

Appendix B.13

LTE Band 30



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	20.96	23.77	23.98	PASS
Band30	5MHz	QPSK	27685	1RB#12	20.98	23.79	23.98	PASS
Band30	5MHz	QPSK	27685	1RB#24	20.97	23.78	23.98	PASS
Band30	5MHz	QPSK	27685	25RB#0	19.92	22.73	23.98	PASS
Band30	5MHz	QPSK	27710	1RB#0	20.94	23.75	23.98	PASS
Band30	5MHz	QPSK	27710	1RB#12	20.98	23.79	23.98	PASS
Band30	5MHz	QPSK	27710	1RB#24	20.93	23.74	23.98	PASS
Band30	5MHz	QPSK	27710	25RB#0	19.97	22.78	23.98	PASS
Band30	5MHz	QPSK	27735	1RB#0	20.95	23.76	23.98	PASS
Band30	5MHz	QPSK	27735	1RB#12	20.98	23.79	23.98	PASS
Band30	5MHz	QPSK	27735	1RB#24	20.91	23.72	23.98	PASS
Band30	5MHz	QPSK	27735	25RB#0	19.95	22.76	23.98	PASS
Band30	5MHz	16QAM	27685	1RB#0	20.31	23.12	23.98	PASS
Band30	5MHz	16QAM	27685	1RB#12	20.51	23.32	23.98	PASS
Band30	5MHz	16QAM	27685	1RB#24	19.98	22.79	23.98	PASS
Band30	5MHz	16QAM	27685	25RB#0	20.95	23.76	23.98	PASS
Band30	5MHz	16QAM	27710	1RB#0	20	22.81	23.98	PASS
Band30	5MHz	16QAM	27710	1RB#12	20.08	22.89	23.98	PASS
Band30	5MHz	16QAM	27710	1RB#24	20.04	22.85	23.98	PASS
Band30	5MHz	16QAM	27710	25RB#0	21	23.81	23.98	PASS
Band30	5MHz	16QAM	27735	1RB#0	20.01	22.82	23.98	PASS
Band30	5MHz	16QAM	27735	1RB#12	20.07	22.88	23.98	PASS
Band30	5MHz	16QAM	27735	1RB#24	20.07	22.88	23.98	PASS
Band30	5MHz	16QAM	27735	25RB#0	18.94	21.75	23.98	PASS
Band30	5MHz	64QAM	27685	1RB#0	19.13	21.94	23.98	PASS
Band30	5MHz	64QAM	27685	1RB#12	19.12	21.93	23.98	PASS



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 中国·苏州·中国(江苏)自由贸易试验区苏州片区苏州工业园区润胜路1号的6号厂房南楼 邮编: 215000

t (86-512) 62992980 www.sgs.com.cn
 t (86-512) 62992980 sgs.china@sgs.com



Band30	5MHz	64QAM	27685	1RB#24	19.09	21.9	23.98	PASS
Band30	5MHz	64QAM	27685	25RB#0	17.9	20.71	23.98	PASS
Band30	5MHz	64QAM	27710	1RB#0	19.14	21.95	23.98	PASS
Band30	5MHz	64QAM	27710	1RB#12	19.15	21.96	23.98	PASS
Band30	5MHz	64QAM	27710	1RB#24	19	21.81	23.98	PASS
Band30	5MHz	64QAM	27710	25RB#0	17.93	20.74	23.98	PASS
Band30	5MHz	64QAM	27735	1RB#0	19.1	21.91	23.98	PASS
Band30	5MHz	64QAM	27735	1RB#12	19.13	21.94	23.98	PASS
Band30	5MHz	64QAM	27735	1RB#24	19.11	21.92	23.98	PASS
Band30	5MHz	64QAM	27735	25RB#0	17.87	20.68	23.98	PASS
Band30	5MHz	256QAM	27685	1RB#0	17.39	20.2	23.98	PASS
Band30	5MHz	256QAM	27685	1RB#12	17.49	20.3	23.98	PASS
Band30	5MHz	256QAM	27685	1RB#24	17.13	19.94	23.98	PASS
Band30	5MHz	256QAM	27685	25RB#0	16.02	18.83	23.98	PASS
Band30	5MHz	256QAM	27710	1RB#0	17.06	19.87	23.98	PASS
Band30	5MHz	256QAM	27710	1RB#12	16.83	19.64	23.98	PASS
Band30	5MHz	256QAM	27710	1RB#24	16.95	19.76	23.98	PASS
Band30	5MHz	256QAM	27710	25RB#0	15.75	18.56	23.98	PASS
Band30	5MHz	256QAM	27735	1RB#0	17.05	19.86	23.98	PASS
Band30	5MHz	256QAM	27735	1RB#12	17.02	19.83	23.98	PASS
Band30	5MHz	256QAM	27735	1RB#24	16.83	19.64	23.98	PASS
Band30	5MHz	256QAM	27735	25RB#0	15.82	18.63	23.98	PASS
Band30	10MHz	QPSK	27710	1RB#0	20.93	23.74	23.98	PASS
Band30	10MHz	QPSK	27710	1RB#24	20.94	23.75	23.98	PASS
Band30	10MHz	QPSK	27710	1RB#49	20.89	23.7	23.98	PASS
Band30	10MHz	QPSK	27710	50RB#0	19.99	22.8	23.98	PASS
Band30	10MHz	16QAM	27710	1RB#0	20.93	23.74	23.98	PASS
Band30	10MHz	16QAM	27710	1RB#24	20.08	22.89	23.98	PASS
Band30	10MHz	16QAM	27710	1RB#49	20.07	22.88	23.98	PASS
Band30	10MHz	16QAM	27710	50RB#0	19.03	21.84	23.98	PASS
Band30	10MHz	64QAM	27710	1RB#0	19.12	21.93	23.98	PASS
Band30	10MHz	64QAM	27710	1RB#24	19.14	21.95	23.98	PASS
Band30	10MHz	64QAM	27710	1RB#49	19.07	21.88	23.98	PASS



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 中国·苏州·中国(江苏)自由贸易试验区苏州片区苏州工业园区润胜路1号的6号厂房南楼 邮编: 215000

t (86-512) 62992980 www.sgs.com.cn
 t (86-512) 62992980 sgs.china@sgs.com



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Band30	10MHz	64QAM	27710	50RB#0	17.99	20.8	23.98	PASS
Band30	10MHz	256QAM	27710	1RB#0	17.48	20.29	23.98	PASS
Band30	10MHz	256QAM	27710	1RB#24	17.15	19.96	23.98	PASS
Band30	10MHz	256QAM	27710	1RB#49	17.05	19.86	23.98	PASS
Band30	10MHz	256QAM	27710	50RB#0	16.82	19.63	23.98	PASS



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Field Strength of Spurious Radiation

Test Band = LTE Band30_10M_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	4611.1800	60.70	-45.66	31.75	-48.48	-40.00	8.48	125	77	Horizontal
2	6916.7700	37.91	-44.01	35.98	-65.37	-40.00	25.37	145	0	Horizontal
3	9222.3600	29.04	-40.24	38.36	-68.11	-40.00	28.11	136	240	Horizontal
4	11527.9500	27.85	-37.19	38.97	-65.64	-40.00	25.64	256	0	Horizontal
5	13833.5400	30.63	-36.08	39.99	-60.72	-40.00	20.72	129	1	Horizontal
6	16139.1300	32.65	-34.58	37.69	-59.50	-40.00	19.50	188	164	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	61.76	-45.66	31.74	-47.42	-40.00	7.42	145	60	Vertical
2	6916.7700	37.81	-44.01	35.98	-65.47	-40.00	25.47	125	344	Vertical
3	9222.3600	28.30	-40.24	38.36	-68.85	-40.00	28.85	199	300	Vertical
4	11527.9500	27.75	-37.19	38.97	-65.74	-40.00	25.74	142	331	Vertical
5	13833.5400	29.81	-36.08	39.99	-61.54	-40.00	21.54	133	148	Vertical
6	16139.1300	33.25	-34.58	37.69	-58.90	-40.00	18.90	256	194	Vertical



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Test Band = LTE Band30_5M_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	4610.6800	57.96	-45.66	31.74	-51.22	-40.00	11.22	145	135	Horizontal
2	6916.0200	38.05	-44.01	35.98	-65.24	-40.00	25.24	125	316	Horizontal
3	9221.3600	29.21	-40.24	38.36	-67.94	-40.00	27.94	248	212	Horizontal
4	11526.7000	28.48	-37.20	38.97	-65.01	-40.00	25.01	196	316	Horizontal
5	13832.0400	30.10	-36.09	39.99	-61.26	-40.00	21.26	135	150	Horizontal
6	16137.3800	32.97	-34.58	37.69	-59.17	-40.00	19.17	172	332	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	60.22	-45.66	31.74	-48.96	-40.00	8.96	154	60	Vertical
2	6916.0200	37.78	-44.01	35.98	-65.51	-40.00	25.51	122	0	Vertical
3	9221.3600	29.49	-40.24	38.36	-67.66	-40.00	27.66	159	300	Vertical
4	11526.7000	27.95	-37.20	38.97	-65.54	-40.00	25.54	175	47	Vertical
5	13832.0400	30.08	-36.09	39.99	-61.28	-40.00	21.28	145	151	Vertical
6	16137.3800	33.65	-34.58	37.69	-58.49	-40.00	18.49	168	227	Vertical



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Test Band = LTE Band30_5M_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	4615.6800	57.87	-45.66	31.76	-51.29	-40.00	11.29	148	91	Horizontal
2	6923.5200	37.09	-43.97	35.99	-66.15	-40.00	26.15	159	0	Horizontal
3	9231.3600	28.84	-40.24	38.36	-68.30	-40.00	28.30	126	0	Horizontal
4	11539.2000	27.71	-37.15	38.96	-65.74	-40.00	25.74	133	356	Horizontal
5	13847.0400	29.74	-35.95	40.00	-61.47	-40.00	21.47	177	31	Horizontal
6	16154.8800	33.33	-34.60	37.67	-58.85	-40.00	18.85	185	286	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	60.56	-45.66	31.76	-48.60	-40.00	8.60	214	77	Vertical
2	6923.5200	37.83	-43.97	35.99	-65.41	-40.00	25.41	152	77	Vertical
3	9231.3600	28.80	-40.24	38.36	-68.34	-40.00	28.34	135	136	Vertical
4	11539.2000	27.65	-37.15	38.96	-65.80	-40.00	25.80	140	91	Vertical
5	13847.0400	29.66	-35.95	40.00	-61.55	-40.00	21.55	198	346	Vertical
6	16154.8800	33.12	-34.60	37.67	-59.06	-40.00	19.06	133	31	Vertical



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Test Band = LTE Band30_5M_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	4620.6800	60.43	-45.66	31.77	-48.71	-40.00	8.71	174	73	Horizontal
2	6931.0200	38.12	-43.93	36.00	-65.07	-40.00	25.07	159	210	Horizontal
3	9241.3200	28.53	-40.24	38.37	-68.60	-40.00	28.60	214	1	Horizontal
4	11551.7000	27.69	-37.10	38.94	-65.72	-40.00	25.72	178	272	Horizontal
5	13862.0400	30.20	-35.81	40.02	-60.85	-40.00	20.85	193	227	Horizontal
6	16172.3800	32.94	-34.61	37.65	-59.28	-40.00	19.28	253	301	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	61.96	-45.66	31.77	-47.18	-40.00	7.18	124	59	Vertical
2	6931.0200	37.83	-43.93	36.00	-65.36	-40.00	25.36	187	7	Vertical
3	9241.3200	29.34	-40.24	38.37	-67.79	-40.00	27.79	199	0	Vertical
4	11551.7000	27.69	-37.10	38.94	-65.72	-40.00	25.72	142	1	Vertical
5	13862.0400	29.71	-35.81	40.02	-61.34	-40.00	21.34	254	357	Vertical
6	16172.3800	33.12	-34.61	37.65	-59.10	-40.00	19.10	286	3	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) - Pre-amplifier (dB)

Level = Reading Level + AF + Factor -95.26

Margin = Limit – Level

---End of Attachment---



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