

Appendix B.13

LTE Band 30



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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
Band30	5MHz	QPSK	27685	1RB#0	22.13	16.43	23.98	PASS
Band30	5MHz	QPSK	27685	1RB#12	22.16	16.46	23.98	PASS
Band30	5MHz	QPSK	27685	1RB#24	22.22	16.52	23.98	PASS
Band30	5MHz	QPSK	27685	25RB#0	21.23	15.53	23.98	PASS
Band30	5MHz	QPSK	27710	1RB#0	22.15	16.45	23.98	PASS
Band30	5MHz	QPSK	27710	1RB#12	22.11	16.41	23.98	PASS
Band30	5MHz	QPSK	27710	1RB#24	22.11	16.41	23.98	PASS
Band30	5MHz	QPSK	27710	25RB#0	21.24	15.54	23.98	PASS
Band30	5MHz	QPSK	27735	1RB#0	22.02	16.32	23.98	PASS
Band30	5MHz	QPSK	27735	1RB#12	22.00	16.3	23.98	PASS
Band30	5MHz	QPSK	27735	1RB#24	21.99	16.29	23.98	PASS
Band30	5MHz	QPSK	27735	25RB#0	21.09	15.39	23.98	PASS
Band30	5MHz	16QAM	27685	1RB#0	21.32	15.62	23.98	PASS
Band30	5MHz	16QAM	27685	1RB#12	21.35	15.65	23.98	PASS
Band30	5MHz	16QAM	27685	1RB#24	21.52	15.82	23.98	PASS
Band30	5MHz	16QAM	27685	25RB#0	20.23	14.53	23.98	PASS
Band30	5MHz	16QAM	27710	1RB#0	21.29	15.59	23.98	PASS
Band30	5MHz	16QAM	27710	1RB#12	21.38	15.68	23.98	PASS
Band30	5MHz	16QAM	27710	1RB#24	21.30	15.6	23.98	PASS
Band30	5MHz	16QAM	27710	25RB#0	20.21	14.51	23.98	PASS
Band30	5MHz	16QAM	27735	1RB#0	21.29	15.59	23.98	PASS
Band30	5MHz	16QAM	27735	1RB#12	21.19	15.49	23.98	PASS
Band30	5MHz	16QAM	27735	1RB#24	21.16	15.46	23.98	PASS
Band30	5MHz	16QAM	27735	25RB#0	20.02	14.32	23.98	PASS
Band30	10MHz	QPSK	27710	1RB#0	21.94	16.24	23.98	PASS



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Band30	10MHz	QPSK	27710	1RB#24	22.00	16.3	23.98	PASS
Band30	10MHz	QPSK	27710	1RB#49	21.96	16.26	23.98	PASS
Band30	10MHz	QPSK	27710	50RB#0	20.14	14.44	23.98	PASS
Band30	10MHz	16QAM	27710	1RB#0	21.15	15.45	23.98	PASS
Band30	10MHz	16QAM	27710	1RB#24	21.20	15.5	23.98	PASS
Band30	10MHz	16QAM	27710	1RB#49	21.25	15.55	23.98	PASS
Band30	10MHz	16QAM	27710	50RB#0	20.06	14.36	23.98	PASS



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Field Strength of Spurious Radiation

Test Band = B30_TM1

Test Channel = 10M 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	4611.1800	42.27	-45.66	30.55	-68.11	-40.00	28.11	158	222	Horizontal
2	6916.7700	41.11	-44.01	35.05	-63.10	-40.00	23.10	269	60	Horizontal
3	9222.3600	36.42	-40.24	36.72	-62.36	-40.00	22.36	132	61	Horizontal
4	11527.9500	33.47	-37.19	38.75	-60.23	-40.00	20.23	225	317	Horizontal
5	13833.5400	35.00	-36.08	40.60	-55.74	-40.00	15.74	145	345	Horizontal
6	16139.1300	34.63	-34.58	39.63	-55.58	-40.00	15.58	124	316	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	4611.1800	42.18	-45.66	30.55	-68.20	-40.00	28.20	112	3	Vertical
2	6916.7700	40.79	-44.01	35.05	-63.42	-40.00	23.42	158	360	Vertical
3	9222.3600	36.94	-40.24	36.72	-61.84	-40.00	21.84	269	118	Vertical
4	11527.9500	33.43	-37.19	38.75	-60.27	-40.00	20.27	236	356	Vertical
5	13833.5400	34.37	-36.08	40.60	-56.37	-40.00	16.37	162	90	Vertical
6	16139.1300	34.83	-34.58	39.63	-55.38	-40.00	15.38	154	59	Vertical



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Test Band = B30_TM1
Test Channel = 5M 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	4610.6800	43.98	-45.66	30.54	-66.40	-40.00	26.40	112	46	Horizontal
2	6916.0200	41.03	-44.01	35.05	-63.19	-40.00	23.19	187	91	Horizontal
3	9221.3600	35.62	-40.24	36.72	-63.16	-40.00	23.16	156	357	Horizontal
4	11526.7000	32.88	-37.20	38.75	-60.83	-40.00	20.83	236	269	Horizontal
5	13832.0400	34.87	-36.09	40.60	-55.89	-40.00	15.89	247	60	Horizontal
6	16137.3800	34.69	-34.58	39.63	-55.52	-40.00	15.52	145	1	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	4610.6800	43.60	-45.66	30.54	-66.78	-40.00	26.78	152	237	Vertical
2	6916.0200	40.70	-44.01	35.05	-63.52	-40.00	23.52	165	272	Vertical
3	9221.3600	35.63	-40.24	36.72	-63.15	-40.00	23.15	223	342	Vertical
4	11526.7000	32.69	-37.20	38.75	-61.02	-40.00	21.02	269	43	Vertical
5	13832.0400	33.53	-36.09	40.60	-57.23	-40.00	17.23	154	272	Vertical
6	16137.3800	34.20	-34.58	39.63	-56.01	-40.00	16.01	258	253	Vertical



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Test Band = B30_TM1
Test Channel = 5M 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	4615.6800	42.61	-45.66	30.56	-67.75	-40.00	27.75	187	46	Horizontal
2	6923.5200	41.47	-43.97	35.06	-62.69	-40.00	22.69	154	358	Horizontal
3	9231.3600	35.40	-40.24	36.74	-63.36	-40.00	23.36	269	42	Horizontal
4	11539.2000	32.73	-37.15	38.75	-60.92	-40.00	20.92	132	136	Horizontal
5	13847.0400	36.11	-35.95	40.63	-54.48	-40.00	14.48	145	121	Horizontal
6	16154.8800	34.72	-34.60	39.68	-55.45	-40.00	15.45	121	299	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	4615.6800	42.74	-45.66	30.56	-67.62	-40.00	27.62	152	360	Vertical
2	6923.5200	40.35	-43.97	35.06	-63.81	-40.00	23.81	147	283	Vertical
3	9231.3600	35.84	-40.24	36.74	-62.92	-40.00	22.92	269	300	Vertical
4	11539.2000	32.59	-37.15	38.75	-61.06	-40.00	21.06	132	61	Vertical
5	13847.0400	33.84	-35.95	40.63	-56.75	-40.00	16.75	283	255	Vertical
6	16154.8800	34.35	-34.60	39.68	-55.82	-40.00	15.82	112	226	Vertical



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Test Band = B30_TM1
Test Channel = 5M 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	4620.6800	44.96	-45.66	30.57	-65.39	-40.00	25.39	165	30	Horizontal
2	6931.0200	40.96	-43.93	35.08	-63.15	-40.00	23.15	169	120	Horizontal
3	9241.3600	35.75	-40.24	36.76	-62.99	-40.00	22.99	232	272	Horizontal
4	11551.7000	32.75	-37.10	38.76	-60.85	-40.00	20.85	132	330	Horizontal
5	13862.0400	34.10	-35.81	40.65	-56.32	-40.00	16.32	165	135	Horizontal
6	16172.3800	34.38	-34.61	39.74	-55.76	-40.00	15.76	258	268	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	4620.6800	43.36	-45.66	30.57	-66.99	-40.00	26.99	157	300	Vertical
2	6931.0200	41.03	-43.93	35.08	-63.08	-40.00	23.08	166	353	Vertical
3	9241.3600	36.30	-40.24	36.76	-62.44	-40.00	22.44	132	360	Vertical
4	11551.7000	32.89	-37.10	38.76	-60.71	-40.00	20.71	232	331	Vertical
5	13862.0400	33.65	-35.81	40.65	-56.77	-40.00	16.77	258	255	Vertical
6	16172.3800	34.58	-34.61	39.74	-55.56	-40.00	15.56	169	347	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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