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# Appendix B.5

## LTE Band 12



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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
Band12	1.4MHz	QPSK	23017	1RB#0	22.49	17.39	34.77	PASS
Band12	1.4MHz	QPSK	23017	1RB#2	22.51	17.41	34.77	PASS
Band12	1.4MHz	QPSK	23017	1RB#5	22.64	17.54	34.77	PASS
Band12	1.4MHz	QPSK	23017	6RB#0	22.06	16.96	34.77	PASS
Band12	1.4MHz	QPSK	23095	1RB#0	23.08	17.98	34.77	PASS
Band12	1.4MHz	QPSK	23095	1RB#2	23.08	17.98	34.77	PASS
Band12	1.4MHz	QPSK	23095	1RB#5	23.09	17.99	34.77	PASS
Band12	1.4MHz	QPSK	23095	6RB#0	22.18	17.08	34.77	PASS
Band12	1.4MHz	QPSK	23173	1RB#0	21.77	16.67	34.77	PASS
Band12	1.4MHz	QPSK	23173	1RB#2	21.42	16.32	34.77	PASS
Band12	1.4MHz	QPSK	23173	1RB#5	21.06	15.96	34.77	PASS
Band12	1.4MHz	QPSK	23173	6RB#0	21.28	16.18	34.77	PASS
Band12	1.4MHz	16QAM	23017	1RB#0	21.66	16.56	34.77	PASS
Band12	1.4MHz	16QAM	23017	1RB#2	21.75	16.65	34.77	PASS
Band12	1.4MHz	16QAM	23017	1RB#5	21.89	16.79	34.77	PASS
Band12	1.4MHz	16QAM	23017	6RB#0	21.04	15.94	34.77	PASS
Band12	1.4MHz	16QAM	23095	1RB#0	22.03	16.93	34.77	PASS
Band12	1.4MHz	16QAM	23095	1RB#2	21.94	16.84	34.77	PASS
Band12	1.4MHz	16QAM	23095	1RB#5	21.91	16.81	34.77	PASS
Band12	1.4MHz	16QAM	23095	6RB#0	21.26	16.16	34.77	PASS
Band12	1.4MHz	16QAM	23173	1RB#0	21.09	15.99	34.77	PASS
Band12	1.4MHz	16QAM	23173	1RB#2	20.91	15.81	34.77	PASS
Band12	1.4MHz	16QAM	23173	1RB#5	20.51	15.41	34.77	PASS
Band12	1.4MHz	16QAM	23173	6RB#0	20.54	15.44	34.77	PASS
Band12	3MHz	QPSK	23025	1RB#0	22.18	17.08	34.77	PASS
Band12	3MHz	QPSK	23025	1RB#8	22.83	17.73	34.77	PASS
Band12	3MHz	QPSK	23025	1RB#14	23.12	18.02	34.77	PASS



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Band12	3MHz	QPSK	23025	15RB#0	22.06	16.96	34.77	PASS
Band12	3MHz	QPSK	23095	1RB#0	23.32	18.22	34.77	PASS
Band12	3MHz	QPSK	23095	1RB#8	23.00	17.9	34.77	PASS
Band12	3MHz	QPSK	23095	1RB#14	22.93	17.83	34.77	PASS
Band12	3MHz	QPSK	23095	15RB#0	22.20	17.1	34.77	PASS
Band12	3MHz	QPSK	23165	1RB#0	22.61	17.51	34.77	PASS
Band12	3MHz	QPSK	23165	1RB#8	21.85	16.75	34.77	PASS
Band12	3MHz	QPSK	23165	1RB#14	20.96	15.86	34.77	PASS
Band12	3MHz	QPSK	23165	15RB#0	21.82	16.72	34.77	PASS
Band12	3MHz	16QAM	23025	1RB#0	21.35	16.25	34.77	PASS
Band12	3MHz	16QAM	23025	1RB#8	21.85	16.75	34.77	PASS
Band12	3MHz	16QAM	23025	1RB#14	22.20	17.1	34.77	PASS
Band12	3MHz	16QAM	23025	15RB#0	21.08	15.98	34.77	PASS
Band12	3MHz	16QAM	23095	1RB#0	22.04	16.94	34.77	PASS
Band12	3MHz	16QAM	23095	1RB#8	21.96	16.86	34.77	PASS
Band12	3MHz	16QAM	23095	1RB#14	22.04	16.94	34.77	PASS
Band12	3MHz	16QAM	23095	15RB#0	21.13	16.03	34.77	PASS
Band12	3MHz	16QAM	23165	1RB#0	21.88	16.78	34.77	PASS
Band12	3MHz	16QAM	23165	1RB#8	21.28	16.18	34.77	PASS
Band12	3MHz	16QAM	23165	1RB#14	20.25	15.15	34.77	PASS
Band12	3MHz	16QAM	23165	15RB#0	21.00	15.9	34.77	PASS
Band12	5MHz	QPSK	23035	1RB#0	22.14	17.04	34.77	PASS
Band12	5MHz	QPSK	23035	1RB#12	23.14	18.04	34.77	PASS
Band12	5MHz	QPSK	23035	1RB#24	22.92	17.82	34.77	PASS
Band12	5MHz	QPSK	23035	25RB#0	22.17	17.07	34.77	PASS
Band12	5MHz	QPSK	23095	1RB#0	23.29	18.19	34.77	PASS
Band12	5MHz	QPSK	23095	1RB#12	23.13	18.03	34.77	PASS
Band12	5MHz	QPSK	23095	1RB#24	22.75	17.65	34.77	PASS
Band12	5MHz	QPSK	23095	25RB#0	22.28	17.18	34.77	PASS
Band12	5MHz	QPSK	23155	1RB#0	22.72	17.62	34.77	PASS
Band12	5MHz	QPSK	23155	1RB#12	22.52	17.42	34.77	PASS
Band12	5MHz	QPSK	23155	1RB#24	20.95	15.85	34.77	PASS



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Band12	5MHz	QPSK	23155	25RB#0	22.21	17.11	34.77	PASS
Band12	5MHz	16QAM	23035	1RB#0	21.27	16.17	34.77	PASS
Band12	5MHz	16QAM	23035	1RB#12	22.07	16.97	34.77	PASS
Band12	5MHz	16QAM	23035	1RB#24	22.13	17.03	34.77	PASS
Band12	5MHz	16QAM	23035	25RB#0	21.18	16.08	34.77	PASS
Band12	5MHz	16QAM	23095	1RB#0	21.98	16.88	34.77	PASS
Band12	5MHz	16QAM	23095	1RB#12	22.04	16.94	34.77	PASS
Band12	5MHz	16QAM	23095	1RB#24	21.96	16.86	34.77	PASS
Band12	5MHz	16QAM	23095	25RB#0	21.21	16.11	34.77	PASS
Band12	5MHz	16QAM	23155	1RB#0	21.99	16.89	34.77	PASS
Band12	5MHz	16QAM	23155	1RB#12	21.94	16.84	34.77	PASS
Band12	5MHz	16QAM	23155	1RB#24	20.37	15.27	34.77	PASS
Band12	5MHz	16QAM	23155	25RB#0	21.10	16	34.77	PASS
Band12	10MHz	QPSK	23060	1RB#0	21.67	16.57	34.77	PASS
Band12	10MHz	QPSK	23060	1RB#24	22.98	17.88	34.77	PASS
Band12	10MHz	QPSK	23060	1RB#49	22.36	17.26	34.77	PASS
Band12	10MHz	QPSK	23060	50RB#0	22.25	17.15	34.77	PASS
Band12	10MHz	QPSK	23095	1RB#0	22.67	17.57	34.77	PASS
Band12	10MHz	QPSK	23095	1RB#24	23.15	18.05	34.77	PASS
Band12	10MHz	QPSK	23095	1RB#49	22.12	17.02	34.77	PASS
Band12	10MHz	QPSK	23095	50RB#0	22.26	17.16	34.77	PASS
Band12	10MHz	QPSK	23130	1RB#0	22.55	17.45	34.77	PASS
Band12	10MHz	QPSK	23130	1RB#24	22.88	17.78	34.77	PASS
Band12	10MHz	QPSK	23130	1RB#49	20.58	15.48	34.77	PASS
Band12	10MHz	QPSK	23130	50RB#0	22.46	17.36	34.77	PASS
Band12	10MHz	16QAM	23060	1RB#0	20.96	15.86	34.77	PASS
Band12	10MHz	16QAM	23060	1RB#24	22.01	16.91	34.77	PASS
Band12	10MHz	16QAM	23060	1RB#49	21.68	16.58	34.77	PASS
Band12	10MHz	16QAM	23060	50RB#0	21.25	16.15	34.77	PASS
Band12	10MHz	16QAM	23095	1RB#0	22.02	16.92	34.77	PASS
Band12	10MHz	16QAM	23095	1RB#24	22.07	16.97	34.77	PASS
Band12	10MHz	16QAM	23095	1RB#49	21.46	16.36	34.77	PASS



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Band12	10MHz	16QAM	23130	1RB#0	21.83	16.73	34.77	PASS
Band12	10MHz	16QAM	23130	1RB#24	21.82	16.72	34.77	PASS
Band12	10MHz	16QAM	23130	1RB#49	20.00	14.9	34.77	PASS
Band12	10MHz	16QAM	23130	50RB#0	21.11	16.01	34.77	PASS



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**Field Strength of Spurious Radiation****Test Band = LTE Band12\_ 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	1399.1800	50.93	-48.00	25.62	-66.71	-13.00	53.71	132	214	Horizontal
2	2098.7700	49.80	-47.71	26.99	-66.19	-13.00	53.19	152	4	Horizontal
3	2798.3600	50.57	-46.92	28.48	-63.13	-13.00	50.13	145	293	Horizontal
4	3497.9500	50.87	-46.54	29.52	-61.41	-13.00	48.41	100	202	Horizontal
5	4197.5400	48.74	-45.96	31.10	-61.38	-13.00	48.38	185	54	Horizontal
6	4897.1300	49.95	-45.58	32.59	-58.30	-13.00	45.30	144	4	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	1399.1800	52.58	-48.00	25.62	-65.06	-13.00	52.06	254	2	Vertical
2	2098.7700	50.97	-47.71	26.99	-65.02	-13.00	52.02	163	279	Vertical
3	2798.3600	49.89	-46.92	28.48	-63.81	-13.00	50.81	251	90	Vertical
4	3497.9500	49.67	-46.54	29.52	-62.61	-13.00	49.61	199	197	Vertical
5	4197.5400	48.19	-45.96	31.10	-61.93	-13.00	48.93	148	0	Vertical
6	4897.1300	50.39	-45.58	32.59	-57.86	-13.00	44.86	175	0	Vertical



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**Test Band = LTE Band12\_ 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	1406.1800	84.54	-48.02	25.61	-33.13	-13.00	20.13	254	4	Horizontal
2	2109.2700	66.73	-47.71	27.02	-49.21	-13.00	36.21	169	163	Horizontal
3	2812.3600	75.18	-46.88	28.53	-38.42	-13.00	25.42	155	96	Horizontal
4	3515.4500	57.44	-46.51	29.53	-54.79	-13.00	41.79	184	177	Horizontal
5	4218.5400	50.50	-45.93	31.14	-59.55	-13.00	46.55	175	109	Horizontal
6	4921.6300	50.01	-45.63	32.66	-58.22	-13.00	45.22	132	81	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	1406.1800	85.36	-48.02	25.61	-32.31	-13.00	19.31	215	240	Vertical
2	2109.2700	62.57	-47.71	27.02	-53.37	-13.00	40.37	146	306	Vertical
3	2812.3600	69.84	-46.88	28.53	-43.76	-13.00	30.76	192	254	Vertical
4	3515.4500	57.56	-46.51	29.53	-54.67	-13.00	41.67	188	267	Vertical
5	4218.5400	49.39	-45.93	31.14	-60.66	-13.00	47.66	174	118	Vertical
6	4921.6300	49.85	-45.63	32.66	-58.38	-13.00	45.38	132	267	Vertical



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**Test Band = LTE Band12\_ 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	82.38	-48.04	25.60	-35.32	-13.00	22.32	222	360	Horizontal
2	2119.7700	75.22	-47.70	27.06	-40.68	-13.00	27.68	145	358	Horizontal
3	2826.3600	76.81	-46.83	28.60	-36.68	-13.00	23.68	133	93	Horizontal
4	3532.9500	62.49	-46.47	29.55	-49.69	-13.00	36.69	251	188	Horizontal
5	4239.5400	50.76	-45.89	31.18	-59.21	-13.00	46.21	145	39	Horizontal
6	4946.1300	52.45	-45.69	32.73	-55.77	-13.00	42.77	195	296	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	85.23	-48.04	25.60	-32.47	-13.00	19.47	231	239	Vertical
2	2119.7700	68.97	-47.70	27.06	-46.93	-13.00	33.93	147	199	Vertical
3	2826.3600	72.79	-46.83	28.60	-40.70	-13.00	27.70	175	6	Vertical
4	3532.9500	63.16	-46.47	29.55	-49.02	-13.00	36.02	142	280	Vertical
5	4239.5400	48.90	-45.89	31.18	-61.07	-13.00	48.07	190	319	Vertical
6	4946.1300	49.26	-45.69	32.73	-58.96	-13.00	45.96	188	64	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