

Appendix B.9

LTE Band 17



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South of No. 6 Plant, No. 1, Runsheng Road, Suzhou Industrial Park, Suzhou Area, China (Jiangsu) Pilot Free Trade Zone 215000 t (86-512) 62992980 www.sgs.com.cn
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 sgs.china@sgs.com

Effective (Isotropic) Radiated Power Output Data

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	ERP(dBm)	Limit(dBm)	Verdict
Band17	5MHz	QPSK	23755	1RB#0	23.74	21.39	34.77	PASS
Band17	5MHz	QPSK	23755	1RB#12	23.77	21.42	34.77	PASS
Band17	5MHz	QPSK	23755	1RB#24	23.78	21.43	34.77	PASS
Band17	5MHz	QPSK	23755	25RB#0	22.96	20.61	34.77	PASS
Band17	5MHz	QPSK	23790	1RB#0	23.83	21.48	34.77	PASS
Band17	5MHz	QPSK	23790	1RB#12	23.79	21.44	34.77	PASS
Band17	5MHz	QPSK	23790	1RB#24	23.79	21.44	34.77	PASS
Band17	5MHz	QPSK	23790	25RB#0	22.90	20.55	34.77	PASS
Band17	5MHz	QPSK	23825	1RB#0	23.79	21.44	34.77	PASS
Band17	5MHz	QPSK	23825	1RB#12	23.84	21.49	34.77	PASS
Band17	5MHz	QPSK	23825	1RB#24	23.80	21.45	34.77	PASS
Band17	5MHz	QPSK	23825	25RB#0	22.87	20.52	34.77	PASS
Band17	5MHz	16QAM	23755	1RB#0	22.98	20.63	34.77	PASS
Band17	5MHz	16QAM	23755	1RB#12	23.04	20.69	34.77	PASS
Band17	5MHz	16QAM	23755	1RB#24	23.01	20.66	34.77	PASS
Band17	5MHz	16QAM	23755	25RB#0	21.94	19.59	34.77	PASS
Band17	5MHz	16QAM	23790	1RB#0	23.12	20.77	34.77	PASS
Band17	5MHz	16QAM	23790	1RB#12	22.93	20.58	34.77	PASS
Band17	5MHz	16QAM	23790	1RB#24	23.10	20.75	34.77	PASS
Band17	5MHz	16QAM	23790	25RB#0	21.93	19.58	34.77	PASS
Band17	5MHz	16QAM	23825	1RB#0	23.06	20.71	34.77	PASS
Band17	5MHz	16QAM	23825	1RB#12	23.09	20.74	34.77	PASS
Band17	5MHz	16QAM	23825	1RB#24	23.16	20.81	34.77	PASS
Band17	5MHz	16QAM	23825	25RB#0	21.94	19.59	34.77	PASS
Band17	10MHz	QPSK	23780	1RB#0	23.78	21.43	34.77	PASS



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

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

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

Band17	10MHz	QPSK	23780	1RB#24	23.80	21.45	34.77	PASS
Band17	10MHz	QPSK	23780	1RB#49	23.85	21.50	34.77	PASS
Band17	10MHz	QPSK	23780	50RB#0	22.92	20.57	34.77	PASS
Band17	10MHz	QPSK	23790	1RB#0	23.75	21.40	34.77	PASS
Band17	10MHz	QPSK	23790	1RB#24	23.80	21.45	34.77	PASS
Band17	10MHz	QPSK	23790	1RB#49	23.81	21.46	34.77	PASS
Band17	10MHz	QPSK	23790	50RB#0	22.96	20.61	34.77	PASS
Band17	10MHz	QPSK	23800	1RB#0	23.80	21.45	34.77	PASS
Band17	10MHz	QPSK	23800	1RB#24	23.81	21.46	34.77	PASS
Band17	10MHz	QPSK	23800	1RB#49	23.78	21.43	34.77	PASS
Band17	10MHz	QPSK	23800	50RB#0	22.89	20.54	34.77	PASS
Band17	10MHz	16QAM	23780	1RB#0	23.06	20.71	34.77	PASS
Band17	10MHz	16QAM	23780	1RB#24	23.14	20.79	34.77	PASS
Band17	10MHz	16QAM	23780	1RB#49	23.10	20.75	34.77	PASS
Band17	10MHz	16QAM	23780	50RB#0	21.95	19.60	34.77	PASS
Band17	10MHz	16QAM	23790	1RB#0	23.00	20.65	34.77	PASS
Band17	10MHz	16QAM	23790	1RB#24	23.04	20.69	34.77	PASS
Band17	10MHz	16QAM	23790	1RB#49	22.99	20.64	34.77	PASS
Band17	10MHz	16QAM	23790	50RB#0	21.95	19.60	34.77	PASS
Band17	10MHz	16QAM	23800	1RB#0	23.07	20.72	34.77	PASS
Band17	10MHz	16QAM	23800	1RB#24	23.04	20.69	34.77	PASS
Band17	10MHz	16QAM	23800	1RB#49	23.11	20.76	34.77	PASS
Band17	10MHz	16QAM	23800	50RB#0	21.92	19.57	34.77	PASS



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Field Strength of Spurious Radiation

Test Band = LTE_17_10MHz_TM1
 Test Channel = LCH

Final Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1409.0705	75.22	-53.63	25.78	-47.89	-13.00	34.89	152	247	Horizontal
2	2541.3271	53.57	-50.95	28.25	-64.39	-13.00	51.39	149	348	Horizontal
3	3971.0486	51.84	-47.92	30.98	-60.36	-13.00	47.36	363	152	Horizontal
4	5146.9573	51.21	-44.30	33.59	-54.76	-13.00	41.76	215	309	Horizontal
5	7103.6552	49.87	-43.30	36.91	-51.78	-13.00	38.78	184	198	Horizontal
6	9108.0554	48.72	-40.80	38.73	-48.61	-13.00	35.61	143	246	Horizontal

Final Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1409.0705	71.32	-53.63	25.78	-51.79	-13.00	38.79	136	228	Vertical
2	2532.3266	53.64	-51.01	28.19	-64.44	-13.00	51.44	184	226	Vertical
3	3974.1987	52.70	-47.93	31.00	-59.49	-13.00	46.49	194	228	Vertical
4	5142.0071	51.82	-44.28	33.58	-54.14	-13.00	41.14	346	228	Vertical
5	7369.1685	50.11	-42.69	36.86	-50.98	-13.00	37.98	216	208	Vertical
6	9542.3271	48.05	-39.91	39.12	-48.00	-13.00	35.00	184	26	Vertical



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Test Band = LTE_17_10MHz_TM1
Test Channel = MCH

Final Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1411.3206	76.36	-53.61	25.78	-46.73	-13.00	33.73	353	307	Horizontal
2	2116.9558	55.49	-52.14	27.47	-64.44	-13.00	51.44	219	120	Horizontal
3	3274.4137	52.74	-49.81	30.65	-61.68	-13.00	48.68	226	277	Horizontal
4	5119.956	50.91	-44.15	33.54	-54.96	-13.00	41.96	184	133	Horizontal
5	7373.6687	49.70	-42.67	36.85	-51.38	-13.00	38.38	128	188	Horizontal
6	9731.7866	47.61	-39.01	38.76	-47.90	-13.00	34.90	143	213	Horizontal

Final Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1411.3206	73.03	-53.61	25.78	-50.06	-13.00	37.06	259	231	Vertical
2	2112.9056	54.13	-52.13	27.47	-65.79	-13.00	52.79	308	300	Vertical
3	3147.5074	52.76	-50.05	30.29	-62.26	-13.00	49.26	365	351	Vertical
4	5083.5042	51.03	-44.24	33.47	-55.00	-13.00	42.00	184	30	Vertical
5	7355.6678	49.75	-42.77	36.89	-51.39	-13.00	38.39	235	358	Vertical
6	9747.5374	46.98	-38.87	38.80	-48.35	-13.00	35.35	184	182	Vertical



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Test Band = LTE_17_10MHz_TM1
Test Channel = HCH

Final Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1413.1207	75.17	-53.59	25.77	-47.91	-13.00	34.91	194	295	Horizontal
2	2119.656	55.73	-52.15	27.46	-64.22	-13.00	51.22	304	262	Horizontal
3	3319.416	52.59	-49.72	30.31	-62.08	-13.00	49.08	251	178	Horizontal
4	5139.307	51.32	-44.26	33.58	-54.62	-13.00	41.62	203	65	Horizontal
5	7360.168	49.58	-42.74	36.88	-51.54	-13.00	38.54	318	262	Horizontal
6	9047.7524	48.34	-40.12	38.70	-48.34	-13.00	35.34	184	51	Horizontal

Final Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1413.1207	74.68	-53.59	25.77	-48.40	-13.00	35.40	153	232	Vertical
2	2110.6555	54.06	-52.12	27.48	-65.84	-13.00	52.84	284	77	Vertical
3	3308.1654	52.63	-49.72	30.54	-61.81	-13.00	48.81	143	352	Vertical
4	5086.6543	51.22	-44.20	33.47	-54.77	-13.00	41.77	310	260	Vertical
5	7365.1183	49.75	-42.72	36.87	-51.36	-13.00	38.36	218	338	Vertical
6	9084.6542	48.68	-40.52	38.70	-48.40	-13.00	35.40	184	255	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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