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Appendix B.4

LTE Band 5



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Effective (Isotropic) Radiated Power Output Data

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	EIRP(dBm)	Limit(dBm)	Verdict
Band5	1.4MHz	QPSK	20407	1RB#0	23.13	17.49	38.45	PASS
Band5	1.4MHz	QPSK	20407	1RB#2	23.21	17.57	38.45	PASS
Band5	1.4MHz	QPSK	20407	1RB#5	23.08	17.44	38.45	PASS
Band5	1.4MHz	QPSK	20407	6RB#0	22.13	16.49	38.45	PASS
Band5	1.4MHz	QPSK	20525	1RB#0	23.09	17.45	38.45	PASS
Band5	1.4MHz	QPSK	20525	1RB#2	23.05	17.41	38.45	PASS
Band5	1.4MHz	QPSK	20525	1RB#5	23.15	17.51	38.45	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	22.00	16.36	38.45	PASS
Band5	1.4MHz	QPSK	20643	1RB#0	23.16	17.52	38.45	PASS
Band5	1.4MHz	QPSK	20643	1RB#2	23.04	17.4	38.45	PASS
Band5	1.4MHz	QPSK	20643	1RB#5	22.96	17.32	38.45	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	22.19	16.55	38.45	PASS
Band5	1.4MHz	16QAM	20407	1RB#0	21.97	16.33	38.45	PASS
Band5	1.4MHz	16QAM	20407	1RB#2	21.94	16.3	38.45	PASS
Band5	1.4MHz	16QAM	20407	1RB#5	21.94	16.3	38.45	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	21.20	15.56	38.45	PASS
Band5	1.4MHz	16QAM	20525	1RB#0	21.98	16.34	38.45	PASS
Band5	1.4MHz	16QAM	20525	1RB#2	22.04	16.4	38.45	PASS
Band5	1.4MHz	16QAM	20525	1RB#5	21.96	16.32	38.45	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	21.10	15.46	38.45	PASS
Band5	1.4MHz	16QAM	20643	1RB#0	22.64	17	38.45	PASS
Band5	1.4MHz	16QAM	20643	1RB#2	21.99	16.35	38.45	PASS
Band5	1.4MHz	16QAM	20643	1RB#5	21.99	16.35	38.45	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	21.02	15.38	38.45	PASS
Band5	3MHz	QPSK	20415	1RB#0	22.97	17.33	38.45	PASS
Band5	3MHz	QPSK	20415	1RB#8	22.79	17.15	38.45	PASS
Band5	3MHz	QPSK	20415	1RB#14	22.94	17.3	38.45	PASS
Band5	3MHz	QPSK	20415	15RB#0	22.09	16.45	38.45	PASS



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Band5	3MHz	QPSK	20525	1RB#0	23.25	17.61	38.45	PASS
Band5	3MHz	QPSK	20525	1RB#8	22.92	17.28	38.45	PASS
Band5	3MHz	QPSK	20525	1RB#14	22.98	17.34	38.45	PASS
Band5	3MHz	QPSK	20525	15RB#0	22.06	16.42	38.45	PASS
Band5	3MHz	QPSK	20635	1RB#0	23.30	17.66	38.45	PASS
Band5	3MHz	QPSK	20635	1RB#8	23.00	17.36	38.45	PASS
Band5	3MHz	QPSK	20635	1RB#14	22.99	17.35	38.45	PASS
Band5	3MHz	QPSK	20635	15RB#0	22.21	16.57	38.45	PASS
Band5	3MHz	16QAM	20415	1RB#0	21.97	16.33	38.45	PASS
Band5	3MHz	16QAM	20415	1RB#8	21.81	16.17	38.45	PASS
Band5	3MHz	16QAM	20415	1RB#14	21.90	16.26	38.45	PASS
Band5	3MHz	16QAM	20415	15RB#0	21.20	15.56	38.45	PASS
Band5	3MHz	16QAM	20525	1RB#0	21.74	16.1	38.45	PASS
Band5	3MHz	16QAM	20525	1RB#8	21.79	16.15	38.45	PASS
Band5	3MHz	16QAM	20525	1RB#14	21.80	16.16	38.45	PASS
Band5	3MHz	16QAM	20525	15RB#0	21.07	15.43	38.45	PASS
Band5	3MHz	16QAM	20635	1RB#0	21.84	16.2	38.45	PASS
Band5	3MHz	16QAM	20635	1RB#8	21.90	16.26	38.45	PASS
Band5	3MHz	16QAM	20635	1RB#14	22.03	16.39	38.45	PASS
Band5	3MHz	16QAM	20635	15RB#0	21.14	15.5	38.45	PASS
Band5	5MHz	QPSK	20425	1RB#0	22.89	17.25	38.45	PASS
Band5	5MHz	QPSK	20425	1RB#12	23.33	17.69	38.45	PASS
Band5	5MHz	QPSK	20425	1RB#24	23.11	17.47	38.45	PASS
Band5	5MHz	QPSK	20425	25RB#0	22.06	16.42	38.45	PASS
Band5	5MHz	QPSK	20525	1RB#0	23.23	17.59	38.45	PASS
Band5	5MHz	QPSK	20525	1RB#12	22.90	17.26	38.45	PASS
Band5	5MHz	QPSK	20525	1RB#24	22.94	17.3	38.45	PASS
Band5	5MHz	QPSK	20525	25RB#0	22.09	16.45	38.45	PASS
Band5	5MHz	QPSK	20625	1RB#0	23.24	17.6	38.45	PASS
Band5	5MHz	QPSK	20625	1RB#12	22.95	17.31	38.45	PASS
Band5	5MHz	QPSK	20625	1RB#24	23.15	17.51	38.45	PASS
Band5	5MHz	QPSK	20625	25RB#0	22.02	16.38	38.45	PASS



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Band5	5MHz	16QAM	20425	1RB#12	21.90	16.26	38.45	PASS
Band5	5MHz	16QAM	20425	1RB#24	22.00	16.36	38.45	PASS
Band5	5MHz	16QAM	20425	25RB#0	21.06	15.42	38.45	PASS
Band5	5MHz	16QAM	20525	1RB#0	21.93	16.29	38.45	PASS
Band5	5MHz	16QAM	20525	1RB#12	21.99	16.35	38.45	PASS
Band5	5MHz	16QAM	20525	1RB#24	21.85	16.21	38.45	PASS
Band5	5MHz	16QAM	20525	25RB#0	21.17	15.53	38.45	PASS
Band5	5MHz	16QAM	20625	1RB#0	22.74	17.1	38.45	PASS
Band5	5MHz	16QAM	20625	1RB#12	21.93	16.29	38.45	PASS
Band5	5MHz	16QAM	20625	1RB#24	21.92	16.28	38.45	PASS
Band5	5MHz	16QAM	20625	25RB#0	21.11	15.47	38.45	PASS
Band5	10MHz	QPSK	20450	1RB#0	23.10	17.46	38.45	PASS
Band5	10MHz	QPSK	20450	1RB#24	23.22	17.58	38.45	PASS
Band5	10MHz	QPSK	20450	1RB#49	23.07	17.43	38.45	PASS
Band5	10MHz	QPSK	20450	50RB#0	22.09	16.45	38.45	PASS
Band5	10MHz	QPSK	20525	1RB#0	22.98	17.34	38.45	PASS
Band5	10MHz	QPSK	20525	1RB#24	22.96	17.32	38.45	PASS
Band5	10MHz	QPSK	20525	1RB#49	23.03	17.39	38.45	PASS
Band5	10MHz	QPSK	20525	50RB#0	22.17	16.53	38.45	PASS
Band5	10MHz	QPSK	20600	1RB#0	23.34	17.7	38.45	PASS
Band5	10MHz	QPSK	20600	1RB#24	23.43	17.79	38.45	PASS
Band5	10MHz	QPSK	20600	1RB#49	22.93	17.29	38.45	PASS
Band5	10MHz	QPSK	20600	50RB#0	22.27	16.63	38.45	PASS
Band5	10MHz	16QAM	20450	1RB#0	21.87	16.23	38.45	PASS
Band5	10MHz	16QAM	20450	1RB#24	21.90	16.26	38.45	PASS
Band5	10MHz	16QAM	20450	1RB#49	21.96	16.32	38.45	PASS
Band5	10MHz	16QAM	20450	50RB#0	20.98	15.34	38.45	PASS
Band5	10MHz	16QAM	20525	1RB#0	21.79	16.15	38.45	PASS
Band5	10MHz	16QAM	20525	1RB#24	21.94	16.3	38.45	PASS
Band5	10MHz	16QAM	20525	1RB#49	21.96	16.32	38.45	PASS
Band5	10MHz	16QAM	20525	50RB#0	21.15	15.51	38.45	PASS



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Band5	10MHz	16QAM	20600	1RB#24	22.09	16.45	38.45	PASS
Band5	10MHz	16QAM	20600	1RB#49	22.05	16.41	38.45	PASS
Band5	10MHz	16QAM	20600	50RB#0	21.35	15.71	38.45	PASS



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Field Strength of Spurious Radiation

Test Band = LTE Band5_ TM1

Test Channel = Low

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1649.1429	93.34	-48.22	25.37	-24.77	-13.00	11.77	216	144	Horizontal
2	2473.7143	83.33	-47.32	27.68	-31.56	-13.00	18.56	236	121	Horizontal
3	3298.3600	63.77	-46.68	29.56	-48.61	-13.00	35.61	251	144	Horizontal
4	4122.8571	65.60	-45.91	30.98	-44.59	-13.00	31.59	142	280	Horizontal
5	4947.4286	61.91	-45.69	32.73	-46.31	-13.00	33.31	155	147	Horizontal
6	5772.1300	51.58	-44.64	33.65	-54.67	-13.00	41.67	192	319	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	1649.1429	93.09	-48.22	25.37	-25.02	-13.00	12.02	215	51	Vertical
2	2473.7700	77.74	-47.32	27.69	-37.15	-13.00	24.15	145	226	Vertical
3	3298.3600	66.76	-46.68	29.56	-45.62	-13.00	32.62	236	79	Vertical
4	4122.9500	67.46	-45.91	30.99	-42.73	-13.00	29.73	251	267	Vertical
5	4947.4286	63.34	-45.69	32.73	-44.88	-13.00	31.88	136	267	Vertical
6	5772.1300	49.81	-44.64	33.65	-56.44	-13.00	43.44	261	118	Vertical



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Test Band = LTE Band5_ 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	1664.1800	92.79	-48.20	25.38	-25.30	-13.00	12.30	266	106	Horizontal
2	2496.2700	79.79	-47.28	27.76	-34.99	-13.00	21.99	142	147	Horizontal
3	3328.3600	66.64	-46.64	29.52	-45.74	-13.00	32.74	135	80	Horizontal
4	4160.4500	66.65	-45.94	31.04	-43.51	-13.00	30.51	251	23	Horizontal
5	4992.5400	62.56	-45.79	32.86	-45.63	-13.00	32.63	199	281	Horizontal
6	5824.6300	50.27	-44.74	33.80	-55.93	-13.00	42.93	140	104	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	93.31	-48.20	25.38	-24.78	-13.00	11.78	142	120	Vertical
2	2496.2700	79.49	-47.28	27.76	-35.29	-13.00	22.29	256	146	Vertical
3	3328.3600	66.38	-46.64	29.52	-46.00	-13.00	33.00	136	79	Vertical
4	4160.4500	67.52	-45.94	31.04	-42.64	-13.00	29.64	261	280	Vertical
5	4992.5400	63.88	-45.79	32.86	-44.31	-13.00	31.31	145	267	Vertical
6	5824.6300	50.38	-44.74	33.80	-55.82	-13.00	42.82	128	108	Vertical



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Test Band = LTE Band5_ TM1

Test Channel = High

Final Data List

NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1679.1800	91.63	-48.18	25.38	-26.43	-13.00	13.43	215	176	Horizontal
2	2518.7700	79.55	-47.21	27.83	-35.08	-13.00	22.08	235	279	Horizontal
3	3358.2857	64.62	-46.60	29.48	-47.76	-13.00	34.76	188	279	Horizontal
4	4197.7143	57.94	-45.96	31.10	-52.18	-13.00	39.18	146	283	Horizontal
5	5037.5400	59.59	-45.65	32.90	-48.42	-13.00	35.42	291	133	Horizontal
6	5887.1300	47.37	-44.93	33.92	-58.90	-13.00	45.90	147	0	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	1679.1800	91.74	-48.18	25.38	-26.32	-13.00	13.32	216	134	Vertical
2	2518.7700	78.01	-47.21	27.83	-36.62	-13.00	23.62	236	227	Vertical
3	3358.3600	67.95	-46.60	29.48	-44.43	-13.00	31.43	185	81	Vertical
4	4197.7143	59.66	-45.96	31.10	-50.46	-13.00	37.46	236	279	Vertical
5	5037.5400	57.28	-45.65	32.90	-50.73	-13.00	37.73	236	294	Vertical
6	5887.1300	48.06	-44.93	33.92	-58.21	-13.00	45.21	291	336	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) - Preamp (dB)

Level = Reading Level + AF + Factor -95.26

Margin = Limit – Level

---End of Attachment---



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