



Appendix H Test Data for E-UTRA Band 17

Product Name: Global 4G Wifi Router

Test Model: TD20

Environmental Conditions

Temperature:	24.6° C
Relative Humidity:	53.6%
ATM Pressure:	100.0 kPa
Test Engineer:	Andre Tan
Supervised by:	Nick Peng



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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	22.65	PASS
Band17	5MHz	16QAM	23755	1RB#0	22.61	PASS
Band17	5MHz	QPSK	23755	1RB#12	22.74	PASS
Band17	5MHz	16QAM	23755	1RB#12	22.72	PASS
Band17	5MHz	QPSK	23755	1RB#24	22.71	PASS
Band17	5MHz	16QAM	23755	1RB#24	22.70	PASS
Band17	5MHz	QPSK	23755	12RB#0	22.69	PASS
Band17	5MHz	16QAM	23755	12RB#0	22.68	PASS
Band17	5MHz	QPSK	23755	12RB#6	22.67	PASS
Band17	5MHz	16QAM	23755	12RB#6	22.67	PASS
Band17	5MHz	QPSK	23755	12RB#13	22.66	PASS
Band17	5MHz	16QAM	23755	12RB#13	22.66	PASS
Band17	5MHz	QPSK	23755	25RB#0	22.71	PASS
Band17	5MHz	16QAM	23755	25RB#0	22.70	PASS
Band17	5MHz	QPSK	23790	1RB#0	23.59	PASS
Band17	5MHz	16QAM	23790	1RB#0	23.00	PASS
Band17	5MHz	QPSK	23790	1RB#12	23.50	PASS
Band17	5MHz	16QAM	23790	1RB#12	22.88	PASS
Band17	5MHz	QPSK	23790	1RB#24	23.35	PASS
Band17	5MHz	16QAM	23790	1RB#24	22.95	PASS
Band17	5MHz	QPSK	23790	12RB#0	22.62	PASS
Band17	5MHz	16QAM	23790	12RB#0	21.86	PASS
Band17	5MHz	QPSK	23790	12RB#6	22.79	PASS
Band17	5MHz	16QAM	23790	12RB#6	21.86	PASS
Band17	5MHz	QPSK	23790	12RB#13	22.69	PASS
Band17	5MHz	16QAM	23790	12RB#13	21.85	PASS
Band17	5MHz	QPSK	23790	25RB#0	22.75	PASS
Band17	5MHz	16QAM	23790	25RB#0	21.75	PASS
Band17	5MHz	QPSK	23825	1RB#0	23.51	PASS
Band17	5MHz	16QAM	23825	1RB#0	22.45	PASS
Band17	5MHz	QPSK	23825	1RB#12	23.50	PASS
Band17	5MHz	16QAM	23825	1RB#12	22.53	PASS
Band17	5MHz	QPSK	23825	1RB#24	23.77	PASS
Band17	5MHz	16QAM	23825	1RB#24	22.63	PASS





Band17	5MHz	QPSK	23825	12RB#0	22.64	PASS
Band17	5MHz	16QAM	23825	12RB#0	21.85	PASS
Band17	5MHz	QPSK	23825	12RB#6	22.69	PASS
Band17	5MHz	16QAM	23825	12RB#6	21.85	PASS
Band17	5MHz	QPSK	23825	12RB#13	22.66	PASS
Band17	5MHz	16QAM	23825	12RB#13	21.72	PASS
Band17	5MHz	QPSK	23825	25RB#0	22.75	PASS
Band17	5MHz	16QAM	23825	25RB#0	21.88	PASS
Band17	10MHz	QPSK	23780	1RB#0	23.44	PASS
Band17	10MHz	16QAM	23780	1RB#0	22.37	PASS
Band17	10MHz	QPSK	23780	1RB#24	23.25	PASS
Band17	10MHz	16QAM	23780	1RB#24	22.36	PASS
Band17	10MHz	QPSK	23780	1RB#49	23.40	PASS
Band17	10MHz	16QAM	23780	1RB#49	22.29	PASS
Band17	10MHz	QPSK	23780	25RB#0	22.48	PASS
Band17	10MHz	16QAM	23780	25RB#0	21.70	PASS
Band17	10MHz	QPSK	23780	25RB#12	22.49	PASS
Band17	10MHz	16QAM	23780	25RB#12	21.62	PASS
Band17	10MHz	QPSK	23780	25RB#25	22.62	PASS
Band17	10MHz	16QAM	23780	25RB#25	21.60	PASS
Band17	10MHz	QPSK	23780	50RB#0	22.55	PASS
Band17	10MHz	16QAM	23780	50RB#0	21.72	PASS
Band17	10MHz	QPSK	23790	1RB#0	23.70	PASS
Band17	10MHz	16QAM	23790	1RB#0	22.63	PASS
Band17	10MHz	QPSK	23790	1RB#24	23.59	PASS
Band17	10MHz	16QAM	23790	1RB#24	22.53	PASS
Band17	10MHz	QPSK	23790	1RB#49	23.62	PASS
Band17	10MHz	16QAM	23790	1RB#49	22.37	PASS
Band17	10MHz	QPSK	23790	25RB#0	22.66	PASS
Band17	10MHz	16QAM	23790	25RB#0	21.86	PASS
Band17	10MHz	QPSK	23790	25RB#12	22.67	PASS
Band17	10MHz	16QAM	23790	25RB#12	21.86	PASS
Band17	10MHz	QPSK	23790	25RB#25	22.44	PASS
Band17	10MHz	16QAM	23790	25RB#25	21.79	PASS
Band17	10MHz	QPSK	23790	50RB#0	22.53	PASS
Band17	10MHz	16QAM	23790	50RB#0	21.73	PASS
Band17	10MHz	QPSK	23800	1RB#0	23.33	PASS
Band17	10MHz	16QAM	23800	1RB#0	23.36	PASS
Band17	10MHz	QPSK	23800	1RB#24	23.17	PASS
Band17	10MHz	16QAM	23800	1RB#24	23.26	PASS



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Band17	10MHz	QPSK	23800	1RB#49	23.31	PASS
Band17	10MHz	16QAM	23800	1RB#49	23.24	PASS
Band17	10MHz	QPSK	23800	25RB#0	22.63	PASS
Band17	10MHz	16QAM	23800	25RB#0	21.69	PASS
Band17	10MHz	QPSK	23800	25RB#12	22.60	PASS
Band17	10MHz	16QAM	23800	25RB#12	21.70	PASS
Band17	10MHz	QPSK	23800	25RB#25	22.54	PASS
Band17	10MHz	16QAM	23800	25RB#25	21.78	PASS
Band17	10MHz	QPSK	23800	50RB#0	22.60	PASS
Band17	10MHz	16QAM	23800	50RB#0	21.73	PASS





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

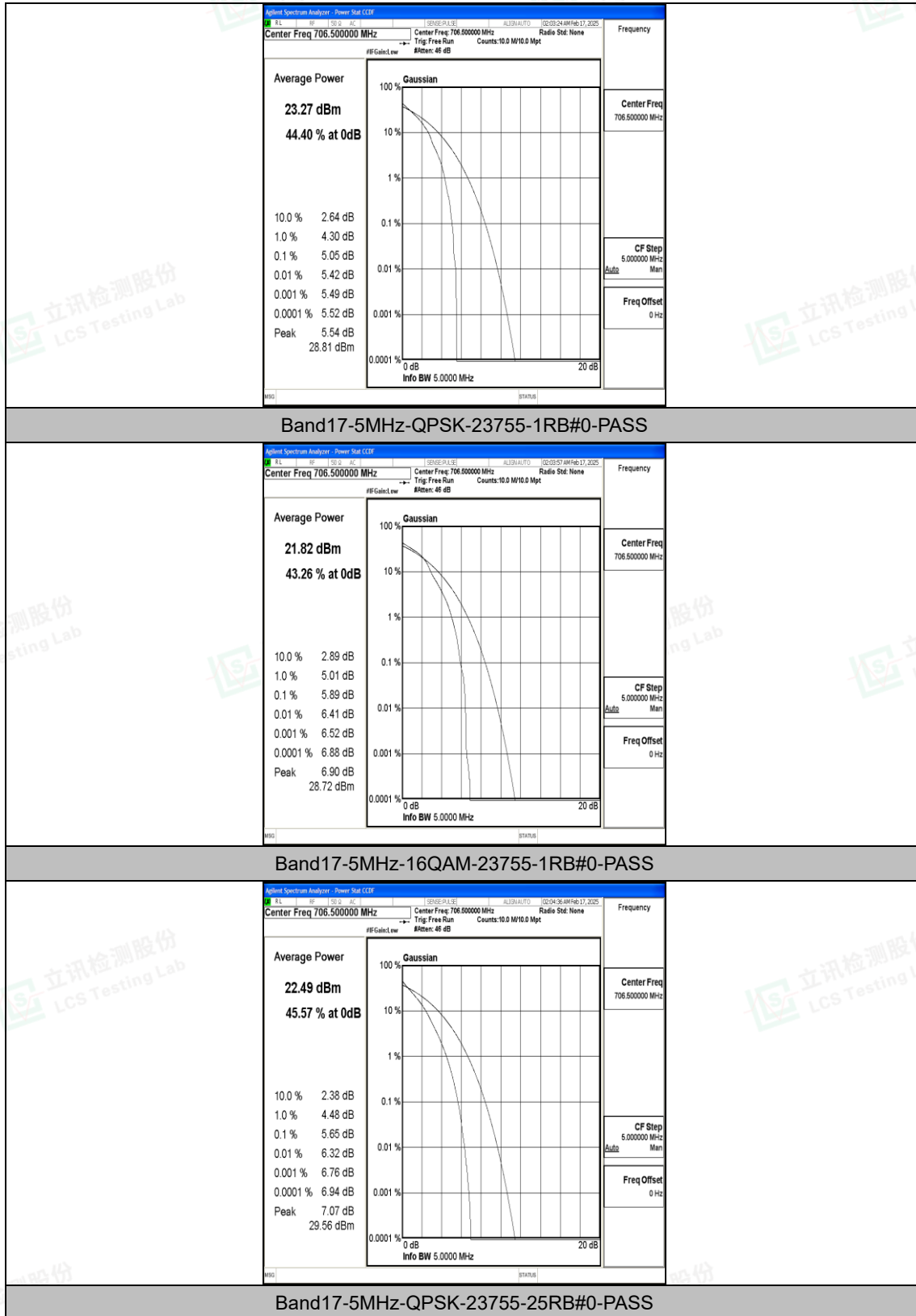
Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band17	5MHz	QPSK	23755	1RB#0	5.05	13	PASS
Band17	5MHz	16QAM	23755	1RB#0	5.89	13	PASS
Band17	5MHz	QPSK	23755	25RB#0	5.65	13	PASS
Band17	5MHz	16QAM	23755	25RB#0	6.30	13	PASS
Band17	5MHz	QPSK	23790	1RB#0	4.99	13	PASS
Band17	5MHz	16QAM	23790	1RB#0	5.82	13	PASS
Band17	5MHz	QPSK	23790	25RB#0	5.60	13	PASS
Band17	5MHz	16QAM	23790	25RB#0	6.29	13	PASS
Band17	5MHz	QPSK	23825	1RB#0	4.91	13	PASS
Band17	5MHz	16QAM	23825	1RB#0	5.67	13	PASS
Band17	5MHz	QPSK	23825	25RB#0	5.41	13	PASS
Band17	5MHz	16QAM	23825	25RB#0	6.08	13	PASS
Band17	10MHz	QPSK	23780	1RB#0	4.99	13	PASS
Band17	10MHz	16QAM	23780	1RB#0	5.89	13	PASS
Band17	10MHz	QPSK	23780	50RB#0	5.66	13	PASS
Band17	10MHz	16QAM	23780	50RB#0	6.34	13	PASS
Band17	10MHz	QPSK	23790	1RB#0	4.76	13	PASS
Band17	10MHz	16QAM	23790	1RB#0	5.70	13	PASS
Band17	10MHz	QPSK	23790	50RB#0	5.56	13	PASS
Band17	10MHz	16QAM	23790	50RB#0	6.33	13	PASS
Band17	10MHz	QPSK	23800	1RB#0	4.86	13	PASS
Band17	10MHz	16QAM	23800	1RB#0	5.46	13	PASS
Band17	10MHz	QPSK	23800	50RB#0	5.55	13	PASS
Band17	10MHz	16QAM	23800	50RB#0	6.28	13	PASS



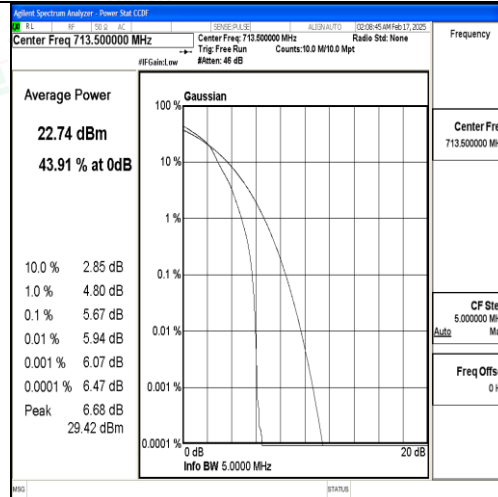


Test Graphs



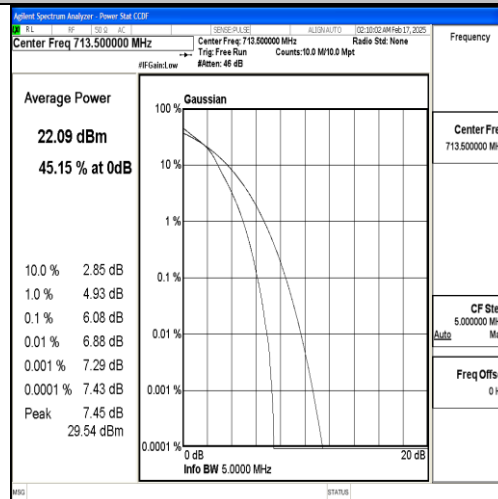






Band17-5MHz-16QAM-23825-1RB#0-PASS

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



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













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	4.5125	5.313	PASS
Band17	5MHz	16QAM	23755	25RB#0	4.5302	5.283	PASS
Band17	5MHz	QPSK	23790	25RB#0	4.5291	5.260	PASS
Band17	5MHz	16QAM	23790	25RB#0	4.5184	5.222	PASS
Band17	5MHz	QPSK	23825	25RB#0	4.5085	5.365	PASS
Band17	5MHz	16QAM	23825	25RB#0	4.5345	5.399	PASS
Band17	10MHz	QPSK	23780	50RB#0	9.0064	10.11	PASS
Band17	10MHz	16QAM	23780	50RB#0	8.9975	10.20	PASS
Band17	10MHz	QPSK	23790	50RB#0	9.0162	10.12	PASS
Band17	10MHz	16QAM	23790	50RB#0	9.0048	10.49	PASS
Band17	10MHz	QPSK	23800	50RB#0	8.9832	10.04	PASS
Band17	10MHz	16QAM	23800	50RB#0	8.9774	10.11	PASS



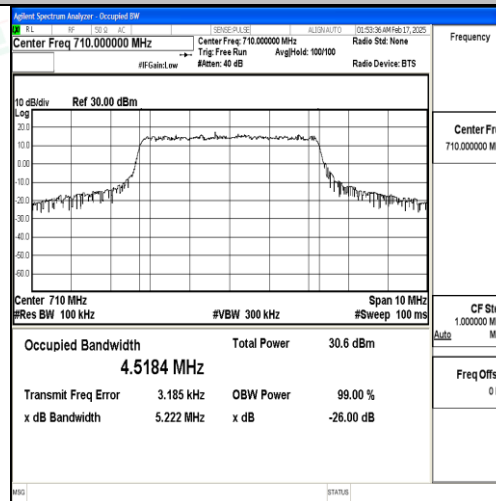


Test Graphs

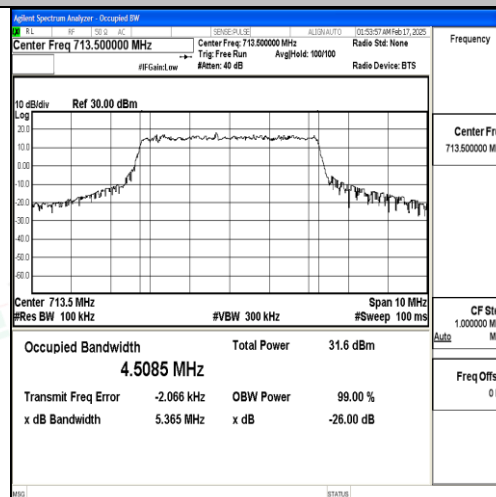




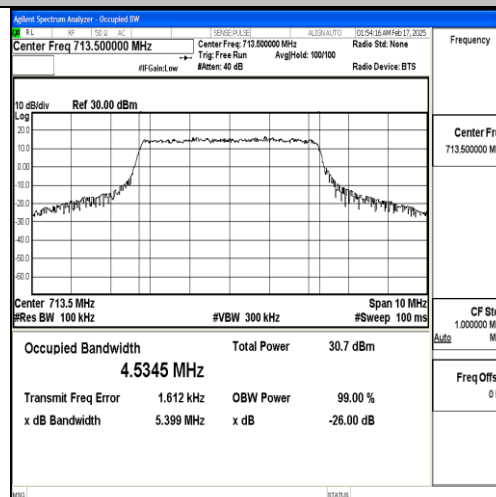
Band17-5MHz-QPSK-23790-25RB#0-PASS



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

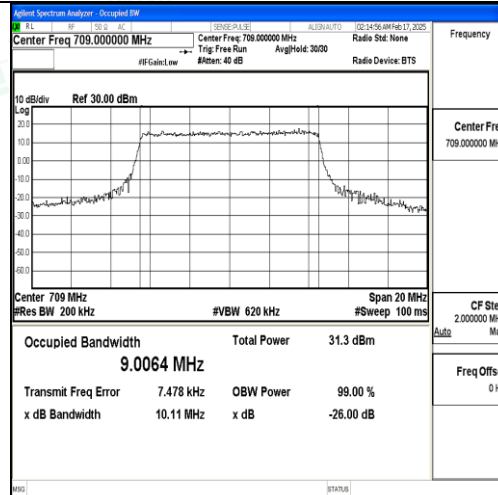


Band17-5MHz-QPSK-23825-25RB#0-PASS

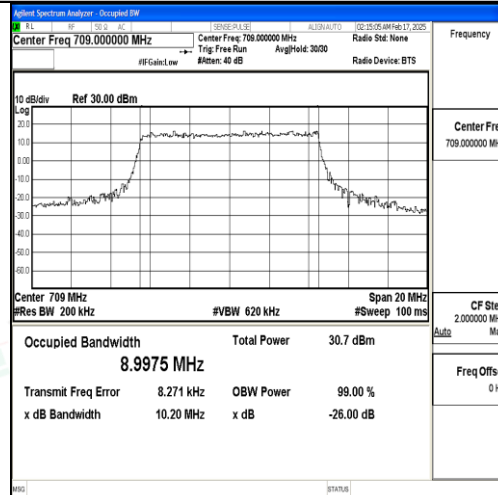


Band17-5MHz-16QAM-23825-25RB#0-PASS

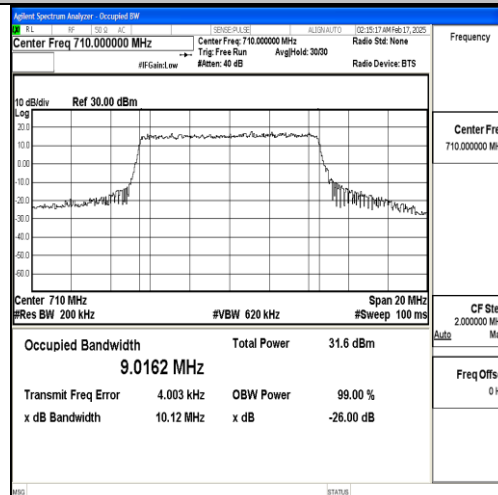




Band17-10MHz-QPSK-23780-50RB#0-PASS



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



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



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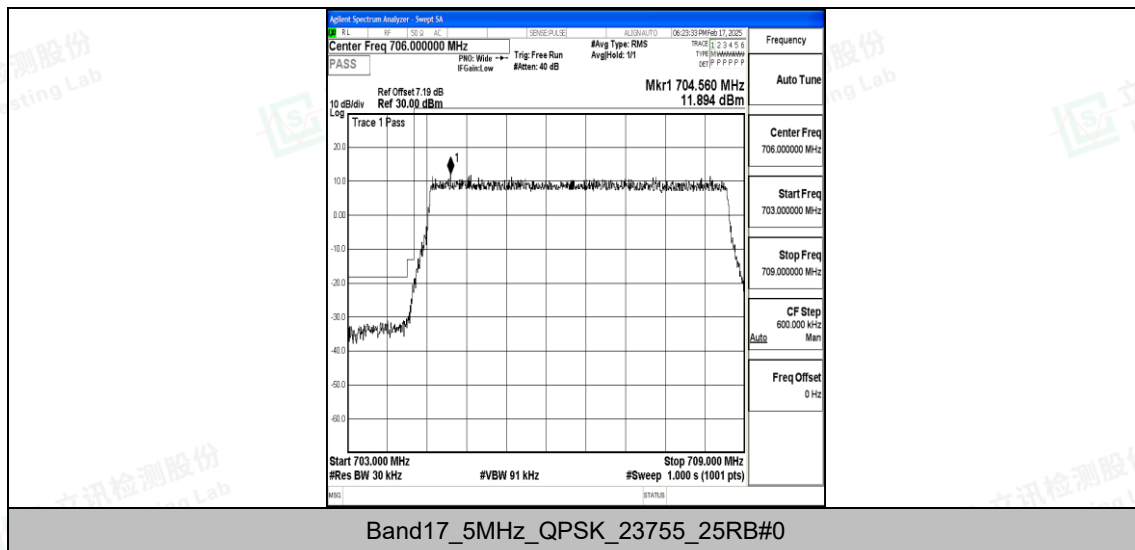


H.4 Band Edge

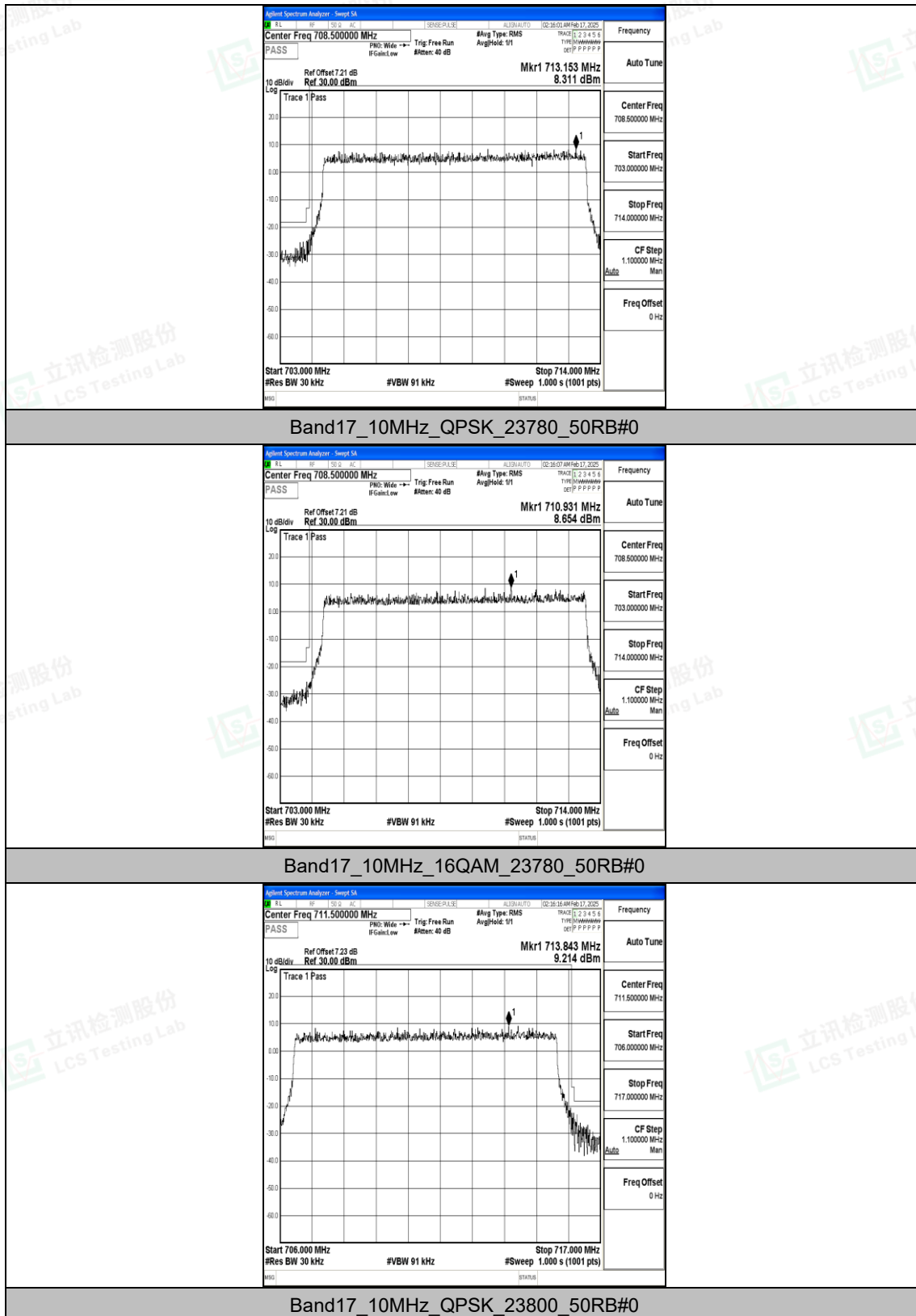
Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Peak Frequency	Result(dBm)	Verdict
Band17	5MHz	QPSK	23755	25RB#0	703.99	-20.57	PASS
Band17	5MHz	16QAM	23755	25RB#0	703.99	-21.21	PASS
Band17	5MHz	QPSK	23825	25RB#0	716.00	-21.68	PASS
Band17	5MHz	16QAM	23825	25RB#0	716.15	-29.03	PASS_Final1
Band17	10MHz	QPSK	23780	50RB#0	703.80	-25.45	PASS
Band17	10MHz	16QAM	23780	50RB#0	703.89	-27.69	PASS
Band17	10MHz	QPSK	23800	50RB#0	716.19	-23.08	PASS
Band17	10MHz	16QAM	23800	50RB#0	716.21	-23.86	PASS
Band17	5MHz	16QAM	23825	25RB#0	716.77	-26.74	PASS

Test Graphs









Band17_10MHz_16QAM_23800_50RB#0

Band17_5MHz_16QAM_23825_25RB#0





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	-54.69	PASS
Band17	5MHz	QPSK	23755	1RB#0	0.15~30	-47.00	PASS
Band17	5MHz	QPSK	23755	1RB#0	30~1000	-43.96	PASS
Band17	5MHz	QPSK	23755	1RB#0	1000~3000	-36.92	PASS
Band17	5MHz	QPSK	23755	1RB#0	3000~10000	-35.70	PASS
Band17	5MHz	16QAM	23755	1RB#0	0.009~0.15	-57.66	PASS
Band17	5MHz	16QAM	23755	1RB#0	0.15~30	-46.85	PASS
Band17	5MHz	16QAM	23755	1RB#0	30~1000	-44.85	PASS
Band17	5MHz	16QAM	23755	1RB#0	1000~3000	-37.78	PASS
Band17	5MHz	16QAM	23755	1RB#0	3000~10000	-35.32	PASS
Band17	5MHz	QPSK	23790	1RB#0	0.009~0.15	-57.67	PASS
Band17	5MHz	QPSK	23790	1RB#0	0.15~30	-45.20	PASS
Band17	5MHz	QPSK	23790	1RB#0	30~1000	-43.21	PASS
Band17	5MHz	QPSK	23790	1RB#0	1000~3000	-36.48	PASS
Band17	5MHz	QPSK	23790	1RB#0	3000~10000	-35.30	PASS
Band17	5MHz	16QAM	23790	1RB#0	0.009~0.15	-55.56	PASS
Band17	5MHz	16QAM	23790	1RB#0	0.15~30	-43.51	PASS
Band17	5MHz	16QAM	23790	1RB#0	30~1000	-44.47	PASS
Band17	5MHz	16QAM	23790	1RB#0	1000~3000	-37.10	PASS
Band17	5MHz	16QAM	23790	1RB#0	3000~10000	-35.64	PASS
Band17	5MHz	QPSK	23825	1RB#0	0.009~0.15	-57.88	PASS
Band17	5MHz	QPSK	23825	1RB#0	0.15~30	-47.63	PASS
Band17	5MHz	QPSK	23825	1RB#0	30~1000	-39.83	PASS
Band17	5MHz	QPSK	23825	1RB#0	1000~3000	-36.82	PASS
Band17	5MHz	QPSK	23825	1RB#0	3000~10000	-35.69	PASS
Band17	5MHz	16QAM	23825	1RB#0	0.009~0.15	-60.04	PASS
Band17	5MHz	16QAM	23825	1RB#0	0.15~30	-44.02	PASS
Band17	5MHz	16QAM	23825	1RB#0	30~1000	-40.66	PASS
Band17	5MHz	16QAM	23825	1RB#0	1000~3000	-36.01	PASS
Band17	5MHz	16QAM	23825	1RB#0	3000~10000	-34.86	PASS
Band17	10MHz	QPSK	23780	1RB#0	0.009~0.15	-58.53	PASS
Band17	10MHz	QPSK	23780	1RB#0	0.15~30	-44.98	PASS
Band17	10MHz	QPSK	23780	1RB#0	30~1000	-52.95	PASS



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Band17	10MHz	QPSK	23780	1RB#0	1000~3000	-37.99	PASS
Band17	10MHz	QPSK	23780	1RB#0	3000~10000	-34.90	PASS
Band17	10MHz	16QAM	23780	1RB#0	0.009~0.15	-56.08	PASS
Band17	10MHz	16QAM	23780	1RB#0	0.15~30	-47.89	PASS
Band17	10MHz	16QAM	23780	1RB#0	30~1000	-53.23	PASS
Band17	10MHz	16QAM	23780	1RB#0	1000~3000	-37.44	PASS
Band17	10MHz	16QAM	23780	1RB#0	3000~10000	-35.22	PASS
Band17	10MHz	QPSK	23790	1RB#0	0.009~0.15	-56.91	PASS
Band17	10MHz	QPSK	23790	1RB#0	0.15~30	-45.37	PASS
Band17	10MHz	QPSK	23790	1RB#0	30~1000	-52.53	PASS
Band17	10MHz	QPSK	23790	1RB#0	1000~3000	-38.09	PASS
Band17	10MHz	QPSK	23790	1RB#0	3000~10000	-35.59	PASS
Band17	10MHz	16QAM	23790	1RB#0	0.009~0.15	-58.94	PASS
Band17	10MHz	16QAM	23790	1RB#0	0.15~30	-47.16	PASS
Band17	10MHz	16QAM	23790	1RB#0	30~1000	-52.44	PASS
Band17	10MHz	16QAM	23790	1RB#0	1000~3000	-37.28	PASS
Band17	10MHz	16QAM	23790	1RB#0	3000~10000	-33.97	PASS
Band17	10MHz	QPSK	23800	1RB#0	0.009~0.15	-56.96	PASS
Band17	10MHz	QPSK	23800	1RB#0	0.15~30	-45.86	PASS
Band17	10MHz	QPSK	23800	1RB#0	30~1000	-52.39	PASS
Band17	10MHz	QPSK	23800	1RB#0	1000~3000	-38.56	PASS
Band17	10MHz	QPSK	23800	1RB#0	3000~10000	-34.91	PASS
Band17	10MHz	16QAM	23800	1RB#0	0.009~0.15	-58.32	PASS
Band17	10MHz	16QAM	23800	1RB#0	0.15~30	-46.81	PASS
Band17	10MHz	16QAM	23800	1RB#0	30~1000	-52.47	PASS
Band17	10MHz	16QAM	23800	1RB#0	1000~3000	-38.39	PASS
Band17	10MHz	16QAM	23800	1RB#0	3000~10000	-34.05	PASS





Test Graphs



