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# Appendix B.9

## LTE Band 17



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## 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	22.57	22	34.77	PASS
Band17	5MHz	QPSK	23755	1RB#12	22.54	21.97	34.77	PASS
Band17	5MHz	QPSK	23755	1RB#24	22.54	21.97	34.77	PASS
Band17	5MHz	QPSK	23755	25RB#0	21.5	20.93	34.77	PASS
Band17	5MHz	QPSK	23790	1RB#0	22.52	21.95	34.77	PASS
Band17	5MHz	QPSK	23790	1RB#12	22.52	21.95	34.77	PASS
Band17	5MHz	QPSK	23790	1RB#24	22.45	21.88	34.77	PASS
Band17	5MHz	QPSK	23790	25RB#0	21.48	20.91	34.77	PASS
Band17	5MHz	QPSK	23825	1RB#0	22.51	21.94	34.77	PASS
Band17	5MHz	QPSK	23825	1RB#12	22.51	21.94	34.77	PASS
Band17	5MHz	QPSK	23825	1RB#24	22.38	21.81	34.77	PASS
Band17	5MHz	QPSK	23825	25RB#0	21.46	20.89	34.77	PASS
Band17	5MHz	16QAM	23755	1RB#0	21.65	21.08	34.77	PASS
Band17	5MHz	16QAM	23755	1RB#12	21.68	21.11	34.77	PASS
Band17	5MHz	16QAM	23755	1RB#24	21.57	21	34.77	PASS
Band17	5MHz	16QAM	23755	25RB#0	20.48	19.91	34.77	PASS
Band17	5MHz	16QAM	23790	1RB#0	21.58	21.01	34.77	PASS
Band17	5MHz	16QAM	23790	1RB#12	21.65	21.08	34.77	PASS
Band17	5MHz	16QAM	23790	1RB#24	21.57	21	34.77	PASS
Band17	5MHz	16QAM	23790	25RB#0	20.45	19.88	34.77	PASS
Band17	5MHz	16QAM	23825	1RB#0	21.58	21.01	34.77	PASS
Band17	5MHz	16QAM	23825	1RB#12	21.67	21.1	34.77	PASS
Band17	5MHz	16QAM	23825	1RB#24	21.49	20.92	34.77	PASS
Band17	5MHz	16QAM	23825	25RB#0	20.47	19.9	34.77	PASS
Band17	5MHz	64QAM	23755	1RB#0	20.66	20.09	34.77	PASS
Band17	5MHz	64QAM	23755	1RB#12	20.68	20.11	34.77	PASS
Band17	5MHz	64QAM	23755	1RB#24	20.69	20.12	34.77	PASS



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Band17	5MHz	64QAM	23755	25RB#0	19.65	19.08	34.77	PASS
Band17	5MHz	64QAM	23790	1RB#0	20.67	20.1	34.77	PASS
Band17	5MHz	64QAM	23790	1RB#12	20.72	20.15	34.77	PASS
Band17	5MHz	64QAM	23790	1RB#24	20.61	20.04	34.77	PASS
Band17	5MHz	64QAM	23790	25RB#0	19.65	19.08	34.77	PASS
Band17	5MHz	64QAM	23825	1RB#0	20.64	20.07	34.77	PASS
Band17	5MHz	64QAM	23825	1RB#12	20.62	20.05	34.77	PASS
Band17	5MHz	64QAM	23825	1RB#24	20.51	19.94	34.77	PASS
Band17	5MHz	64QAM	23825	25RB#0	19.62	19.05	34.77	PASS
Band17	5MHz	256QAM	23755	1RB#0	18.98	18.41	34.77	PASS
Band17	5MHz	256QAM	23755	1RB#12	18.45	17.88	34.77	PASS
Band17	5MHz	256QAM	23755	1RB#24	18.72	18.15	34.77	PASS
Band17	5MHz	256QAM	23755	25RB#0	17.96	17.39	34.77	PASS
Band17	5MHz	256QAM	23790	1RB#0	18.56	17.99	34.77	PASS
Band17	5MHz	256QAM	23790	1RB#12	18.63	18.06	34.77	PASS
Band17	5MHz	256QAM	23790	1RB#24	18.65	18.08	34.77	PASS
Band17	5MHz	256QAM	23790	25RB#0	17.23	16.66	34.77	PASS
Band17	5MHz	256QAM	23825	1RB#0	18.69	18.12	34.77	PASS
Band17	5MHz	256QAM	23825	1RB#12	18.75	18.18	34.77	PASS
Band17	5MHz	256QAM	23825	1RB#24	18.65	18.08	34.77	PASS
Band17	5MHz	256QAM	23825	25RB#0	17.58	17.01	34.77	PASS
Band17	10MHz	QPSK	23780	1RB#0	22.54	21.97	34.77	PASS
Band17	10MHz	QPSK	23780	1RB#24	22.54	21.97	34.77	PASS
Band17	10MHz	QPSK	23780	1RB#49	22.39	21.82	34.77	PASS
Band17	10MHz	QPSK	23780	50RB#0	21.39	20.82	34.77	PASS
Band17	10MHz	QPSK	23790	1RB#0	22.55	21.98	34.77	PASS
Band17	10MHz	QPSK	23790	1RB#24	22.52	21.95	34.77	PASS
Band17	10MHz	QPSK	23790	1RB#49	22.39	21.82	34.77	PASS
Band17	10MHz	QPSK	23790	50RB#0	21.43	20.86	34.77	PASS
Band17	10MHz	QPSK	23800	1RB#0	22.52	21.95	34.77	PASS
Band17	10MHz	QPSK	23800	1RB#24	22.5	21.93	34.77	PASS
Band17	10MHz	QPSK	23800	1RB#49	22.33	21.76	34.77	PASS



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Band17	10MHz	16QAM	23780	1RB#0	21.64	21.07	34.77	PASS
Band17	10MHz	16QAM	23780	1RB#24	21.66	21.09	34.77	PASS
Band17	10MHz	16QAM	23780	1RB#49	21.53	20.96	34.77	PASS
Band17	10MHz	16QAM	23780	50RB#0	20.41	19.84	34.77	PASS
Band17	10MHz	16QAM	23790	1RB#0	21.71	21.14	34.77	PASS
Band17	10MHz	16QAM	23790	1RB#24	21.64	21.07	34.77	PASS
Band17	10MHz	16QAM	23790	1RB#49	21.52	20.95	34.77	PASS
Band17	10MHz	16QAM	23790	50RB#0	20.44	19.87	34.77	PASS
Band17	10MHz	16QAM	23800	1RB#0	21.63	21.06	34.77	PASS
Band17	10MHz	16QAM	23800	1RB#24	21.66	21.09	34.77	PASS
Band17	10MHz	16QAM	23800	1RB#49	21.44	20.87	34.77	PASS
Band17	10MHz	16QAM	23800	50RB#0	20.48	19.91	34.77	PASS
Band17	10MHz	64QAM	23780	1RB#0	20.72	20.15	34.77	PASS
Band17	10MHz	64QAM	23780	1RB#24	20.72	20.15	34.77	PASS
Band17	10MHz	64QAM	23780	1RB#49	20.54	19.97	34.77	PASS
Band17	10MHz	64QAM	23780	50RB#0	19.56	18.99	34.77	PASS
Band17	10MHz	64QAM	23790	1RB#0	20.67	20.1	34.77	PASS
Band17	10MHz	64QAM	23790	1RB#24	20.66	20.09	34.77	PASS
Band17	10MHz	64QAM	23790	1RB#49	20.55	19.98	34.77	PASS
Band17	10MHz	64QAM	23790	50RB#0	19.61	19.04	34.77	PASS
Band17	10MHz	64QAM	23800	1RB#0	20.66	20.09	34.77	PASS
Band17	10MHz	64QAM	23800	1RB#24	20.66	20.09	34.77	PASS
Band17	10MHz	64QAM	23800	1RB#49	20.56	19.99	34.77	PASS
Band17	10MHz	64QAM	23800	50RB#0	19.72	19.15	34.77	PASS
Band17	10MHz	256QAM	23780	1RB#0	18.96	18.39	34.77	PASS
Band17	10MHz	256QAM	23780	1RB#24	18.78	18.21	34.77	PASS
Band17	10MHz	256QAM	23780	1RB#49	18.65	18.08	34.77	PASS
Band17	10MHz	256QAM	23780	50RB#0	17.52	16.95	34.77	PASS
Band17	10MHz	256QAM	23790	1RB#0	18.65	18.08	34.77	PASS
Band17	10MHz	256QAM	23790	1RB#24	18.45	17.88	34.77	PASS
Band17	10MHz	256QAM	23790	1RB#49	18.63	18.06	34.77	PASS



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Band17	10MHz	256QAM	23790	50RB#0	17.52	16.95	34.77	PASS
Band17	10MHz	256QAM	23800	1RB#0	18.32	17.75	34.77	PASS
Band17	10MHz	256QAM	23800	1RB#24	18.45	17.88	34.77	PASS
Band17	10MHz	256QAM	23800	1RB#49	17.63	17.06	34.77	PASS
Band17	10MHz	256QAM	23800	50RB#0	17.52	16.95	34.77	PASS



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## Field Strength of Spurious Radiation

Test Band = LTE Band17\_ 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	1409.1800	43.40	-48.03	25.61	-74.28	-13.00	61.28	211	77	Horizontal
2	2113.7700	41.86	-47.71	27.04	-74.07	-13.00	61.07	125	278	Horizontal
3	2818.3600	41.97	-46.85	28.56	-71.58	-13.00	58.58	143	14	Horizontal
4	3522.9500	41.39	-46.49	29.54	-70.82	-13.00	57.82	236	2	Horizontal
5	4227.5400	40.38	-45.91	31.16	-69.63	-13.00	56.63	265	226	Horizontal
6	4932.1300	40.97	-45.65	32.69	-67.25	-13.00	54.25	210	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	1409.1800	43.69	-48.03	25.61	-73.99	-13.00	60.99	244	173	Vertical
2	2113.7700	41.91	-47.71	27.04	-74.02	-13.00	61.02	125	320	Vertical
3	2818.3600	42.21	-46.85	28.56	-71.34	-13.00	58.34	163	53	Vertical
4	3522.9500	41.90	-46.49	29.54	-70.31	-13.00	57.31	259	106	Vertical
5	4227.5400	39.95	-45.91	31.16	-70.06	-13.00	57.06	191	79	Vertical
6	4932.1300	41.06	-45.65	32.69	-67.16	-13.00	54.16	174	53	Vertical



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**Test Band = LTE Band17\_ 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	1411.1800	43.59	-48.04	25.60	-74.10	-13.00	61.10	233	335	Horizontal
2	2116.7700	42.14	-47.70	27.05	-73.77	-13.00	60.77	265	121	Horizontal
3	2822.3600	42.61	-46.84	28.58	-70.91	-13.00	57.91	158	356	Horizontal
4	3527.9500	41.92	-46.48	29.55	-70.28	-13.00	57.28	169	214	Horizontal
5	4233.5400	40.66	-45.90	31.17	-69.33	-13.00	56.33	192	202	Horizontal
6	4939.1300	41.54	-45.67	32.71	-66.68	-13.00	53.68	145	68	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	1411.1800	43.10	-48.04	25.60	-74.59	-13.00	61.59	256	200	Vertical
2	2116.7700	42.05	-47.70	27.05	-73.86	-13.00	60.86	125	4	Vertical
3	2822.3600	42.29	-46.84	28.58	-71.23	-13.00	58.23	148	38	Vertical
4	3527.9500	41.45	-46.48	29.55	-70.75	-13.00	57.75	133	319	Vertical
5	4233.5400	40.26	-45.90	31.17	-69.73	-13.00	56.73	203	252	Vertical
6	4939.1300	40.54	-45.67	32.71	-67.68	-13.00	54.68	265	53	Vertical



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**Test Band = LTE Band17\_ 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	1413.1800	43.21	-48.04	25.60	-74.49	-13.00	61.49	147	266	Horizontal
2	2119.7700	42.27	-47.70	27.06	-73.63	-13.00	60.63	158	347	Horizontal
3	2826.3600	41.99	-46.83	28.60	-71.50	-13.00	58.50	169	132	Horizontal
4	3532.9500	41.78	-46.47	29.55	-70.40	-13.00	57.40	251	347	Horizontal
5	4239.5400	40.36	-45.89	31.18	-69.61	-13.00	56.61	145	54	Horizontal
6	4946.1300	41.06	-45.69	32.73	-67.16	-13.00	54.16	136	321	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	1413.1800	43.09	-48.04	25.60	-74.61	-13.00	61.61	221	198	Vertical
2	2119.7700	42.74	-47.70	27.06	-73.16	-13.00	60.16	236	4	Vertical
3	2826.3600	42.30	-46.83	28.60	-71.19	-13.00	58.19	256	105	Vertical
4	3532.9500	41.33	-46.47	29.55	-70.85	-13.00	57.85	145	242	Vertical
5	4239.5400	40.82	-45.89	31.18	-69.15	-13.00	56.15	192	359	Vertical
6	4946.1300	40.75	-45.69	32.73	-67.47	-13.00	54.47	302	13	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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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