

# Appendix B.5

## LTE Band 5



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## Effective (Isotropic) Radiated Power Output Data

Test for Spot check the max BW power:

### Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	ERP (dBm)	Limit (dBm)	Verdict
Band5	10MHz	QPSK	20450	1RB#0	22.48	19.65	38.5	PASS
Band5	10MHz	QPSK	20450	1RB#25	22.90	20.07	38.5	PASS
Band5	10MHz	QPSK	20450	1RB#49	22.62	19.79	38.5	PASS
Band5	10MHz	QPSK	20450	25RB#0	21.87	19.04	38.5	PASS
Band5	10MHz	QPSK	20450	25RB#13	21.80	18.97	38.5	PASS
Band5	10MHz	QPSK	20450	25RB#25	21.83	19.00	38.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	21.84	19.01	38.5	PASS
Band5	10MHz	QPSK	20525	1RB#0	22.53	19.70	38.5	PASS
Band5	10MHz	QPSK	20525	1RB#25	22.81	19.98	38.5	PASS
Band5	10MHz	QPSK	20525	1RB#49	22.54	19.71	38.5	PASS
Band5	10MHz	QPSK	20525	25RB#0	21.76	18.93	38.5	PASS
Band5	10MHz	QPSK	20525	25RB#13	21.69	18.86	38.5	PASS
Band5	10MHz	QPSK	20525	25RB#25	21.70	18.87	38.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	21.75	18.92	38.5	PASS
Band5	10MHz	QPSK	20600	1RB#0	22.50	19.67	38.5	PASS
Band5	10MHz	QPSK	20600	1RB#25	22.72	19.89	38.5	PASS
Band5	10MHz	QPSK	20600	1RB#49	22.73	19.90	38.5	PASS
Band5	10MHz	QPSK	20600	25RB#0	21.76	18.93	38.5	PASS
Band5	10MHz	QPSK	20600	25RB#13	21.69	18.86	38.5	PASS
Band5	10MHz	QPSK	20600	25RB#25	21.67	18.84	38.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	21.73	18.90	38.5	PASS



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## Field Strength of Spurious Radiation

### Test for spot check:

Test Band = LTE Band 5\_ TM1

Test Channel = Mid

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1664.18	69.23	-48.34	25.57	-48.80	-13.00	35.80	201	357	Horizontal
2	2496.27	53.46	-46.77	27.89	-60.68	-13.00	47.68	144	170	Horizontal
3	3328.36	54.79	-46.16	29.47	-57.16	-13.00	44.16	167	141	Horizontal
4	4160.45	42.26	-45.23	30.86	-67.37	-13.00	54.37	216	213	Horizontal
5	4992.54	39.66	-45.02	32.58	-68.04	-13.00	55.04	249	258	Horizontal
6	5824.63	40.17	-43.43	33.64	-64.88	-13.00	51.88	235	199	Horizontal

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1664.18	63.70	-48.34	25.57	-54.33	-13.00	41.33	157	72	Vertical
2	2496.27	48.34	-46.77	27.89	-65.80	-13.00	52.80	195	360	Vertical
3	3328.36	54.45	-46.16	29.47	-57.50	-13.00	44.50	263	279	Vertical
4	4160.45	43.23	-45.23	30.86	-66.40	-13.00	53.40	182	295	Vertical
5	4992.54	39.52	-45.02	32.58	-68.18	-13.00	55.18	221	203	Vertical
6	5824.63	39.95	-43.43	33.64	-65.10	-13.00	52.10	156	265	Vertical

Remark:

1) The field strength is calculated by adding the Antenna Factor, Cable Factor & AMP. The basic equation with a sample calculation is as follows:

AF = Antenna Factor(dB/m)

Factor = Cable Factor(dB) - Preamplifier (dB)

Level = Reading Level + AF + Factor -95.26

Margin = Limit – Level

---End of Attachment---



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