

Report No.: SEWM2211000245RG01

Rev.: 01

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Appendix B.2

LTE Band 2



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

Effective (Isotropic) Radiated Power Output Data

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	EIRP (dBm)	Limit (dBm)	Verdict
Band2	1.4MHz	QPSK	18607	1RB#0	21.3	24.3	33	PASS
Band2	1.4MHz	QPSK	18607	1RB#2	21.26	24.26	33	PASS
Band2	1.4MHz	QPSK	18607	1RB#5	21.13	24.13	33	PASS
Band2	1.4MHz	QPSK	18607	6RB#0	20.2	23.2	33	PASS
Band2	1.4MHz	QPSK	18900	1RB#0	21.04	24.04	33	PASS
Band2	1.4MHz	QPSK	18900	1RB#2	21.11	24.11	33	PASS
Band2	1.4MHz	QPSK	18900	1RB#5	21.12	24.12	33	PASS
Band2	1.4MHz	QPSK	18900	6RB#0	20.07	23.07	33	PASS
Band2	1.4MHz	QPSK	19193	1RB#0	22.12	25.12	33	PASS
Band2	1.4MHz	QPSK	19193	1RB#2	21.89	24.89	33	PASS
Band2	1.4MHz	QPSK	19193	1RB#5	21.4	24.4	33	PASS
Band2	1.4MHz	QPSK	19193	6RB#0	20.57	23.57	33	PASS
Band2	1.4MHz	16QAM	18607	1RB#0	19.98	22.98	33	PASS
Band2	1.4MHz	16QAM	18607	1RB#2	20.07	23.07	33	PASS
Band2	1.4MHz	16QAM	18607	1RB#5	20	23	33	PASS
Band2	1.4MHz	16QAM	18607	6RB#0	19.28	22.28	33	PASS
Band2	1.4MHz	16QAM	18900	1RB#0	20.18	23.18	33	PASS
Band2	1.4MHz	16QAM	18900	1RB#2	19.85	22.85	33	PASS
Band2	1.4MHz	16QAM	18900	1RB#5	19.97	22.97	33	PASS
Band2	1.4MHz	16QAM	18900	6RB#0	19.15	22.15	33	PASS
Band2	1.4MHz	16QAM	19193	1RB#0	20.48	23.48	33	PASS
Band2	1.4MHz	16QAM	19193	1RB#2	20.35	23.35	33	PASS
Band2	1.4MHz	16QAM	19193	1RB#5	20.47	23.47	33	PASS
Band2	1.4MHz	16QAM	19193	6RB#0	19.71	22.71	33	PASS
Band2	3MHz	QPSK	18615	1RB#0	21.16	24.16	33	PASS
Band2	3MHz	QPSK	18615	1RB#8	21.12	24.12	33	PASS
Band2	3MHz	QPSK	18615	1RB#14	21.11	24.11	33	PASS



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SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.
Wireless Laboratory

South of No. 6 Plant, No. 1, Runsheng Road, Suzhou Industrial Park, Suzhou Area, China (Jiangsu) Pilot Free Trade Zone 215000
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

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

Band2	3MHz	QPSK	18615	15RB#0	20.18	23.18	33	PASS
Band2	3MHz	QPSK	18900	1RB#0	21.24	24.24	33	PASS
Band2	3MHz	QPSK	18900	1RB#8	20.91	23.91	33	PASS
Band2	3MHz	QPSK	18900	1RB#14	21.12	24.12	33	PASS
Band2	3MHz	QPSK	18900	15RB#0	20.13	23.13	33	PASS
Band2	3MHz	QPSK	19185	1RB#0	21.7	24.7	33	PASS
Band2	3MHz	QPSK	19185	1RB#8	21.55	24.55	33	PASS
Band2	3MHz	QPSK	19185	1RB#14	21.65	24.65	33	PASS
Band2	3MHz	QPSK	19185	15RB#0	20.73	23.73	33	PASS
Band2	3MHz	16QAM	18615	1RB#0	20	23	33	PASS
Band2	3MHz	16QAM	18615	1RB#8	19.83	22.83	33	PASS
Band2	3MHz	16QAM	18615	1RB#14	20.06	23.06	33	PASS
Band2	3MHz	16QAM	18615	15RB#0	19.24	22.24	33	PASS
Band2	3MHz	16QAM	18900	1RB#0	19.86	22.86	33	PASS
Band2	3MHz	16QAM	18900	1RB#8	19.85	22.85	33	PASS
Band2	3MHz	16QAM	18900	1RB#14	20.04	23.04	33	PASS
Band2	3MHz	16QAM	18900	15RB#0	19.16	22.16	33	PASS
Band2	3MHz	16QAM	19185	1RB#0	20.33	23.33	33	PASS
Band2	3MHz	16QAM	19185	1RB#8	20.36	23.36	33	PASS
Band2	3MHz	16QAM	19185	1RB#14	20.4	23.4	33	PASS
Band2	3MHz	16QAM	19185	15RB#0	19.74	22.74	33	PASS
Band2	5MHz	QPSK	18625	1RB#0	21.21	24.21	33	PASS
Band2	5MHz	QPSK	18625	1RB#12	21.1	24.1	33	PASS
Band2	5MHz	QPSK	18625	1RB#24	21.96	24.96	33	PASS
Band2	5MHz	QPSK	18625	25RB#0	20.85	23.85	33	PASS
Band2	5MHz	QPSK	18900	1RB#0	21.92	24.92	33	PASS
Band2	5MHz	QPSK	18900	1RB#12	22.23	25.23	33	PASS
Band2	5MHz	QPSK	18900	1RB#24	21.95	24.95	33	PASS
Band2	5MHz	QPSK	18900	25RB#0	20.92	23.92	33	PASS
Band2	5MHz	QPSK	19175	1RB#0	21.8	24.8	33	PASS
Band2	5MHz	QPSK	19175	1RB#12	21.81	24.81	33	PASS
Band2	5MHz	QPSK	19175	1RB#24	21.79	24.79	33	PASS



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Band2	5MHz	QPSK	19175	25RB#0	20.83	23.83	33	PASS
Band2	5MHz	16QAM	18625	1RB#0	19.8	22.8	33	PASS
Band2	5MHz	16QAM	18625	1RB#12	20.06	23.06	33	PASS
Band2	5MHz	16QAM	18625	1RB#24	20.65	23.65	33	PASS
Band2	5MHz	16QAM	18625	25RB#0	19.97	22.97	33	PASS
Band2	5MHz	16QAM	18900	1RB#0	20.86	23.86	33	PASS
Band2	5MHz	16QAM	18900	1RB#12	21.38	24.38	33	PASS
Band2	5MHz	16QAM	18900	1RB#24	20.7	23.7	33	PASS
Band2	5MHz	16QAM	18900	25RB#0	20.02	23.02	33	PASS
Band2	5MHz	16QAM	19175	1RB#0	20.48	23.48	33	PASS
Band2	5MHz	16QAM	19175	1RB#12	20.53	23.53	33	PASS
Band2	5MHz	16QAM	19175	1RB#24	20.58	23.58	33	PASS
Band2	5MHz	16QAM	19175	25RB#0	19.87	22.87	33	PASS
Band2	10MHz	QPSK	18650	1RB#0	22.17	25.17	33	PASS
Band2	10MHz	QPSK	18650	1RB#24	22.29	25.29	33	PASS
Band2	10MHz	QPSK	18650	1RB#49	22.04	25.04	33	PASS
Band2	10MHz	QPSK	18650	50RB#0	20.97	23.97	33	PASS
Band2	10MHz	QPSK	18900	1RB#0	22.12	25.12	33	PASS
Band2	10MHz	QPSK	18900	1RB#24	22.07	25.07	33	PASS
Band2	10MHz	QPSK	18900	1RB#49	21.84	24.84	33	PASS
Band2	10MHz	QPSK	18900	50RB#0	21.03	24.03	33	PASS
Band2	10MHz	QPSK	19150	1RB#0	21.88	24.88	33	PASS
Band2	10MHz	QPSK	19150	1RB#24	22.12	25.12	33	PASS
Band2	10MHz	QPSK	19150	1RB#49	21.58	24.58	33	PASS
Band2	10MHz	QPSK	19150	50RB#0	20.83	23.83	33	PASS
Band2	10MHz	16QAM	18650	1RB#0	20.68	23.68	33	PASS
Band2	10MHz	16QAM	18650	1RB#24	20.75	23.75	33	PASS
Band2	10MHz	16QAM	18650	1RB#49	20.64	23.64	33	PASS
Band2	10MHz	16QAM	18650	50RB#0	20.05	23.05	33	PASS
Band2	10MHz	16QAM	18900	1RB#0	20.93	23.93	33	PASS
Band2	10MHz	16QAM	18900	1RB#24	20.79	23.79	33	PASS
Band2	10MHz	16QAM	18900	1RB#49	20.77	23.77	33	PASS



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Band2	10MHz	16QAM	18900	50RB#0	20.05	23.05	33	PASS
Band2	10MHz	16QAM	19150	1RB#0	20.54	23.54	33	PASS
Band2	10MHz	16QAM	19150	1RB#24	20.69	23.69	33	PASS
Band2	10MHz	16QAM	19150	1RB#49	20.65	23.65	33	PASS
Band2	10MHz	16QAM	19150	50RB#0	19.83	22.83	33	PASS
Band2	15MHz	QPSK	18675	1RB#0	21.56	24.56	33	PASS
Band2	15MHz	QPSK	18675	1RB#38	21.83	24.83	33	PASS
Band2	15MHz	QPSK	18675	1RB#74	21.86	24.86	33	PASS
Band2	15MHz	QPSK	18675	75RB#0	20.8	23.8	33	PASS
Band2	15MHz	QPSK	18900	1RB#0	22.04	25.04	33	PASS
Band2	15MHz	QPSK	18900	1RB#38	22	25	33	PASS
Band2	15MHz	QPSK	18900	1RB#74	21.74	24.74	33	PASS
Band2	15MHz	QPSK	18900	75RB#0	21	24	33	PASS
Band2	15MHz	QPSK	19125	1RB#0	21.71	24.71	33	PASS
Band2	15MHz	QPSK	19125	1RB#38	21.78	24.78	33	PASS
Band2	15MHz	QPSK	19125	1RB#74	21.72	24.72	33	PASS
Band2	15MHz	QPSK	19125	75RB#0	20.66	23.66	33	PASS
Band2	15MHz	16QAM	18675	1RB#0	20.71	23.71	33	PASS
Band2	15MHz	16QAM	18675	1RB#38	20.55	23.55	33	PASS
Band2	15MHz	16QAM	18675	1RB#74	20.56	23.56	33	PASS
Band2	15MHz	16QAM	18675	75RB#0	20	23	33	PASS
Band2	15MHz	16QAM	18900	1RB#0	20.79	23.79	33	PASS
Band2	15MHz	16QAM	18900	1RB#38	20.67	23.67	33	PASS
Band2	15MHz	16QAM	18900	1RB#74	20.56	23.56	33	PASS
Band2	15MHz	16QAM	18900	75RB#0	20.09	23.09	33	PASS
Band2	15MHz	16QAM	19125	1RB#0	20.54	23.54	33	PASS
Band2	15MHz	16QAM	19125	1RB#38	20.59	23.59	33	PASS
Band2	15MHz	16QAM	19125	1RB#74	20.48	23.48	33	PASS
Band2	15MHz	16QAM	19125	75RB#0	19.84	22.84	33	PASS
Band2	20MHz	QPSK	18700	1RB#0	22.01	25.01	33	PASS
Band2	20MHz	QPSK	18700	1RB#49	22.16	25.16	33	PASS
Band2	20MHz	QPSK	18700	1RB#99	21.76	24.76	33	PASS



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Band2	20MHz	QPSK	18700	100RB#0	20.81	23.81	33	PASS
Band2	20MHz	QPSK	18900	1RB#0	21.84	24.84	33	PASS
Band2	20MHz	QPSK	18900	1RB#49	22.22	25.22	33	PASS
Band2	20MHz	QPSK	18900	1RB#99	21.75	24.75	33	PASS
Band2	20MHz	QPSK	18900	100RB#0	21.05	24.05	33	PASS
Band2	20MHz	QPSK	19100	1RB#0	22.02	25.02	33	PASS
Band2	20MHz	QPSK	19100	1RB#49	22.03	25.03	33	PASS
Band2	20MHz	QPSK	19100	1RB#99	21.61	24.61	33	PASS
Band2	20MHz	QPSK	19100	100RB#0	20.63	23.63	33	PASS
Band2	20MHz	16QAM	18700	1RB#0	20.61	23.61	33	PASS
Band2	20MHz	16QAM	18700	1RB#49	21.46	24.46	33	PASS
Band2	20MHz	16QAM	18700	1RB#99	20.68	23.68	33	PASS
Band2	20MHz	16QAM	18700	100RB#0	19.89	22.89	33	PASS
Band2	20MHz	16QAM	18900	1RB#0	20.65	23.65	33	PASS
Band2	20MHz	16QAM	18900	1RB#49	20.89	23.89	33	PASS
Band2	20MHz	16QAM	18900	1RB#99	20.71	23.71	33	PASS
Band2	20MHz	16QAM	18900	100RB#0	20.04	23.04	33	PASS
Band2	20MHz	16QAM	19100	1RB#0	20.44	23.44	33	PASS
Band2	20MHz	16QAM	19100	1RB#49	21.22	24.22	33	PASS
Band2	20MHz	16QAM	19100	1RB#99	20.67	23.67	33	PASS
Band2	20MHz	16QAM	19100	100RB#0	19.8	22.8	33	PASS



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Field Strength of Spurious Radiation

Test Band = LTE Band 2_ TM1

Test Channel = Low Channel

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3702	49.58	-45.69	29.88	-61.49	-13.00	48.49	296	329	Horizontal
2	5553	54.89	-43.87	32.77	-51.47	-13.00	38.47	233	315	Horizontal
3	7404.36	38.67	-41.96	36.44	-62.11	-13.00	49.11	254	70	Horizontal
4	9255.45	37.95	-38.39	38.57	-57.13	-13.00	44.13	142	35	Horizontal
5	11106.54	31.91	-35.35	39.49	-59.21	-13.00	46.21	285	0	Horizontal
6	12957.63	33.53	-34.89	39.56	-57.07	-13.00	44.07	263	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	3702	47.24	-45.69	29.88	-63.83	-13.00	50.83	201	102	Vertical
2	5553	55.09	-43.87	32.77	-51.27	-13.00	38.27	142	264	Vertical
3	7404.36	39.49	-41.96	36.44	-61.29	-13.00	48.29	285	357	Vertical
4	9255.45	37.94	-38.39	38.57	-57.14	-13.00	44.14	263	40	Vertical
5	11106.54	31.93	-35.35	39.49	-59.19	-13.00	46.19	255	150	Vertical
6	12957.63	33.10	-34.89	39.56	-57.50	-13.00	44.50	241	199	Vertical



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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

Test Band = LTE Band 2_ TM1

Test Channel = Mid Channel

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5613	51.29	-43.84	32.96	-54.85	-13.00	41.85	196	328	Horizontal
2	3742.18	42.80	-45.59	29.98	-68.06	-13.00	55.06	265	0	Horizontal
3	7484.36	38.33	-41.66	36.49	-62.10	-13.00	49.10	233	357	Horizontal
4	9355.45	36.64	-38.26	38.56	-58.32	-13.00	45.32	285	280	Horizontal
5	11226.54	33.63	-35.07	39.37	-57.32	-13.00	44.32	241	297	Horizontal
6	13097.63	32.77	-34.47	39.66	-57.30	-13.00	44.30	152	119	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	5613	46.06	-43.84	32.96	-60.08	-13.00	47.08	201	266	Vertical
2	3742.18	44.54	-45.59	29.98	-66.32	-13.00	53.32	144	0	Vertical
3	7484.36	38.19	-41.66	36.49	-62.24	-13.00	49.24	142	314	Vertical
4	9355.45	35.70	-38.26	38.56	-59.26	-13.00	46.26	263	314	Vertical
5	11226.54	33.78	-35.07	39.37	-57.17	-13.00	44.17	265	357	Vertical
6	13097.63	32.87	-34.47	39.66	-57.20	-13.00	44.20	296	216	Vertical



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

Test Band = LTE Band 2_ TM1
Test Channel = High Channel

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5673	48.04	-43.77	33.15	-57.84	-13.00	44.84	241	314	Horizontal
2	3782.18	41.66	-45.48	30.08	-69.00	-13.00	56.00	185	233	Horizontal
3	7564.36	39.64	-41.38	36.63	-60.37	-13.00	47.37	255	0	Horizontal
4	9455.45	35.80	-38.15	38.55	-59.06	-13.00	46.06	263	0	Horizontal
5	11346.54	32.31	-35.43	39.25	-59.13	-13.00	46.13	201	57	Horizontal
6	13237.63	33.96	-34.98	39.74	-56.53	-13.00	43.53	142	154	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	3782.18	47.05	-45.48	30.08	-63.61	-13.00	50.61	263	233	Vertical
2	5673.27	45.68	-43.77	33.16	-60.20	-13.00	47.20	255	265	Vertical
3	7564.36	38.84	-41.38	36.63	-61.17	-13.00	48.17	241	282	Vertical
4	9455.45	35.46	-38.15	38.55	-59.40	-13.00	46.40	142	151	Vertical
5	11346.54	32.42	-35.43	39.25	-59.02	-13.00	46.02	255	168	Vertical
6	13237.63	34.15	-34.98	39.74	-56.34	-13.00	43.34	286	0	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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