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Appendix B.10

LTE Band 41



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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	Limit	Verdict
Band41	20MHz	QPSK	39750	1RB#0	22.56	24.27	33	PASS
Band41	20MHz	QPSK	39750	1RB#50	22.85	24.56	33	PASS
Band41	20MHz	QPSK	39750	1RB#99	22.62	24.33	33	PASS
Band41	20MHz	QPSK	39750	50RB#0	21.87	23.58	33	PASS
Band41	20MHz	QPSK	39750	50RB#25	21.95	23.66	33	PASS
Band41	20MHz	QPSK	39750	50RB#50	21.90	23.61	33	PASS
Band41	20MHz	QPSK	39750	100RB#0	21.87	23.58	33	PASS
Band41	20MHz	QPSK	40620	1RB#0	22.55	24.26	33	PASS
Band41	20MHz	QPSK	40620	1RB#50	23.09	24.80	33	PASS
Band41	20MHz	QPSK	40620	1RB#99	22.70	24.41	33	PASS
Band41	20MHz	QPSK	40620	50RB#0	22.10	23.81	33	PASS
Band41	20MHz	QPSK	40620	50RB#25	22.20	23.91	33	PASS
Band41	20MHz	QPSK	40620	50RB#50	22.04	23.75	33	PASS
Band41	20MHz	QPSK	40620	100RB#0	22.12	23.83	33	PASS
Band41	20MHz	QPSK	41490	1RB#0	22.00	23.71	33	PASS
Band41	20MHz	QPSK	41490	1RB#50	22.25	23.96	33	PASS
Band41	20MHz	QPSK	41490	1RB#99	22.20	23.91	33	PASS
Band41	20MHz	QPSK	41490	50RB#0	21.38	23.09	33	PASS
Band41	20MHz	QPSK	41490	50RB#25	21.30	23.01	33	PASS
Band41	20MHz	QPSK	41490	50RB#50	21.25	22.96	33	PASS
Band41	20MHz	QPSK	41490	100RB#0	21.31	23.02	33	PASS



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Field Strength of Spurious Radiation

Test for spot check:

Test Band = LTE Band 41_ 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	17861	33.23	-30.96	42.04	-50.95	-25.00	25.95	155	360	Horizontal
2	5168.18	47.77	-44.19	32.60	-59.08	-25.00	34.08	187	142	Horizontal
3	7752.27	40.43	-40.96	37.01	-58.78	-25.00	33.78	219	142	Horizontal
4	10336.36	44.41	-36.70	38.87	-48.68	-25.00	23.68	168	182	Horizontal
5	12920.45	33.38	-34.87	39.52	-57.23	-25.00	32.23	225	284	Horizontal
6	15504.54	32.10	-34.16	38.54	-58.77	-25.00	33.77	169	203	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	17041.5	33.96	-31.68	38.77	-54.21	-25.00	29.21	293	3	Vertical
2	5168.18	44.79	-44.19	32.60	-62.06	-25.00	37.06	264	272	Vertical
3	7752.27	40.47	-40.96	37.01	-58.74	-25.00	33.74	158	360	Vertical
4	10336.36	38.48	-36.70	38.87	-54.61	-25.00	29.61	224	166	Vertical
5	12920.45	32.61	-34.87	39.52	-58.00	-25.00	33.00	156	82	Vertical
6	15504.54	32.61	-34.16	38.54	-58.26	-25.00	33.26	284	125	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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