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# Appendix B.4

## LTE Band 4



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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)	EIRP (dBm)	Limit (d'Bm)	Verdict
Band4	20MHz	QPSK	20050	1RB#0	22.64	23.51	30	PASS
Band4	20MHz	QPSK	20050	1RB#50	23.03	23.90	30	PASS
Band4	20MHz	QPSK	20050	1RB#99	22.73	23.60	30	PASS
Band4	20MHz	QPSK	20050	50RB#0	21.88	22.75	30	PASS
Band4	20MHz	QPSK	20050	50RB#25	21.92	22.79	30	PASS
Band4	20MHz	QPSK	20050	50RB#50	21.81	22.68	30	PASS
Band4	20MHz	QPSK	20050	100RB#0	21.76	22.63	30	PASS
Band4	20MHz	QPSK	20175	1RB#0	22.72	23.59	30	PASS
Band4	20MHz	QPSK	20175	1RB#50	22.89	23.76	30	PASS
Band4	20MHz	QPSK	20175	1RB#99	22.67	23.54	30	PASS
Band4	20MHz	QPSK	20175	50RB#0	21.97	22.84	30	PASS
Band4	20MHz	QPSK	20175	50RB#25	21.85	22.72	30	PASS
Band4	20MHz	QPSK	20175	50RB#50	21.81	22.68	30	PASS
Band4	20MHz	QPSK	20175	100RB#0	21.93	22.80	30	PASS
Band4	20MHz	QPSK	20300	1RB#0	22.89	23.76	30	PASS
Band4	20MHz	QPSK	20300	1RB#50	23.05	23.92	30	PASS
Band4	20MHz	QPSK	20300	1RB#99	22.79	23.66	30	PASS
Band4	20MHz	QPSK	20300	50RB#0	22.13	23.00	30	PASS
Band4	20MHz	QPSK	20300	50RB#25	22.09	22.96	30	PASS
Band4	20MHz	QPSK	20300	50RB#50	21.91	22.78	30	PASS
Band4	20MHz	QPSK	20300	100RB#0	22.02	22.89	30	PASS



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## Field Strength of Spurious Radiation

### Test for spot check:

Test Band = LTE Band 4\_ 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	3447	52.21	-45.82	29.42	-59.45	-13.00	46.45	154	148	Horizontal
2	5170.5	45.84	-44.19	32.60	-61.01	-13.00	48.01	265	17	Horizontal
3	6894.36	41.77	-42.44	35.99	-59.94	-13.00	46.94	231	249	Horizontal
4	8617.95	39.44	-39.74	38.18	-57.38	-13.00	44.38	195	133	Horizontal
5	10341.54	36.60	-36.68	38.88	-56.46	-13.00	43.46	214	249	Horizontal
6	12065.13	32.37	-35.25	38.67	-59.48	-13.00	46.48	152	280	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	3447	54.21	-45.82	29.42	-57.45	-13.00	44.45	237	245	Vertical
2	5170.77	42.68	-44.19	32.60	-64.17	-13.00	51.17	184	360	Vertical
3	6894.36	41.77	-42.44	35.99	-59.94	-13.00	46.94	196	245	Vertical
4	8617.95	38.79	-39.74	38.18	-58.03	-13.00	45.03	228	261	Vertical
5	10341.54	36.59	-36.68	38.88	-56.47	-13.00	43.47	168	47	Vertical
6	12065.13	32.63	-35.25	38.67	-59.22	-13.00	46.22	241	245	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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