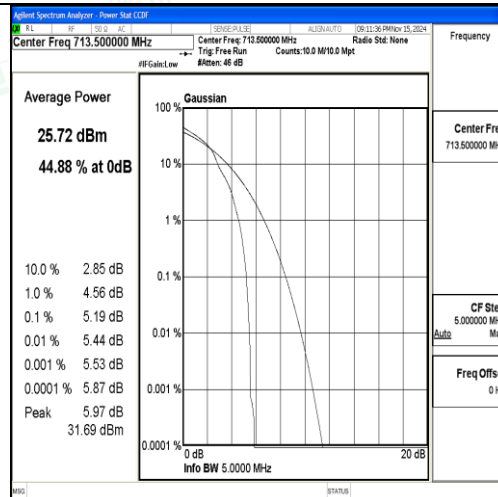
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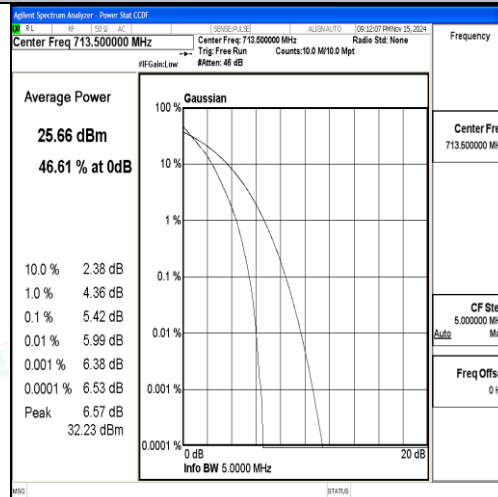
Scan code to check authenticity



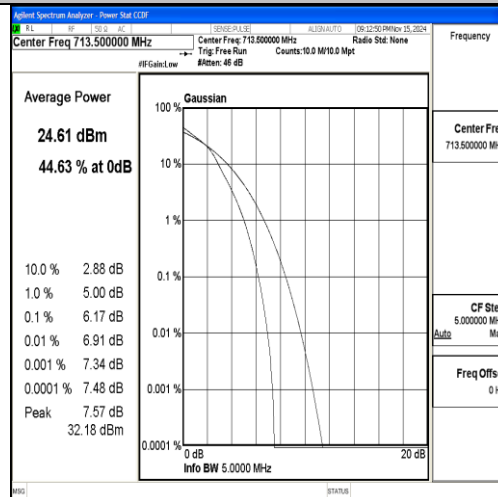




Band17-5MHz-16QAM-23825-1RB#0-PASS



Band17-5MHz-QPSK-23825-25RB#0-PASS



Band17-5MHz-16QAM-23825-25RB#0-PASS



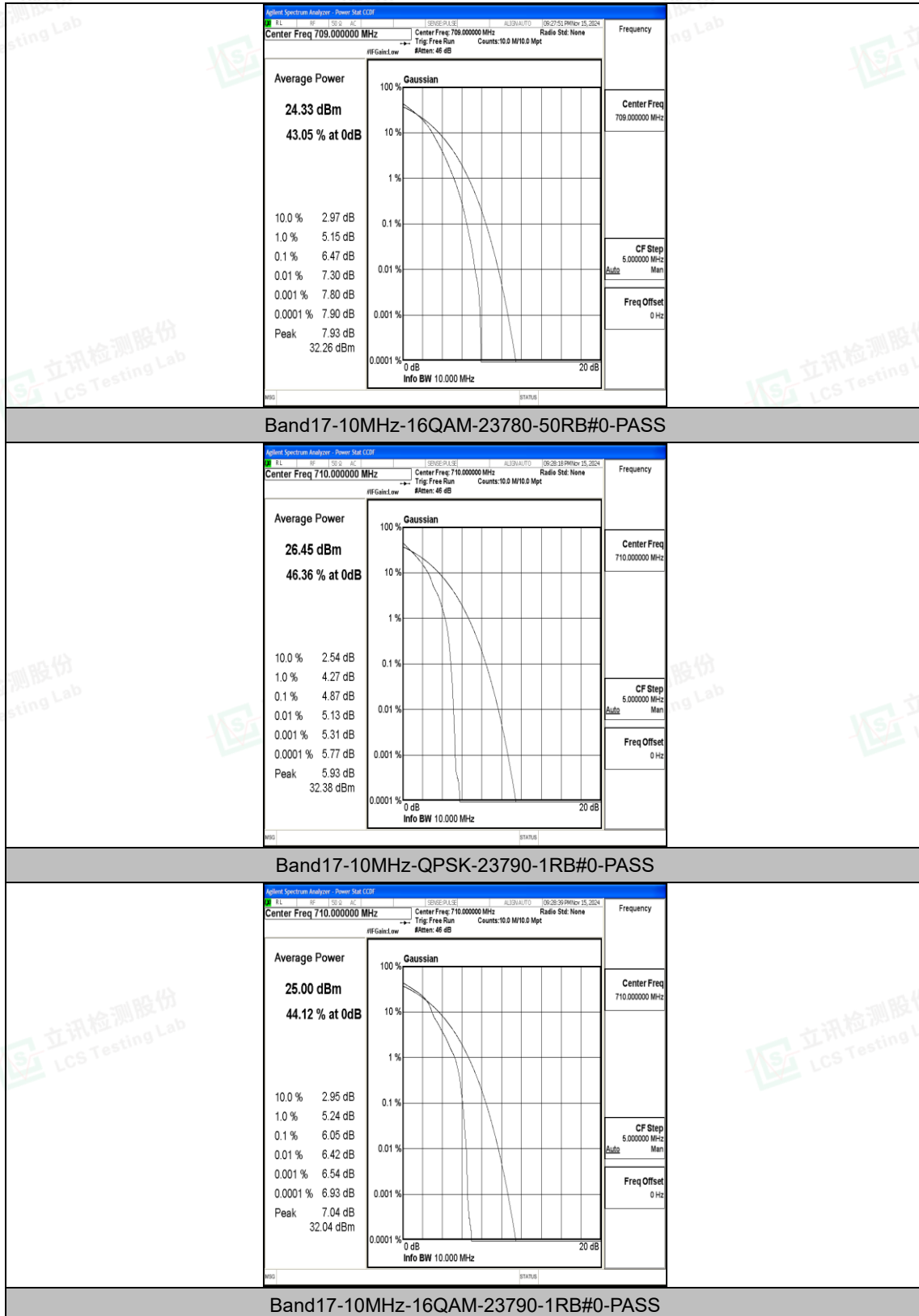
Shenzhen LCS Compliance Testing Laboratory Ltd.

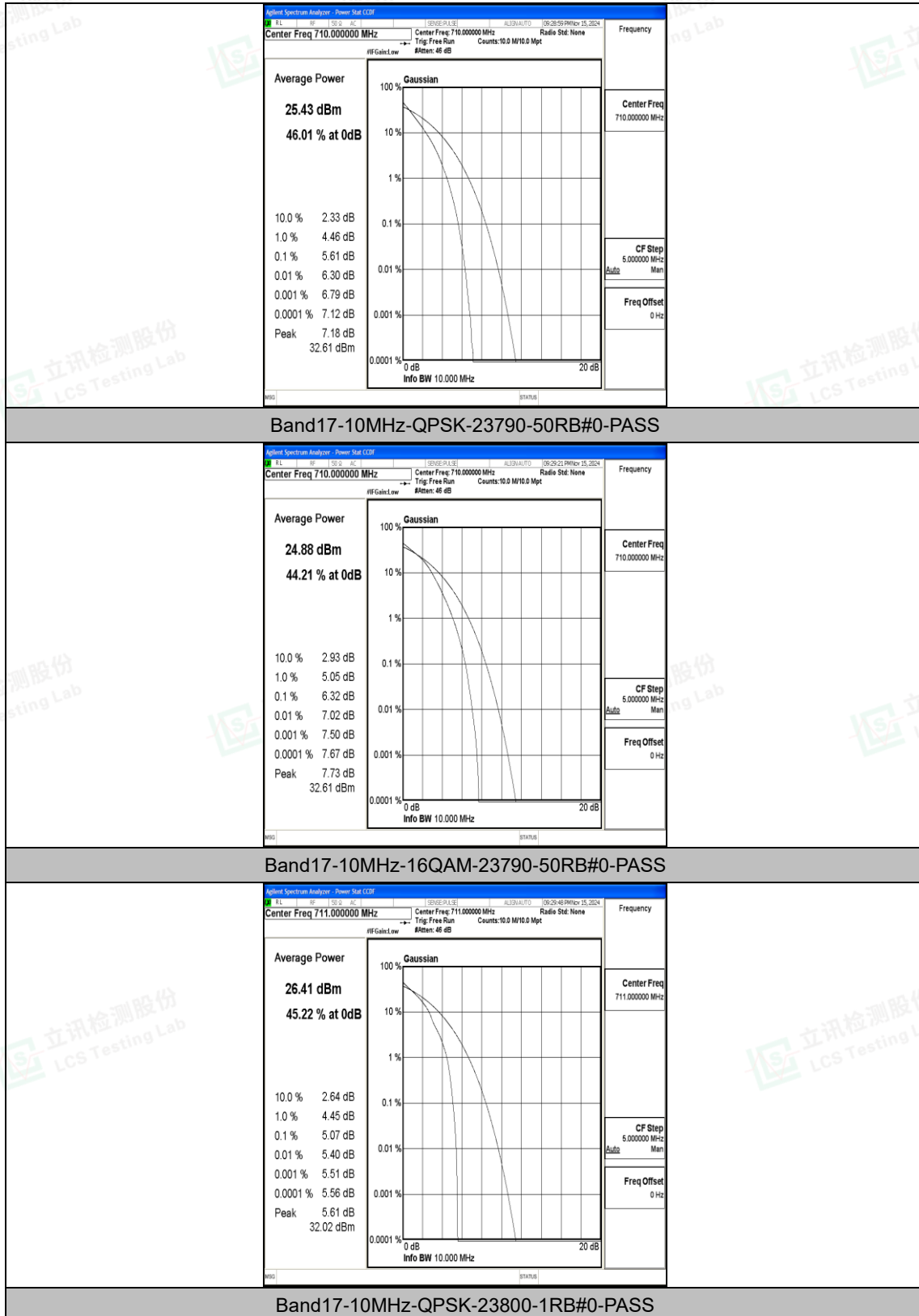
Shenzhen EEC Compliance Testing Laboratory Ltd.
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518000, China

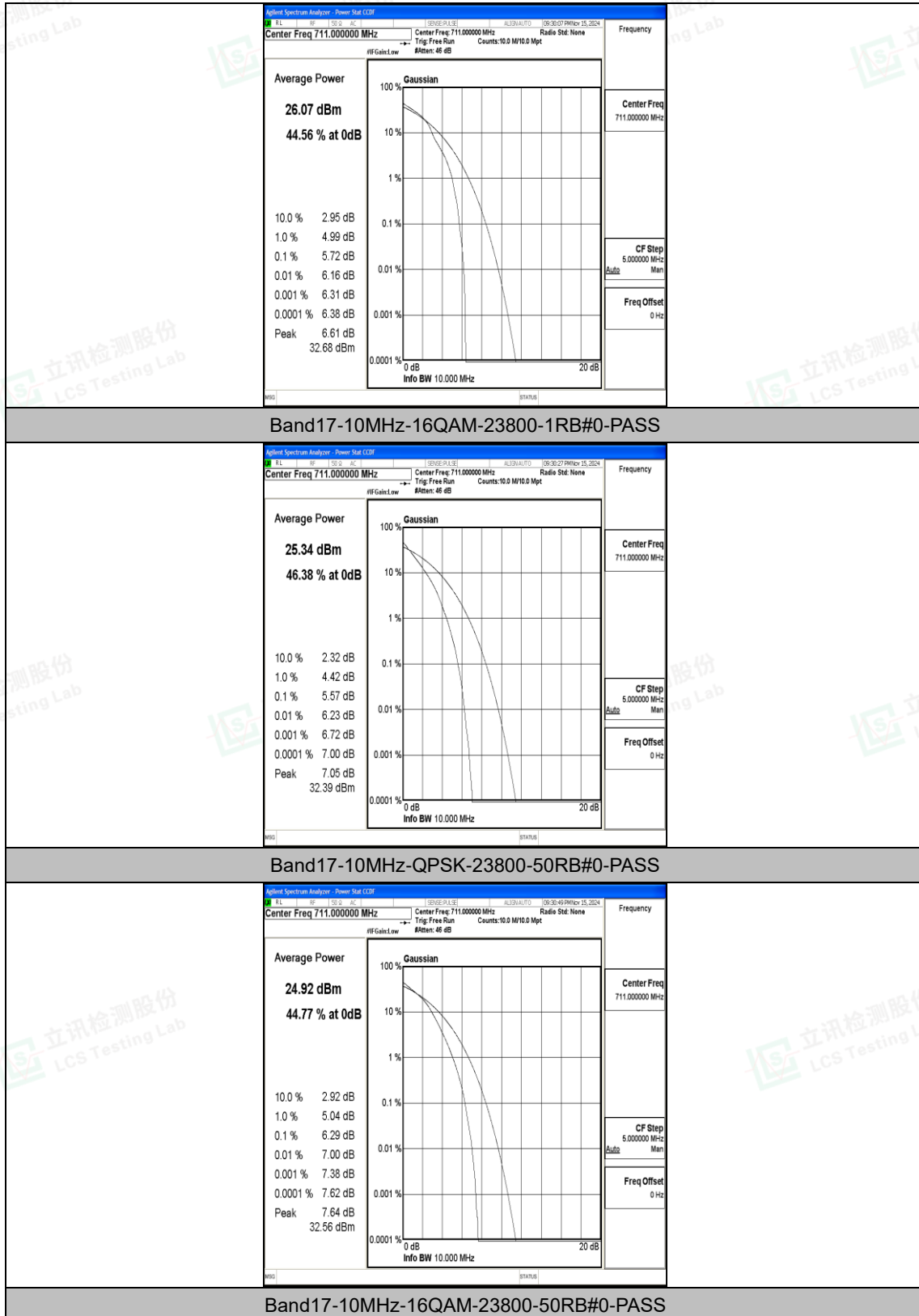
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H.3 26dB Bandwidth and Occupied Bandwidth

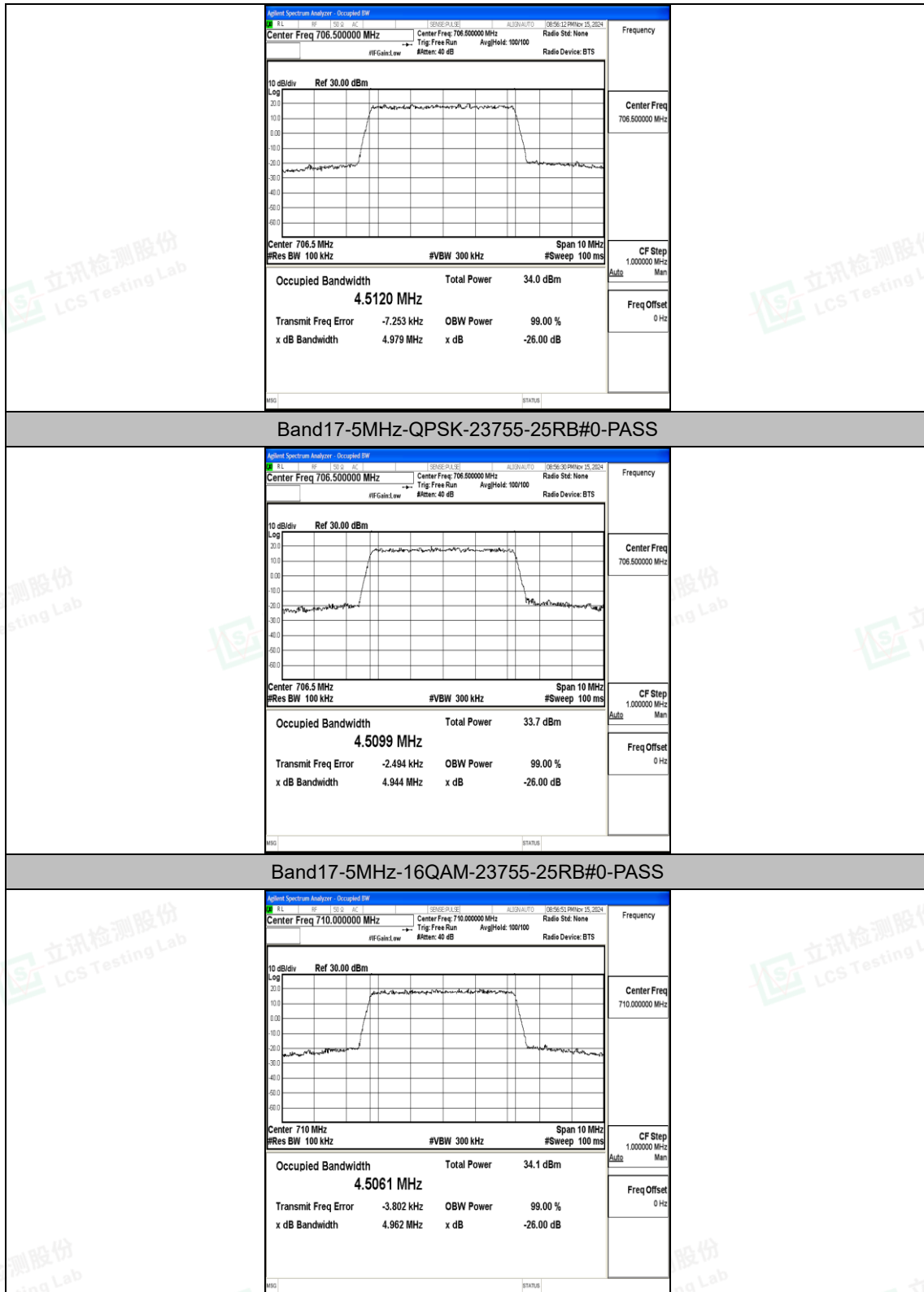
Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band17	5MHz	QPSK	23755	25RB#0	4.5120	4.979	PASS
Band17	5MHz	16QAM	23755	25RB#0	4.5099	4.944	PASS
Band17	5MHz	QPSK	23790	25RB#0	4.5061	4.962	PASS
Band17	5MHz	16QAM	23790	25RB#0	4.5044	4.954	PASS
Band17	5MHz	QPSK	23825	25RB#0	4.4949	4.960	PASS
Band17	5MHz	16QAM	23825	25RB#0	4.5209	4.972	PASS
Band17	10MHz	QPSK	23780	50RB#0	8.9920	9.834	PASS
Band17	10MHz	16QAM	23780	50RB#0	8.9900	9.859	PASS
Band17	10MHz	QPSK	23790	50RB#0	9.0029	9.853	PASS
Band17	10MHz	16QAM	23790	50RB#0	8.9788	9.938	PASS
Band17	10MHz	QPSK	23800	50RB#0	8.9559	9.818	PASS
Band17	10MHz	16QAM	23800	50RB#0	8.9796	9.832	PASS



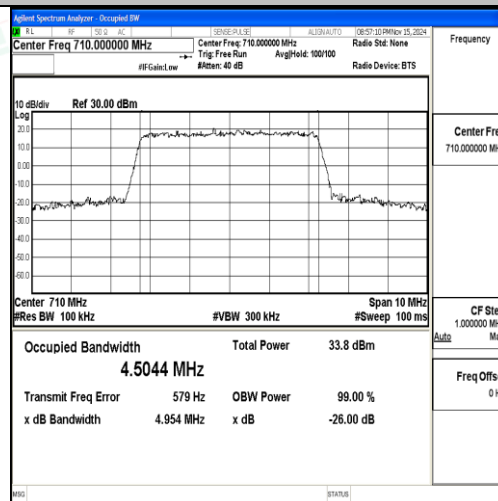


Test Graphs

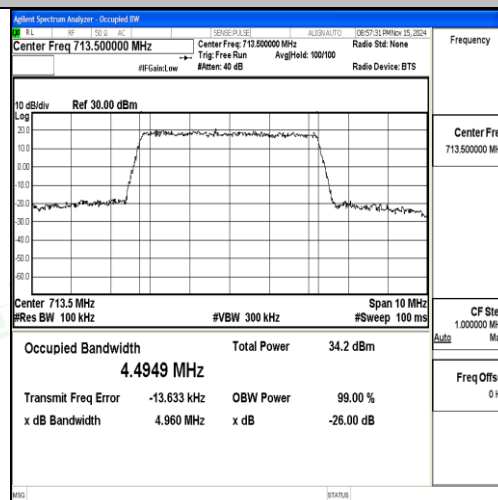




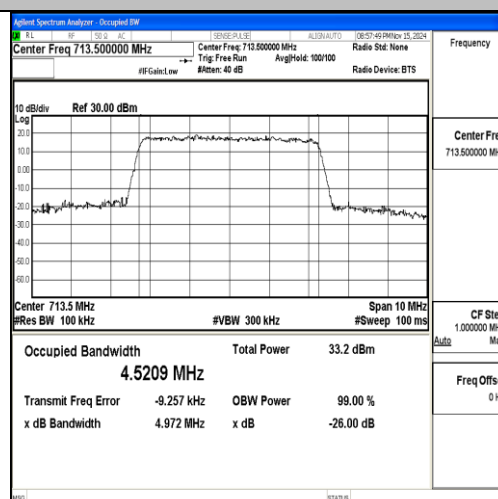
Band17-5MHz-QPSK-23790-25RB#0-PASS



Band17-5MHz-16QAM-23790-25RB#0-PASS



Band17-5MHz-QPSK-23825-25RB#0-PASS



Band17-5MHz-16QAM-23825-25RB#0-PASS



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Spectrum Analyzer - Occupied BW

100.000000 MHz 100.000000 MHz 100.000000 MHz

Center Freq 709.000000 MHz

Trig: Free Run Avg/Hold: 3020 Radio Device: BTS

#Gain Low #Bttn: 40 dB

10 dB/div Ref 30.00 dBm

Log

Center 709 MHz

Res BW 200 kHz #VBW 620 kHz Span 20 MHz

#Sweep 100 ms

Center Freq 709.000000 MHz

CF Sts 2.000000 MHz

Band17-10MHz-QPSK-23780-50RB#0-PASS

The screenshot displays a Spectrum Analyzer interface with the following details:

- Top Bar:** Includes tabs for 'Spectrum Analyzer - Occupied BW', 'Solve (F4)', 'Align(F6)', and 'SR-17-Spectrum (S, 2024)'. Below these are fields for 'Center Freq 709.000000 MHz', 'Trig: Free Run', 'Avg/Hold: 30/20', 'Radio Std: None', and 'Radio Device: BTS'.
- Plot Area:** A graph showing signal power in dBm (y-axis, -60 to 10) versus frequency. A prominent signal is visible at 8.990 MHz. The plot is titled 'Ref 30.00 dBm'.
- Bottom Section:** Contains summary statistics:
 - Center 709 MHz
 - Res BW 200 kHz
 - #VBW 620 kHz
 - Span 20 MHz
 - #Sweep 100 ms
 - Occupied Bandwidth
 - Total Power
 - 33.2 dBm
- Frequency Readout:** A large display shows '8.990 MHz'.
- Additional Readouts:**
 - Transmit Freq Error: 3.861 kHz
 - OBW Power: 99.00 %
 - x dB Bandwidth: 9.859 MHz
 - x dB: -26.00 dB
- Right Panel:** Includes a 'Frequency' label, a 'Center Freq 709.000000 MHz' readout, and a 'CF Str 2.000000 MHz' readout.

Band17-10MHz-16QAM-23780-50RB#0-PASS

Agilent Spectrum Analyzer - Occupied BW

Center Freq 710.000000 MHz

Span 20.000000 MHz

Res BW 200 kHz

VBW 620 kHz

Sweep 100 ms

Occupied Bandwidth: 9.0029 MHz

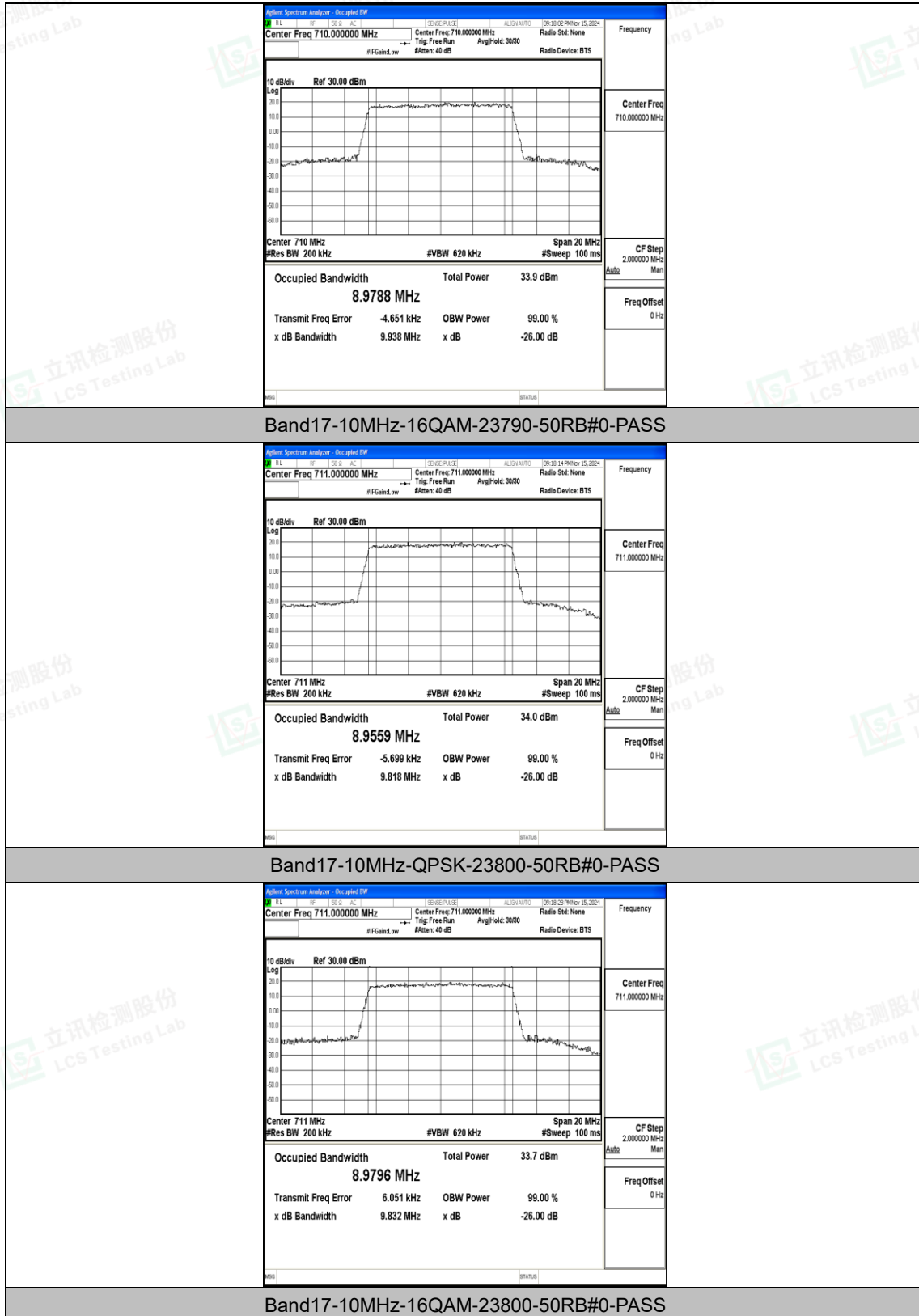
Transmit Freq Error: 2.807 kHz

x dB Bandwidth: 9.853 MHz

Total Power: 34.1 dBm

Power Error: -26.00 dB

Band17-10MHz-QPSK-23790-50RB#0-PASS



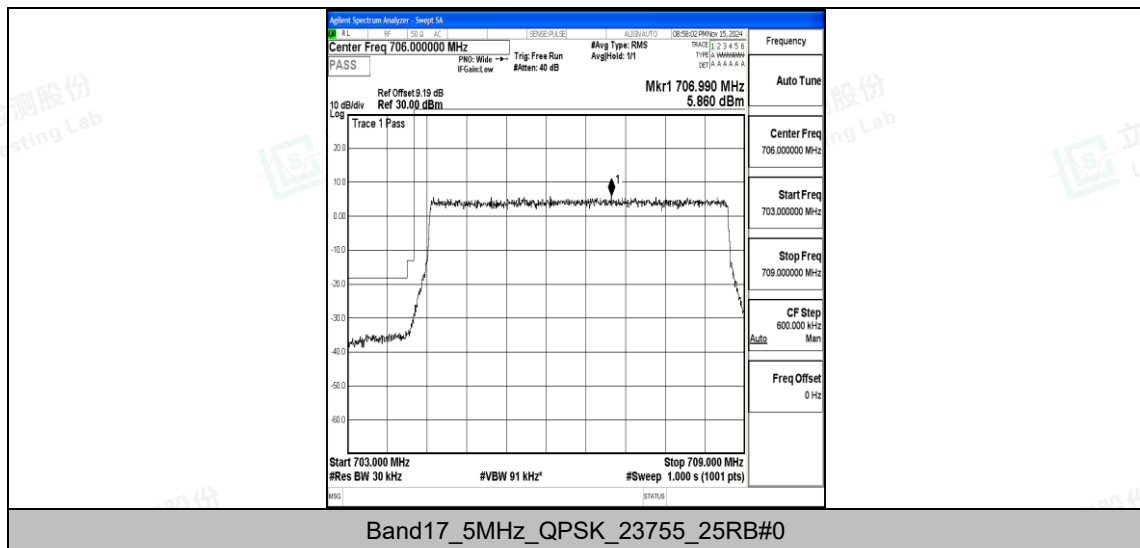


H.4 Band Edge

Test Result

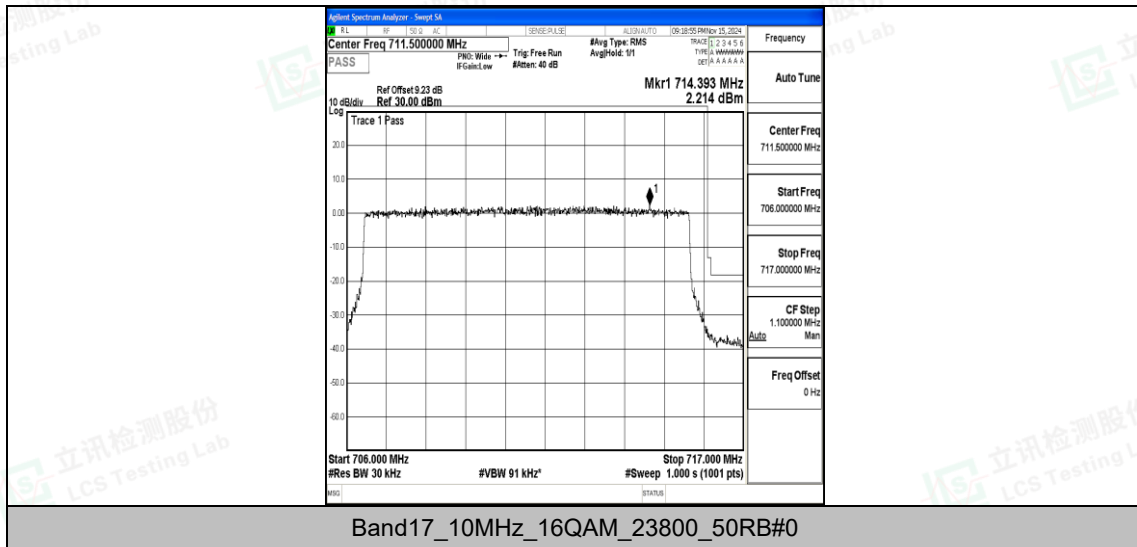
Band	Bandwidth	Modulation	Channel	RB Configuration	Peak Frequency	Result(dBm)	Verdict
Band17	5MHz	QPSK	23755	25RB#0	703.89	-33.99	PASS
Band17	5MHz	16QAM	23755	25RB#0	703.83	-33.74	PASS
Band17	5MHz	QPSK	23825	25RB#0	716.15	-34.06	PASS
Band17	5MHz	16QAM	23825	25RB#0	716.41	-34.43	PASS
Band17	10MHz	QPSK	23780	50RB#0	703.25	-36.73	PASS
Band17	10MHz	16QAM	23780	50RB#0	703.31	-36.52	PASS
Band17	10MHz	QPSK	23800	50RB#0	716.16	-36.58	PASS
Band17	10MHz	16QAM	23800	50RB#0	716.11	-35.64	PASS

Test Graphs











H.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	-55.19	PASS
Band17	5MHz	QPSK	23755	1RB#0	0.15~30	-51.94	PASS
Band17	5MHz	QPSK	23755	1RB#0	30~1000	-60.03	PASS
Band17	5MHz	QPSK	23755	1RB#0	1000~3000	-38.86	PASS
Band17	5MHz	QPSK	23755	1RB#0	3000~10000	-42.13	PASS
Band17	5MHz	16QAM	23755	1RB#0	0.009~0.15	-56.80	PASS
Band17	5MHz	16QAM	23755	1RB#0	0.15~30	-50.54	PASS
Band17	5MHz	16QAM	23755	1RB#0	30~1000	-60.05	PASS
Band17	5MHz	16QAM	23755	1RB#0	1000~3000	-41.73	PASS
Band17	5MHz	16QAM	23755	1RB#0	3000~10000	-42.00	PASS
Band17	5MHz	QPSK	23790	1RB#0	0.009~0.15	-58.89	PASS
Band17	5MHz	QPSK	23790	1RB#0	0.15~30	-51.49	PASS
Band17	5MHz	QPSK	23790	1RB#0	30~1000	-58.83	PASS
Band17	5MHz	QPSK	23790	1RB#0	1000~3000	-36.30	PASS
Band17	5MHz	QPSK	23790	1RB#0	3000~10000	-42.02	PASS
Band17	5MHz	16QAM	23790	1RB#0	0.009~0.15	-57.31	PASS
Band17	5MHz	16QAM	23790	1RB#0	0.15~30	-49.91	PASS
Band17	5MHz	16QAM	23790	1RB#0	30~1000	-59.39	PASS
Band17	5MHz	16QAM	23790	1RB#0	1000~3000	-36.99	PASS
Band17	5MHz	16QAM	23790	1RB#0	3000~10000	-42.15	PASS
Band17	5MHz	QPSK	23825	1RB#0	0.009~0.15	-55.75	PASS
Band17	5MHz	QPSK	23825	1RB#0	0.15~30	-50.91	PASS
Band17	5MHz	QPSK	23825	1RB#0	30~1000	-59.27	PASS
Band17	5MHz	QPSK	23825	1RB#0	1000~3000	-44.96	PASS
Band17	5MHz	QPSK	23825	1RB#0	3000~10000	-42.33	PASS
Band17	5MHz	16QAM	23825	1RB#0	0.009~0.15	-51.98	PASS
Band17	5MHz	16QAM	23825	1RB#0	0.15~30	-50.25	PASS
Band17	5MHz	16QAM	23825	1RB#0	30~1000	-58.39	PASS
Band17	5MHz	16QAM	23825	1RB#0	1000~3000	-44.48	PASS
Band17	5MHz	16QAM	23825	1RB#0	3000~10000	-41.89	PASS
Band17	10MHz	QPSK	23780	1RB#0	0.009~0.15	-57.22	PASS
Band17	10MHz	QPSK	23780	1RB#0	0.15~30	-51.35	PASS
Band17	10MHz	QPSK	23780	1RB#0	30~1000	-60.01	PASS



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Scan code to check authenticity



Band17	10MHz	QPSK	23780	1RB#0	1000~3000	-39.56	PASS
Band17	10MHz	QPSK	23780	1RB#0	3000~10000	-41.84	PASS
Band17	10MHz	16QAM	23780	1RB#0	0.009~0.15	-55.56	PASS
Band17	10MHz	16QAM	23780	1RB#0	0.15~30	-49.45	PASS
Band17	10MHz	16QAM	23780	1RB#0	30~1000	-59.26	PASS
Band17	10MHz	16QAM	23780	1RB#0	1000~3000	-38.75	PASS
Band17	10MHz	16QAM	23780	1RB#0	3000~10000	-42.33	PASS
Band17	10MHz	QPSK	23790	1RB#0	0.009~0.15	-55.56	PASS
Band17	10MHz	QPSK	23790	1RB#0	0.15~30	-50.41	PASS
Band17	10MHz	QPSK	23790	1RB#0	30~1000	-59.98	PASS
Band17	10MHz	QPSK	23790	1RB#0	1000~3000	-39.51	PASS
Band17	10MHz	QPSK	23790	1RB#0	3000~10000	-42.30	PASS
Band17	10MHz	16QAM	23790	1RB#0	0.009~0.15	-56.52	PASS
Band17	10MHz	16QAM	23790	1RB#0	0.15~30	-50.61	PASS
Band17	10MHz	16QAM	23790	1RB#0	30~1000	-60.12	PASS
Band17	10MHz	16QAM	23790	1RB#0	1000~3000	-38.44	PASS
Band17	10MHz	16QAM	23790	1RB#0	3000~10000	-42.21	PASS
Band17	10MHz	QPSK	23800	1RB#0	0.009~0.15	-53.48	PASS
Band17	10MHz	QPSK	23800	1RB#0	0.15~30	-49.28	PASS
Band17	10MHz	QPSK	23800	1RB#0	30~1000	-59.96	PASS
Band17	10MHz	QPSK	23800	1RB#0	1000~3000	-41.60	PASS
Band17	10MHz	QPSK	23800	1RB#0	3000~10000	-42.09	PASS
Band17	10MHz	16QAM	23800	1RB#0	0.009~0.15	-53.97	PASS
Band17	10MHz	16QAM	23800	1RB#0	0.15~30	-52.58	PASS
Band17	10MHz	16QAM	23800	1RB#0	30~1000	-60.14	PASS
Band17	10MHz	16QAM	23800	1RB#0	1000~3000	-43.45	PASS
Band17	10MHz	16QAM	23800	1RB#0	3000~10000	-42.43	PASS



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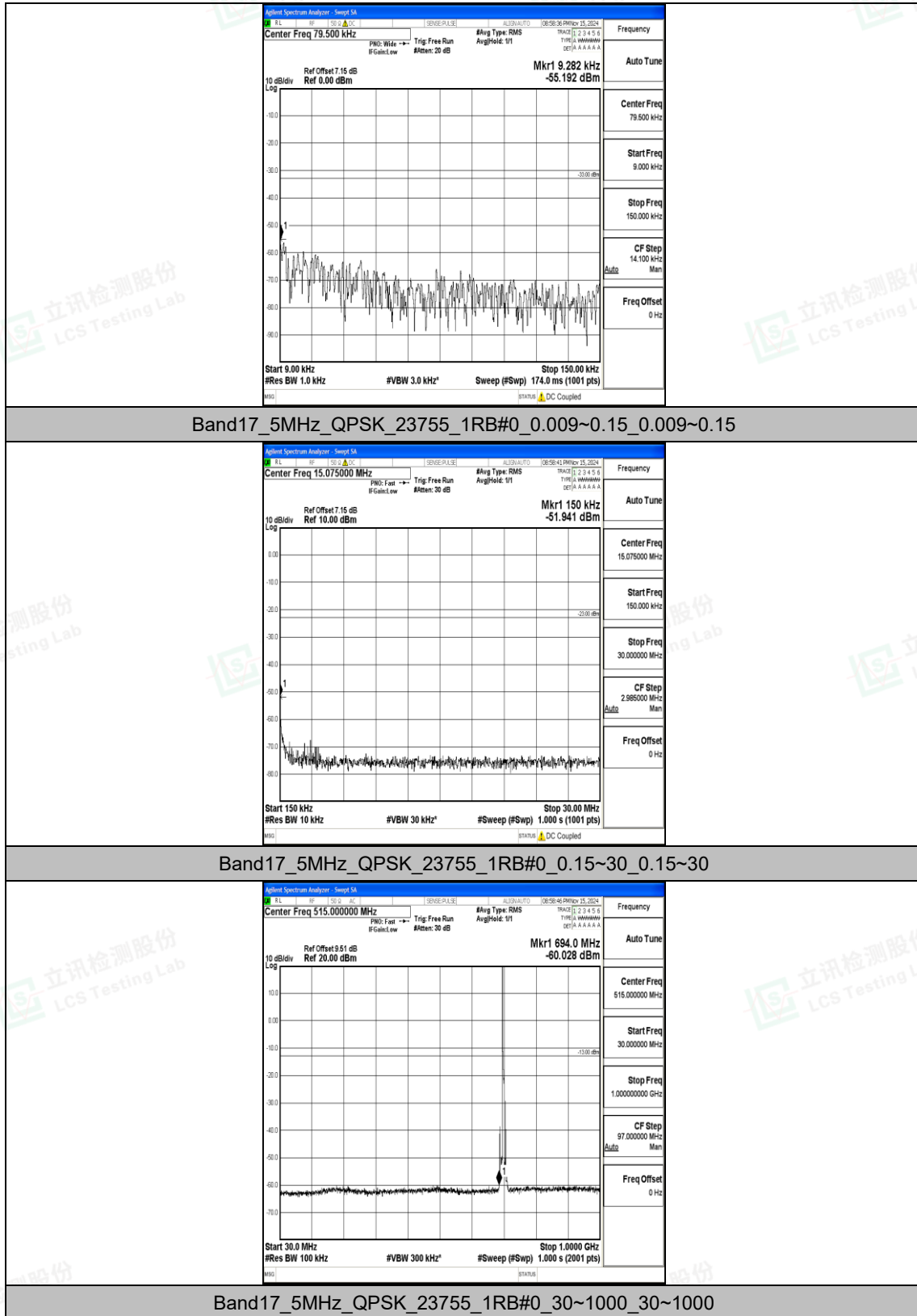
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

Scan code to check authenticity



Test Graphs

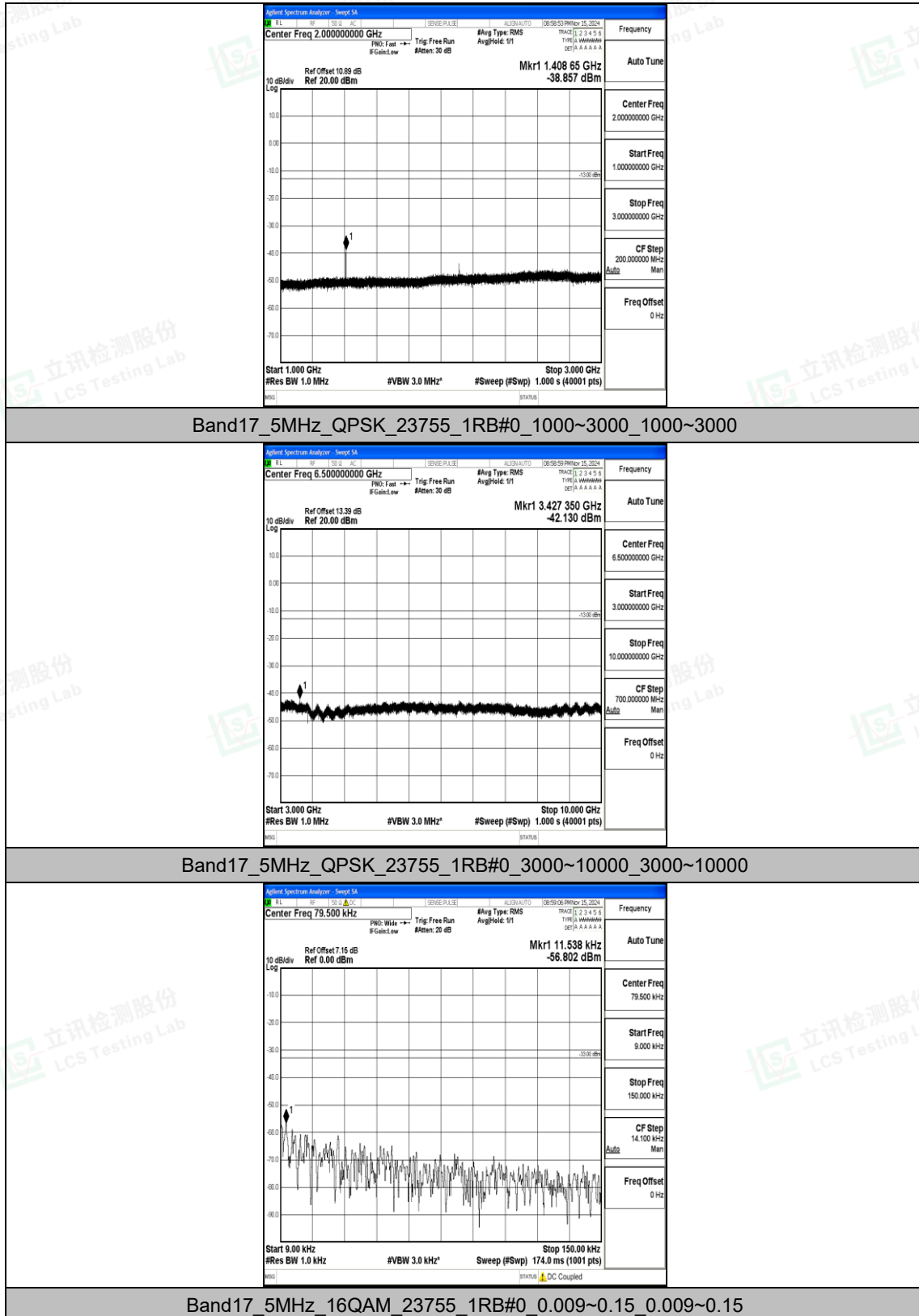


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