

Appendix for LTE BAND 5

Product Name: Smart Phone

Model No: X68

Appendix A: Average Power Output Data

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band5	1.4MHz	QPSK	20407	1RB#0	24.15	PASS
Band5	1.4MHz	16QAM	20407	1RB#0	23.02	PASS
Band5	1.4MHz	QPSK	20407	1RB#2	24.28	PASS
Band5	1.4MHz	16QAM	20407	1RB#2	23.17	PASS
Band5	1.4MHz	QPSK	20407	1RB#5	24.18	PASS
Band5	1.4MHz	16QAM	20407	1RB#5	23.06	PASS
Band5	1.4MHz	QPSK	20407	3RB#0	24.23	PASS
Band5	1.4MHz	16QAM	20407	3RB#0	22.96	PASS
Band5	1.4MHz	QPSK	20407	3RB#1	24.21	PASS
Band5	1.4MHz	16QAM	20407	3RB#1	23.01	PASS
Band5	1.4MHz	QPSK	20407	3RB#3	24.20	PASS
Band5	1.4MHz	16QAM	20407	3RB#3	22.99	PASS
Band5	1.4MHz	QPSK	20407	6RB#0	23.21	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	22.24	PASS
Band5	1.4MHz	QPSK	20525	1RB#0	24.40	PASS
Band5	1.4MHz	16QAM	20525	1RB#0	23.30	PASS
Band5	1.4MHz	QPSK	20525	1RB#2	24.55	PASS
Band5	1.4MHz	16QAM	20525	1RB#2	23.58	PASS
Band5	1.4MHz	QPSK	20525	1RB#5	24.35	PASS
Band5	1.4MHz	16QAM	20525	1RB#5	23.28	PASS
Band5	1.4MHz	QPSK	20525	3RB#0	24.50	PASS
Band5	1.4MHz	16QAM	20525	3RB#0	23.26	PASS
Band5	1.4MHz	QPSK	20525	3RB#1	24.47	PASS
Band5	1.4MHz	16QAM	20525	3RB#1	23.26	PASS
Band5	1.4MHz	QPSK	20525	3RB#3	24.49	PASS
Band5	1.4MHz	16QAM	20525	3RB#3	23.25	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	23.47	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	22.50	PASS
Band5	1.4MHz	QPSK	20643	1RB#0	24.55	PASS
Band5	1.4MHz	16QAM	20643	1RB#0	23.36	PASS
Band5	1.4MHz	QPSK	20643	1RB#2	24.67	PASS
Band5	1.4MHz	16QAM	20643	1RB#2	23.48	PASS
Band5	1.4MHz	QPSK	20643	1RB#5	24.54	PASS
Band5	1.4MHz	16QAM	20643	1RB#5	23.29	PASS
Band5	1.4MHz	QPSK	20643	3RB#0	24.55	PASS
Band5	1.4MHz	16QAM	20643	3RB#0	23.35	PASS

Band5	1.4MHz	QPSK	20643	3RB#1	24.57	PASS
Band5	1.4MHz	16QAM	20643	3RB#1	23.34	PASS
Band5	1.4MHz	QPSK	20643	3RB#3	24.59	PASS
Band5	1.4MHz	16QAM	20643	3RB#3	23.33	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	23.61	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	22.57	PASS
Band5	3MHz	QPSK	20415	1RB#0	24.20	PASS
Band5	3MHz	16QAM	20415	1RB#0	23.16	PASS
Band5	3MHz	QPSK	20415	1RB#8	24.21	PASS
Band5	3MHz	16QAM	20415	1RB#8	23.17	PASS
Band5	3MHz	QPSK	20415	1RB#14	24.25	PASS
Band5	3MHz	16QAM	20415	1RB#14	23.17	PASS
Band5	3MHz	QPSK	20415	8RB#0	23.18	PASS
Band5	3MHz	16QAM	20415	8RB#0	22.25	PASS
Band5	3MHz	QPSK	20415	8RB#4	23.16	PASS
Band5	3MHz	16QAM	20415	8RB#4	22.23	PASS
Band5	3MHz	QPSK	20415	8RB#7	23.22	PASS
Band5	3MHz	16QAM	20415	8RB#7	22.27	PASS
Band5	3MHz	QPSK	20415	15RB#0	23.15	PASS
Band5	3MHz	16QAM	20415	15RB#0	22.21	PASS
Band5	3MHz	QPSK	20525	1RB#0	24.45	PASS
Band5	3MHz	16QAM	20525	1RB#0	23.31	PASS
Band5	3MHz	QPSK	20525	1RB#8	24.51	PASS
Band5	3MHz	16QAM	20525	1RB#8	23.30	PASS
Band5	3MHz	QPSK	20525	1RB#14	24.52	PASS
Band5	3MHz	16QAM	20525	1RB#14	23.26	PASS
Band5	3MHz	QPSK	20525	8RB#0	23.45	PASS
Band5	3MHz	16QAM	20525	8RB#0	22.48	PASS
Band5	3MHz	QPSK	20525	8RB#4	23.40	PASS
Band5	3MHz	16QAM	20525	8RB#4	22.44	PASS
Band5	3MHz	QPSK	20525	8RB#7	23.42	PASS
Band5	3MHz	16QAM	20525	8RB#7	22.43	PASS
Band5	3MHz	QPSK	20525	15RB#0	23.44	PASS
Band5	3MHz	16QAM	20525	15RB#0	22.40	PASS
Band5	3MHz	QPSK	20635	1RB#0	24.61	PASS
Band5	3MHz	16QAM	20635	1RB#0	23.59	PASS
Band5	3MHz	QPSK	20635	1RB#8	24.58	PASS
Band5	3MHz	16QAM	20635	1RB#8	23.51	PASS
Band5	3MHz	QPSK	20635	1RB#14	24.60	PASS
Band5	3MHz	16QAM	20635	1RB#14	23.49	PASS
Band5	3MHz	QPSK	20635	8RB#0	23.63	PASS
Band5	3MHz	16QAM	20635	8RB#0	22.65	PASS

Band5	3MHz	QPSK	20635	8RB#4	23.64	PASS
Band5	3MHz	16QAM	20635	8RB#4	22.66	PASS
Band5	3MHz	QPSK	20635	8RB#7	23.55	PASS
Band5	3MHz	16QAM	20635	8RB#7	22.56	PASS
Band5	3MHz	QPSK	20635	15RB#0	23.58	PASS
Band5	3MHz	16QAM	20635	15RB#0	22.57	PASS
Band5	5MHz	QPSK	20425	1RB#0	24.18	PASS
Band5	5MHz	16QAM	20425	1RB#0	23.11	PASS
Band5	5MHz	QPSK	20425	1RB#12	24.33	PASS
Band5	5MHz	16QAM	20425	1RB#12	23.24	PASS
Band5	5MHz	QPSK	20425	1RB#24	24.25	PASS
Band5	5MHz	16QAM	20425	1RB#24	23.20	PASS
Band5	5MHz	QPSK	20425	12RB#0	23.17	PASS
Band5	5MHz	16QAM	20425	12RB#0	22.17	PASS
Band5	5MHz	QPSK	20425	12RB#6	23.18	PASS
Band5	5MHz	16QAM	20425	12RB#6	22.16	PASS
Band5	5MHz	QPSK	20425	12RB#13	23.19	PASS
Band5	5MHz	16QAM	20425	12RB#13	22.21	PASS
Band5	5MHz	QPSK	20425	25RB#0	23.20	PASS
Band5	5MHz	16QAM	20425	25RB#0	22.26	PASS
Band5	5MHz	QPSK	20525	1RB#0	24.33	PASS
Band5	5MHz	16QAM	20525	1RB#0	23.41	PASS
Band5	5MHz	QPSK	20525	1RB#12	24.54	PASS
Band5	5MHz	16QAM	20525	1RB#12	23.59	PASS
Band5	5MHz	QPSK	20525	1RB#24	24.44	PASS
Band5	5MHz	16QAM	20525	1RB#24	23.46	PASS
Band5	5MHz	QPSK	20525	12RB#0	23.51	PASS
Band5	5MHz	16QAM	20525	12RB#0	22.56	PASS
Band5	5MHz	QPSK	20525	12RB#6	23.48	PASS
Band5	5MHz	16QAM	20525	12RB#6	22.53	PASS
Band5	5MHz	QPSK	20525	12RB#13	23.42	PASS
Band5	5MHz	16QAM	20525	12RB#13	22.48	PASS
Band5	5MHz	QPSK	20525	25RB#0	23.48	PASS
Band5	5MHz	16QAM	20525	25RB#0	22.51	PASS
Band5	5MHz	QPSK	20625	1RB#0	24.54	PASS
Band5	5MHz	16QAM	20625	1RB#0	23.49	PASS
Band5	5MHz	QPSK	20625	1RB#12	24.68	PASS
Band5	5MHz	16QAM	20625	1RB#12	23.59	PASS
Band5	5MHz	QPSK	20625	1RB#24	24.55	PASS
Band5	5MHz	16QAM	20625	1RB#24	23.42	PASS
Band5	5MHz	QPSK	20625	12RB#0	23.52	PASS
Band5	5MHz	16QAM	20625	12RB#0	22.60	PASS

Band5	5MHz	QPSK	20625	12RB#6	23.59	PASS
Band5	5MHz	16QAM	20625	12RB#6	22.57	PASS
Band5	5MHz	QPSK	20625	12RB#13	23.53	PASS
Band5	5MHz	16QAM	20625	12RB#13	22.44	PASS
Band5	5MHz	QPSK	20625	25RB#0	23.54	PASS
Band5	5MHz	16QAM	20625	25RB#0	22.60	PASS
Band5	10MHz	QPSK	20450	1RB#0	24.17	PASS
Band5	10MHz	16QAM	20450	1RB#0	23.14	PASS
Band5	10MHz	QPSK	20450	1RB#24	24.42	PASS
Band5	10MHz	16QAM	20450	1RB#24	23.39	PASS
Band5	10MHz	QPSK	20450	1RB#49	24.39	PASS
Band5	10MHz	16QAM	20450	1RB#49	23.36	PASS
Band5	10MHz	QPSK	20450	25RB#0	23.32	PASS
Band5	10MHz	16QAM	20450	25RB#0	22.33	PASS
Band5	10MHz	QPSK	20450	25RB#12	23.30	PASS
Band5	10MHz	16QAM	20450	25RB#12	22.31	PASS
Band5	10MHz	QPSK	20450	25RB#25	23.47	PASS
Band5	10MHz	16QAM	20450	25RB#25	22.47	PASS
Band5	10MHz	QPSK	20450	50RB#0	23.39	PASS
Band5	10MHz	16QAM	20450	50RB#0	22.37	PASS
Band5	10MHz	QPSK	20525	1RB#0	24.38	PASS
Band5	10MHz	16QAM	20525	1RB#0	23.28	PASS
Band5	10MHz	QPSK	20525	1RB#24	24.58	PASS
Band5	10MHz	16QAM	20525	1RB#24	23.47	PASS
Band5	10MHz	QPSK	20525	1RB#49	24.61	PASS
Band5	10MHz	16QAM	20525	1RB#49	23.42	PASS
Band5	10MHz	QPSK	20525	25RB#0	23.57	PASS
Band5	10MHz	16QAM	20525	25RB#0	22.64	PASS
Band5	10MHz	QPSK	20525	25RB#12	23.57	PASS
Band5	10MHz	16QAM	20525	25RB#12	22.62	PASS
Band5	10MHz	QPSK	20525	25RB#25	23.59	PASS
Band5	10MHz	16QAM	20525	25RB#25	22.63	PASS
Band5	10MHz	QPSK	20525	50RB#0	23.55	PASS
Band5	10MHz	16QAM	20525	50RB#0	22.60	PASS
Band5	10MHz	QPSK	20600	1RB#0	24.53	PASS
Band5	10MHz	16QAM	20600	1RB#0	23.54	PASS
Band5	10MHz	QPSK	20600	1RB#24	24.72	PASS
Band5	10MHz	16QAM	20600	1RB#24	23.69	PASS
Band5	10MHz	QPSK	20600	1RB#49	24.54	PASS
Band5	10MHz	16QAM	20600	1RB#49	23.52	PASS
Band5	10MHz	QPSK	20600	25RB#0	23.68	PASS
Band5	10MHz	16QAM	20600	25RB#0	22.71	PASS

Band5	10MHz	QPSK	20600	25RB#12	23.67	PASS
Band5	10MHz	16QAM	20600	25RB#12	22.73	PASS
Band5	10MHz	QPSK	20600	25RB#25	23.56	PASS
Band5	10MHz	16QAM	20600	25RB#25	22.65	PASS
Band5	10MHz	QPSK	20600	50RB#0	23.60	PASS
Band5	10MHz	16QAM	20600	50RB#0	22.68	PASS

Appendix B: Peak-to-Average Ratio(CCDF)

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band5	1.4MHz	QPSK	20407	1RB#0	4.17	13	PASS
Band5	1.4MHz	16QAM	20407	1RB#0	5.25	13	PASS
Band5	1.4MHz	QPSK	20407	6RB#0	4.90	13	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	5.74	13	PASS
Band5	1.4MHz	QPSK	20525	1RB#0	4.46	13	PASS
Band5	1.4MHz	16QAM	20525	1RB#0	5.36	13	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	5.07	13	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	5.94	13	PASS
Band5	1.4MHz	QPSK	20643	1RB#0	3.65	13	PASS
Band5	1.4MHz	16QAM	20643	1RB#0	4.78	13	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	4.41	13	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	5.33	13	PASS
Band5	3MHz	QPSK	20415	1RB#0	4.17	13	PASS
Band5	3MHz	16QAM	20415	1RB#0	5.07	13	PASS
Band5	3MHz	QPSK	20415	15RB#0	5.04	13	PASS
Band5	3MHz	16QAM	20415	15RB#0	5.88	13	PASS
Band5	3MHz	QPSK	20525	1RB#0	4.49	13	PASS
Band5	3MHz	16QAM	20525	1RB#0	5.36	13	PASS
Band5	3MHz	QPSK	20525	15RB#0	5.19	13	PASS
Band5	3MHz	16QAM	20525	15RB#0	6.00	13	PASS
Band5	3MHz	QPSK	20635	1RB#0	3.71	13	PASS
Band5	3MHz	16QAM	20635	1RB#0	4.90	13	PASS
Band5	3MHz	QPSK	20635	15RB#0	4.49	13	PASS
Band5	3MHz	16QAM	20635	15RB#0	5.45	13	PASS
Band5	5MHz	QPSK	20425	1RB#0	4.32	13	PASS
Band5	5MHz	16QAM	20425	1RB#0	5.04	13	PASS
Band5	5MHz	QPSK	20425	25RB#0	5.13	13	PASS
Band5	5MHz	16QAM	20425	25RB#0	5.91	13	PASS
Band5	5MHz	QPSK	20525	1RB#0	4.72	13	PASS
Band5	5MHz	16QAM	20525	1RB#0	5.45	13	PASS
Band5	5MHz	QPSK	20525	25RB#0	5.25	13	PASS
Band5	5MHz	16QAM	20525	25RB#0	6.00	13	PASS
Band5	5MHz	QPSK	20625	1RB#0	4.12	13	PASS
Band5	5MHz	16QAM	20625	1RB#0	4.93	13	PASS
Band5	5MHz	QPSK	20625	25RB#0	4.72	13	PASS
Band5	5MHz	16QAM	20625	25RB#0	5.57	13	PASS

Band5	10MHz	QPSK	20450	1RB#0	4.23	13	PASS
Band5	10MHz	16QAM	20450	1RB#0	5.13	13	PASS
Band5	10MHz	QPSK	20450	50RB#0	5.28	13	PASS
Band5	10MHz	16QAM	20450	50RB#0	6.06	13	PASS
Band5	10MHz	QPSK	20525	1RB#0	4.72	13	PASS
Band5	10MHz	16QAM	20525	1RB#0	5.57	13	PASS
Band5	10MHz	QPSK	20525	50RB#0	5.30	13	PASS
Band5	10MHz	16QAM	20525	50RB#0	6.12	13	PASS
Band5	10MHz	QPSK	20600	1RB#0	4.55	13	PASS
Band5	10MHz	16QAM	20600	1RB#0	5.68	13	PASS
Band5	10MHz	QPSK	20600	50RB#0	5.01	13	PASS
Band5	10MHz	16QAM	20600	50RB#0	5.88	13	PASS

Test Graphs



