

Appendix B.12

LTE Band 71



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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
Band71	20MHz	QPSK	133222	1RB#0	22.85	17.55	34.77	PASS
Band71	20MHz	QPSK	133222	1RB#50	23.22	17.92	34.77	PASS
Band71	20MHz	QPSK	133222	1RB#99	22.69	17.39	34.77	PASS
Band71	20MHz	QPSK	133222	50RB#0	22.21	16.91	34.77	PASS
Band71	20MHz	QPSK	133222	50RB#25	22.30	17.00	34.77	PASS
Band71	20MHz	QPSK	133222	50RB#50	21.88	16.58	34.77	PASS
Band71	20MHz	QPSK	133222	100RB#0	22.01	16.71	34.77	PASS
Band71	20MHz	QPSK	133322	1RB#0	22.76	17.46	34.77	PASS
Band71	20MHz	QPSK	133322	1RB#50	23.11	17.81	34.77	PASS
Band71	20MHz	QPSK	133322	1RB#99	22.54	17.24	34.77	PASS
Band71	20MHz	QPSK	133322	50RB#0	22.09	16.79	34.77	PASS
Band71	20MHz	QPSK	133322	50RB#25	22.09	16.79	34.77	PASS
Band71	20MHz	QPSK	133322	50RB#50	21.79	16.49	34.77	PASS
Band71	20MHz	QPSK	133322	100RB#0	21.88	16.58	34.77	PASS
Band71	20MHz	QPSK	133372	1RB#0	22.88	17.58	34.77	PASS
Band71	20MHz	QPSK	133372	1RB#50	23.31	18.01	34.77	PASS
Band71	20MHz	QPSK	133372	1RB#99	22.67	17.37	34.77	PASS
Band71	20MHz	QPSK	133372	50RB#0	22.21	16.91	34.77	PASS
Band71	20MHz	QPSK	133372	50RB#25	22.26	16.96	34.77	PASS
Band71	20MHz	QPSK	133372	50RB#50	21.99	16.69	34.77	PASS
Band71	20MHz	QPSK	133372	100RB#0	22.04	16.74	34.77	PASS



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Field Strength of Spurious Radiation

Test for spot check:

Test Band = LTE Band 71_ 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	1348.18	51.95	-48.77	25.50	-66.58	-13.00	53.58	215	112	Horizontal
2	2022.27	49.91	-48.04	26.95	-66.44	-13.00	53.44	226	357	Horizontal
3	2696.36	44.50	-47.07	28.57	-69.26	-13.00	56.26	146	156	Horizontal
4	3370.45	42.03	-46.23	29.45	-70.01	-13.00	57.01	283	229	Horizontal
5	4044.54	40.08	-45.46	30.67	-69.97	-13.00	56.97	201	96	Horizontal
6	4718.63	41.16	-44.56	31.93	-66.74	-13.00	53.74	169	243	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	1348.18	52.09	-48.77	25.50	-66.44	-13.00	53.44	258	43	Vertical
2	2022.27	49.07	-48.04	26.95	-67.28	-13.00	54.28	167	279	Vertical
3	2696.36	43.75	-47.07	28.57	-70.01	-13.00	57.01	142	3	Vertical
4	3370.45	42.22	-46.23	29.45	-69.82	-13.00	56.82	196	43	Vertical
5	4044.54	40.20	-45.46	30.67	-69.85	-13.00	56.85	215	355	Vertical
6	4718.63	40.74	-44.56	31.93	-67.16	-13.00	54.16	169	133	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---

