



Appendix N: Test Data for E-UTRA Band 17

Product Name: Smart Phone

Test Model: BraX3

Environmental Conditions

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





N.1 Conducted Output Power Data

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band17	5MHz	QPSK	23755	1RB#0	24.62	PASS
Band17	5MHz	16QAM	23755	1RB#0	23.47	PASS
Band17	5MHz	QPSK	23755	1RB#12	24.63	PASS
Band17	5MHz	16QAM	23755	1RB#12	23.44	PASS
Band17	5MHz	QPSK	23755	1RB#24	24.70	PASS
Band17	5MHz	16QAM	23755	1RB#24	23.53	PASS
Band17	5MHz	QPSK	23755	12RB#0	23.48	PASS
Band17	5MHz	16QAM	23755	12RB#0	22.46	PASS
Band17	5MHz	QPSK	23755	12RB#6	23.48	PASS
Band17	5MHz	16QAM	23755	12RB#6	22.46	PASS
Band17	5MHz	QPSK	23755	12RB#13	23.48	PASS
Band17	5MHz	16QAM	23755	12RB#13	22.46	PASS
Band17	5MHz	QPSK	23755	25RB#0	23.53	PASS
Band17	5MHz	16QAM	23755	25RB#0	22.53	PASS
Band17	5MHz	QPSK	23790	1RB#0	24.47	PASS
Band17	5MHz	16QAM	23790	1RB#0	23.53	PASS
Band17	5MHz	QPSK	23790	1RB#12	24.57	PASS
Band17	5MHz	16QAM	23790	1RB#12	23.56	PASS
Band17	5MHz	QPSK	23790	1RB#24	24.53	PASS
Band17	5MHz	16QAM	23790	1RB#24	23.53	PASS
Band17	5MHz	QPSK	23790	12RB#0	23.50	PASS
Band17	5MHz	16QAM	23790	12RB#0	22.57	PASS
Band17	5MHz	QPSK	23790	12RB#6	23.50	PASS
Band17	5MHz	16QAM	23790	12RB#6	22.58	PASS
Band17	5MHz	QPSK	23790	12RB#13	23.43	PASS
Band17	5MHz	16QAM	23790	12RB#13	22.51	PASS
Band17	5MHz	QPSK	23790	25RB#0	23.53	PASS
Band17	5MHz	16QAM	23790	25RB#0	22.47	PASS
Band17	5MHz	QPSK	23825	1RB#0	24.49	PASS
Band17	5MHz	16QAM	23825	1RB#0	23.34	PASS
Band17	5MHz	QPSK	23825	1RB#12	24.57	PASS
Band17	5MHz	16QAM	23825	1RB#12	23.35	PASS
Band17	5MHz	QPSK	23825	1RB#24	24.58	PASS
Band17	5MHz	16QAM	23825	1RB#24	23.38	PASS
Band17	5MHz	QPSK	23825	12RB#0	23.49	PASS
Band17	5MHz	16QAM	23825	12RB#0	22.51	PASS





Band17	5MHz	QPSK	23825	12RB#6	23.48	PASS
Band17	5MHz	16QAM	23825	12RB#6	22.49	PASS
Band17	5MHz	QPSK	23825	12RB#13	23.45	PASS
Band17	5MHz	16QAM	23825	12RB#13	22.49	PASS
Band17	5MHz	QPSK	23825	25RB#0	23.50	PASS
Band17	5MHz	16QAM	23825	25RB#0	22.50	PASS
Band17	10MHz	QPSK	23780	1RB#0	24.49	PASS
Band17	10MHz	16QAM	23780	1RB#0	23.47	PASS
Band17	10MHz	QPSK	23780	1RB#24	24.51	PASS
Band17	10MHz	16QAM	23780	1RB#24	23.53	PASS
Band17	10MHz	QPSK	23780	1RB#49	24.41	PASS
Band17	10MHz	16QAM	23780	1RB#49	23.41	PASS
Band17	10MHz	QPSK	23780	25RB#0	23.49	PASS
Band17	10MHz	16QAM	23780	25RB#0	22.45	PASS
Band17	10MHz	QPSK	23780	25RB#12	23.50	PASS
Band17	10MHz	16QAM	23780	25RB#12	22.46	PASS
Band17	10MHz	QPSK	23780	25RB#25	23.47	PASS
Band17	10MHz	16QAM	23780	25RB#25	22.40	PASS
Band17	10MHz	QPSK	23780	50RB#0	23.45	PASS
Band17	10MHz	16QAM	23780	50RB#0	22.44	PASS
Band17	10MHz	QPSK	23790	1RB#0	24.48	PASS
Band17	10MHz	16QAM	23790	1RB#0	23.34	PASS
Band17	10MHz	QPSK	23790	1RB#24	24.47	PASS
Band17	10MHz	16QAM	23790	1RB#24	23.33	PASS
Band17	10MHz	QPSK	23790	1RB#49	24.49	PASS
Band17	10MHz	16QAM	23790	1RB#49	23.34	PASS
Band17	10MHz	QPSK	23790	25RB#0	23.47	PASS
Band17	10MHz	16QAM	23790	25RB#0	22.47	PASS
Band17	10MHz	QPSK	23790	25RB#12	23.48	PASS
Band17	10MHz	16QAM	23790	25RB#12	22.45	PASS
Band17	10MHz	QPSK	23790	25RB#25	23.42	PASS
Band17	10MHz	16QAM	23790	25RB#25	22.42	PASS
Band17	10MHz	QPSK	23790	50RB#0	23.43	PASS
Band17	10MHz	16QAM	23790	50RB#0	22.43	PASS
Band17	10MHz	QPSK	23800	1RB#0	24.54	PASS
Band17	10MHz	16QAM	23800	1RB#0	23.35	PASS
Band17	10MHz	QPSK	23800	1RB#24	24.37	PASS
Band17	10MHz	16QAM	23800	1RB#24	23.17	PASS
Band17	10MHz	QPSK	23800	1RB#49	24.43	PASS
Band17	10MHz	16QAM	23800	1RB#49	23.23	PASS
Band17	10MHz	QPSK	23800	25RB#0	23.48	PASS
Band17	10MHz	16QAM	23800	25RB#0	22.48	PASS





Band17	10MHz	QPSK	23800	25RB#12	23.50	PASS
Band17	10MHz	16QAM	23800	25RB#12	22.48	PASS
Band17	10MHz	QPSK	23800	25RB#25	23.43	PASS
Band17	10MHz	16QAM	23800	25RB#25	22.40	PASS
Band17	10MHz	QPSK	23800	50RB#0	23.44	PASS
Band17	10MHz	16QAM	23800	50RB#0	22.43	PASS





N.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	4.22	13	PASS
Band17	5MHz	16QAM	23755	1RB#0	4.95	13	PASS
Band17	5MHz	QPSK	23755	25RB#0	5.28	13	PASS
Band17	5MHz	16QAM	23755	25RB#0	5.96	13	PASS
Band17	5MHz	QPSK	23790	1RB#0	4.14	13	PASS
Band17	5MHz	16QAM	23790	1RB#0	4.87	13	PASS
Band17	5MHz	QPSK	23790	25RB#0	5.30	13	PASS
Band17	5MHz	16QAM	23790	25RB#0	5.99	13	PASS
Band17	5MHz	QPSK	23825	1RB#0	4.31	13	PASS
Band17	5MHz	16QAM	23825	1RB#0	5.08	13	PASS
Band17	5MHz	QPSK	23825	25RB#0	5.30	13	PASS
Band17	5MHz	16QAM	23825	25RB#0	6.00	13	PASS
Band17	10MHz	QPSK	23780	1RB#0	4.14	13	PASS
Band17	10MHz	16QAM	23780	1RB#0	5.07	13	PASS
Band17	10MHz	QPSK	23780	50RB#0	5.26	13	PASS
Band17	10MHz	16QAM	23780	50RB#0	6.00	13	PASS
Band17	10MHz	QPSK	23790	1RB#0	4.04	13	PASS
Band17	10MHz	16QAM	23790	1RB#0	4.90	13	PASS
Band17	10MHz	QPSK	23790	50RB#0	5.23	13	PASS
Band17	10MHz	16QAM	23790	50RB#0	6.02	13	PASS
Band17	10MHz	QPSK	23800	1RB#0	3.93	13	PASS
Band17	10MHz	16QAM	23800	1RB#0	5.04	13	PASS
Band17	10MHz	QPSK	23800	50RB#0	5.22	13	PASS
Band17	10MHz	16QAM	23800	50RB#0	6.01	13	PASS





Test Graphs



















N.3 26dB Bandwidth and Occupied Bandwidth

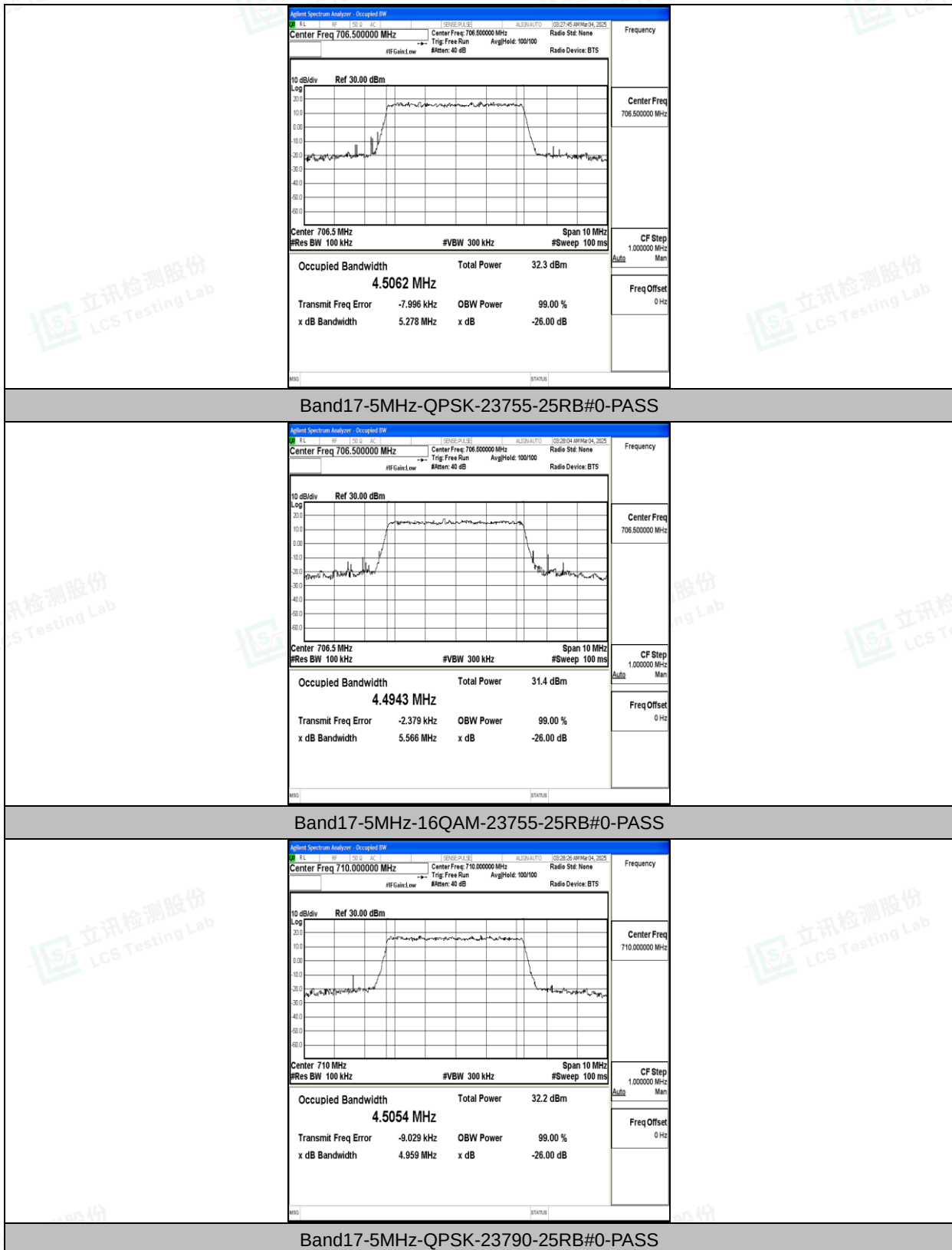
Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band17	5MHz	QPSK	23755	25RB#0	4.5062	5.278	PASS
Band17	5MHz	16QAM	23755	25RB#0	4.4943	5.566	PASS
Band17	5MHz	QPSK	23790	25RB#0	4.5054	4.959	PASS
Band17	5MHz	16QAM	23790	25RB#0	4.4921	4.932	PASS
Band17	5MHz	QPSK	23825	25RB#0	4.4995	5.039	PASS
Band17	5MHz	16QAM	23825	25RB#0	4.5084	5.370	PASS
Band17	10MHz	QPSK	23780	50RB#0	8.9741	9.855	PASS
Band17	10MHz	16QAM	23780	50RB#0	8.9716	9.787	PASS
Band17	10MHz	QPSK	23790	50RB#0	8.9846	9.864	PASS
Band17	10MHz	16QAM	23790	50RB#0	8.9735	9.830	PASS
Band17	10MHz	QPSK	23800	50RB#0	8.9662	10.02	PASS
Band17	10MHz	16QAM	23800	50RB#0	8.9728	9.738	PASS





Test Graphs









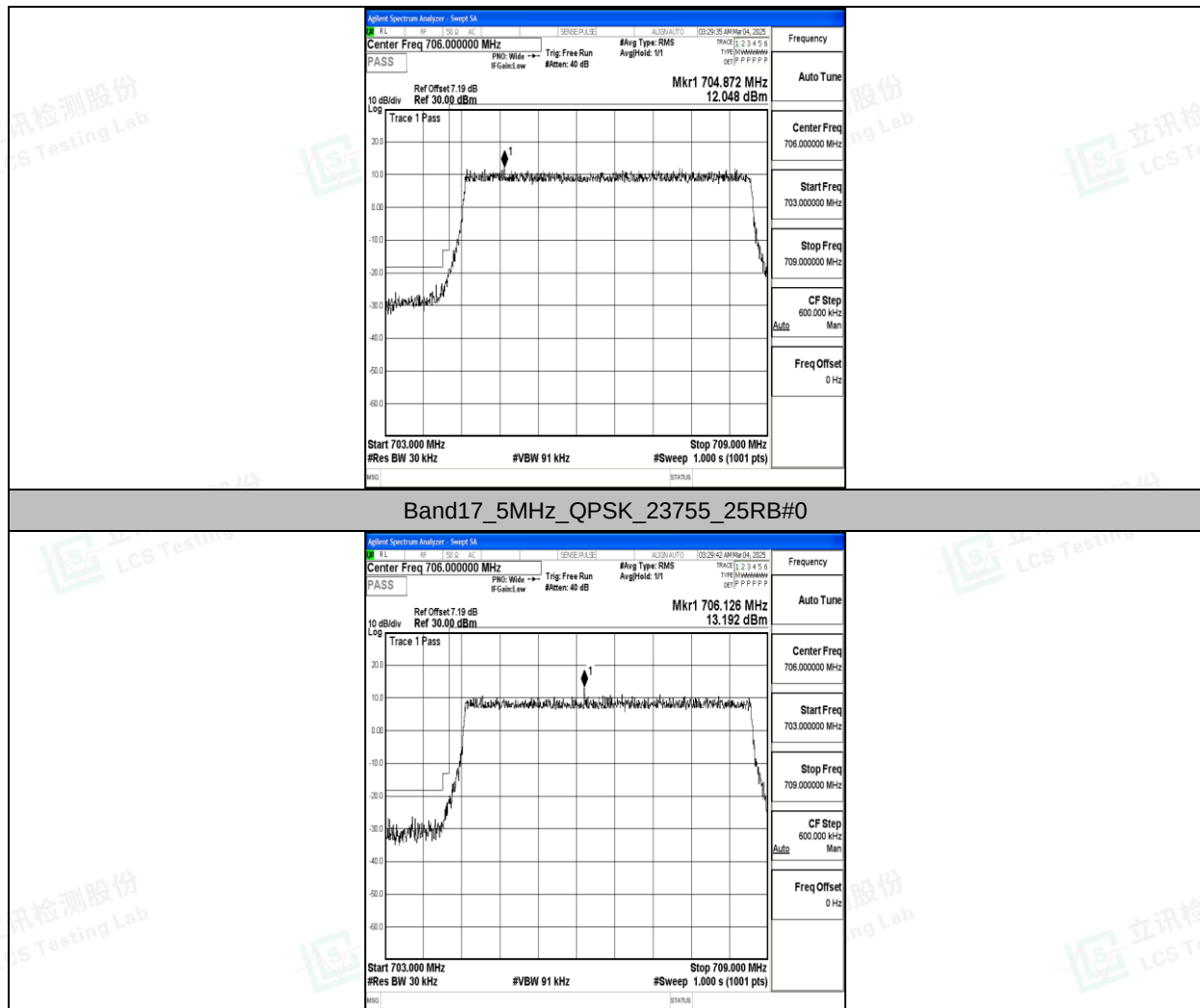


N.4 Band Edge

Test Result

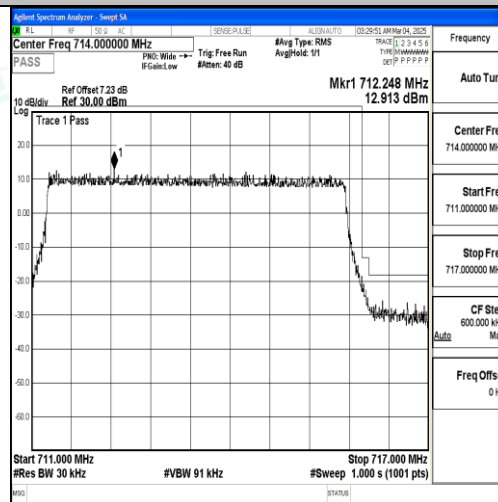
Band	Bandwidth	Modulation	Channel	RB Configuration	Peak Frequency	Result(dBm)	Verdict
Band17	5MHz	QPSK	23755	25RB#0	703.89	-23.37	PASS
Band17	5MHz	16QAM	23755	25RB#0	703.43	-26.32	PASS
Band17	5MHz	QPSK	23825	25RB#0	716.30	-25.82	PASS
Band17	5MHz	16QAM	23825	25RB#0	716.10	-25.49	PASS
Band17	10MHz	QPSK	23780	50RB#0	703.80	-28.80	PASS
Band17	10MHz	16QAM	23780	50RB#0	703.55	-31.23	PASS
Band17	10MHz	QPSK	23800	50RB#0	716.16	-30.18	PASS
Band17	10MHz	16QAM	23800	50RB#0	716.57	-33.51	PASS

Test Graphs

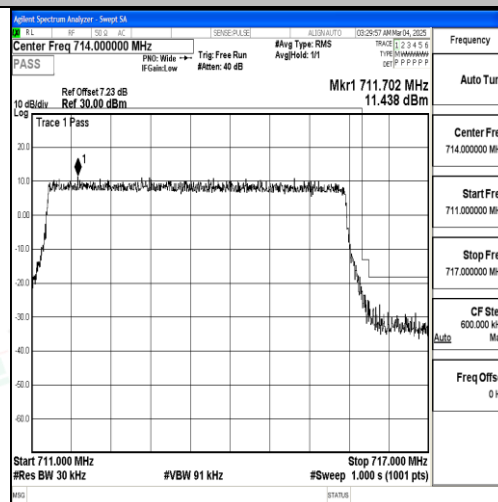




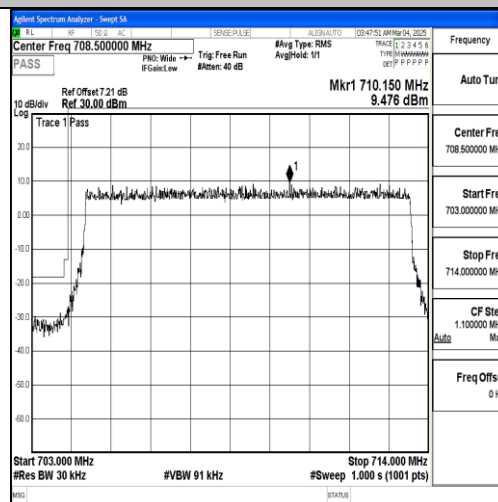
Band17_5MHz_16QAM_23755_25RB#0



Band17_5MHz_QPSK_23825_25RB#0



Band17_5MHz_16QAM_23825_25RB#0



Band17_10MHz_QPSK_23780_50RB#0







N.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	-55.93	PASS
Band17	5MHz	QPSK	23755	1RB#0	0.15~30	-42.23	PASS
Band17	5MHz	QPSK	23755	1RB#0	30~1000	-51.78	PASS
Band17	5MHz	QPSK	23755	1RB#0	1000~3000	-36.66	PASS
Band17	5MHz	QPSK	23755	1RB#0	3000~10000	-35.34	PASS
Band17	5MHz	16QAM	23755	1RB#0	0.009~0.15	-53.40	PASS
Band17	5MHz	16QAM	23755	1RB#0	0.15~30	-43.56	PASS
Band17	5MHz	16QAM	23755	1RB#0	30~1000	-52.08	PASS
Band17	5MHz	16QAM	23755	1RB#0	1000~3000	-36.73	PASS
Band17	5MHz	16QAM	23755	1RB#0	3000~10000	-35.61	PASS
Band17	5MHz	QPSK	23790	1RB#0	0.009~0.15	-61.86	PASS
Band17	5MHz	QPSK	23790	1RB#0	0.15~30	-46.96	PASS
Band17	5MHz	QPSK	23790	1RB#0	30~1000	-52.41	PASS
Band17	5MHz	QPSK	23790	1RB#0	1000~3000	-35.63	PASS
Band17	5MHz	QPSK	23790	1RB#0	3000~10000	-35.74	PASS
Band17	5MHz	16QAM	23790	1RB#0	0.009~0.15	-57.06	PASS
Band17	5MHz	16QAM	23790	1RB#0	0.15~30	-46.24	PASS
Band17	5MHz	16QAM	23790	1RB#0	30~1000	-53.27	PASS
Band17	5MHz	16QAM	23790	1RB#0	1000~3000	-36.08	PASS
Band17	5MHz	16QAM	23790	1RB#0	3000~10000	-34.76	PASS
Band17	5MHz	QPSK	23825	1RB#0	0.009~0.15	-59.79	PASS
Band17	5MHz	QPSK	23825	1RB#0	0.15~30	-48.16	PASS
Band17	5MHz	QPSK	23825	1RB#0	30~1000	-52.73	PASS
Band17	5MHz	QPSK	23825	1RB#0	1000~3000	-34.67	PASS
Band17	5MHz	QPSK	23825	1RB#0	3000~10000	-35.49	PASS
Band17	5MHz	16QAM	23825	1RB#0	0.009~0.15	-56.86	PASS
Band17	5MHz	16QAM	23825	1RB#0	0.15~30	-43.74	PASS
Band17	5MHz	16QAM	23825	1RB#0	30~1000	-52.37	PASS
Band17	5MHz	16QAM	23825	1RB#0	1000~3000	-35.48	PASS
Band17	5MHz	16QAM	23825	1RB#0	3000~10000	-35.62	PASS
Band17	10MHz	QPSK	23780	1RB#0	0.009~0.15	-56.45	PASS
Band17	10MHz	QPSK	23780	1RB#0	0.15~30	-45.86	PASS
Band17	10MHz	QPSK	23780	1RB#0	30~1000	-52.45	PASS
Band17	10MHz	QPSK	23780	1RB#0	1000~3000	-35.83	PASS
Band17	10MHz	QPSK	23780	1RB#0	3000~10000	-35.33	PASS
Band17	10MHz	16QAM	23780	1RB#0	0.009~0.15	-56.96	PASS



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

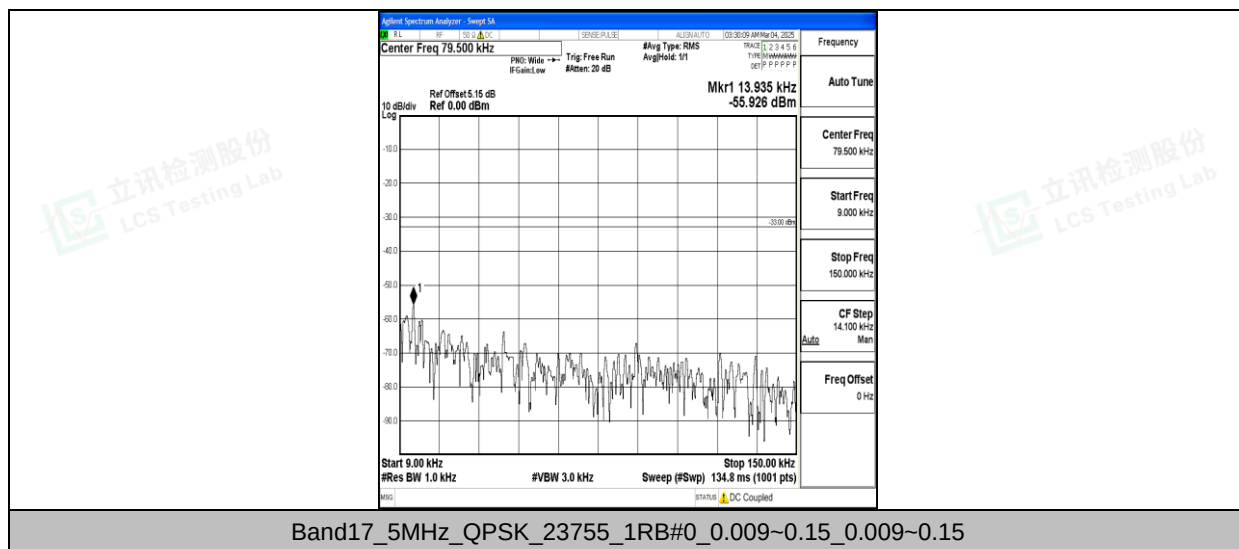
Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

Scan code to check authenticity



Band17	10MHz	16QAM	23780	1RB#0	0.15~30	-45.66	PASS
Band17	10MHz	16QAM	23780	1RB#0	30~1000	-52.89	PASS
Band17	10MHz	16QAM	23780	1RB#0	1000~3000	-37.50	PASS
Band17	10MHz	16QAM	23780	1RB#0	3000~10000	-35.46	PASS
Band17	10MHz	QPSK	23790	1RB#0	0.009~0.15	-59.06	PASS
Band17	10MHz	QPSK	23790	1RB#0	0.15~30	-45.81	PASS
Band17	10MHz	QPSK	23790	1RB#0	30~1000	-53.04	PASS
Band17	10MHz	QPSK	23790	1RB#0	1000~3000	-35.64	PASS
Band17	10MHz	QPSK	23790	1RB#0	3000~10000	-35.47	PASS
Band17	10MHz	16QAM	23790	1RB#0	0.009~0.15	-58.05	PASS
Band17	10MHz	16QAM	23790	1RB#0	0.15~30	-47.46	PASS
Band17	10MHz	16QAM	23790	1RB#0	30~1000	-52.42	PASS
Band17	10MHz	16QAM	23790	1RB#0	1000~3000	-35.94	PASS
Band17	10MHz	16QAM	23790	1RB#0	3000~10000	-34.50	PASS
Band17	10MHz	QPSK	23800	1RB#0	0.009~0.15	-52.57	PASS
Band17	10MHz	QPSK	23800	1RB#0	0.15~30	-46.87	PASS
Band17	10MHz	QPSK	23800	1RB#0	30~1000	-52.86	PASS
Band17	10MHz	QPSK	23800	1RB#0	1000~3000	-36.08	PASS
Band17	10MHz	QPSK	23800	1RB#0	3000~10000	-35.28	PASS
Band17	10MHz	16QAM	23800	1RB#0	0.009~0.15	-57.06	PASS
Band17	10MHz	16QAM	23800	1RB#0	0.15~30	-47.25	PASS
Band17	10MHz	16QAM	23800	1RB#0	30~1000	-52.30	PASS
Band17	10MHz	16QAM	23800	1RB#0	1000~3000	-36.81	PASS
Band17	10MHz	16QAM	23800	1RB#0	3000~10000	-35.04	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

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

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