

# Appendix B.13

## LTE Band 30



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

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## 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            | 22.13       | 19.13     | 23.98      | PASS    |
| Band30 | 5MHz      | QPSK       | 27685   | 1RB#12           | 22.16       | 19.16     | 23.98      | PASS    |
| Band30 | 5MHz      | QPSK       | 27685   | 1RB#24           | 22.22       | 19.22     | 23.98      | PASS    |
| Band30 | 5MHz      | QPSK       | 27685   | 25RB#0           | 21.23       | 18.23     | 23.98      | PASS    |
| Band30 | 5MHz      | QPSK       | 27710   | 1RB#0            | 22.15       | 19.15     | 23.98      | PASS    |
| Band30 | 5MHz      | QPSK       | 27710   | 1RB#12           | 22.11       | 19.11     | 23.98      | PASS    |
| Band30 | 5MHz      | QPSK       | 27710   | 1RB#24           | 22.11       | 19.11     | 23.98      | PASS    |
| Band30 | 5MHz      | QPSK       | 27710   | 25RB#0           | 21.24       | 18.24     | 23.98      | PASS    |
| Band30 | 5MHz      | QPSK       | 27735   | 1RB#0            | 22.02       | 19.02     | 23.98      | PASS    |
| Band30 | 5MHz      | QPSK       | 27735   | 1RB#12           | 22.00       | 19        | 23.98      | PASS    |
| Band30 | 5MHz      | QPSK       | 27735   | 1RB#24           | 21.99       | 18.99     | 23.98      | PASS    |
| Band30 | 5MHz      | QPSK       | 27735   | 25RB#0           | 21.09       | 18.09     | 23.98      | PASS    |
| Band30 | 5MHz      | 16QAM      | 27685   | 1RB#0            | 21.32       | 18.32     | 23.98      | PASS    |
| Band30 | 5MHz      | 16QAM      | 27685   | 1RB#12           | 21.35       | 18.35     | 23.98      | PASS    |
| Band30 | 5MHz      | 16QAM      | 27685   | 1RB#24           | 21.52       | 18.52     | 23.98      | PASS    |
| Band30 | 5MHz      | 16QAM      | 27685   | 25RB#0           | 20.23       | 17.23     | 23.98      | PASS    |
| Band30 | 5MHz      | 16QAM      | 27710   | 1RB#0            | 21.29       | 18.29     | 23.98      | PASS    |
| Band30 | 5MHz      | 16QAM      | 27710   | 1RB#12           | 21.38       | 18.38     | 23.98      | PASS    |
| Band30 | 5MHz      | 16QAM      | 27710   | 1RB#24           | 21.30       | 18.3      | 23.98      | PASS    |
| Band30 | 5MHz      | 16QAM      | 27710   | 25RB#0           | 20.21       | 17.21     | 23.98      | PASS    |
| Band30 | 5MHz      | 16QAM      | 27735   | 1RB#0            | 21.29       | 18.29     | 23.98      | PASS    |
| Band30 | 5MHz      | 16QAM      | 27735   | 1RB#12           | 21.19       | 18.19     | 23.98      | PASS    |
| Band30 | 5MHz      | 16QAM      | 27735   | 1RB#24           | 21.16       | 18.16     | 23.98      | PASS    |
| Band30 | 5MHz      | 16QAM      | 27735   | 25RB#0           | 20.02       | 17.02     | 23.98      | PASS    |
| Band30 | 10MHz     | QPSK       | 27710   | 1RB#0            | 21.94       | 18.94     | 23.98      | PASS    |
| Band30 | 10MHz     | QPSK       | 27710   | 1RB#24           | 22.00       | 19        | 23.98      | PASS    |
| Band30 | 10MHz     | QPSK       | 27710   | 1RB#49           | 21.96       | 18.96     | 23.98      | PASS    |



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|        |       |       |       |        |       |       |       |      |
|--------|-------|-------|-------|--------|-------|-------|-------|------|
| Band30 | 10MHz | QPSK  | 27710 | 50RB#0 | 20.14 | 17.14 | 23.98 | PASS |
| Band30 | 10MHz | 16QAM | 27710 | 1RB#0  | 21.15 | 18.15 | 23.98 | PASS |
| Band30 | 10MHz | 16QAM | 27710 | 1RB#24 | 21.20 | 18.2  | 23.98 | PASS |
| Band30 | 10MHz | 16QAM | 27710 | 1RB#49 | 21.25 | 18.25 | 23.98 | PASS |
| Band30 | 10MHz | 16QAM | 27710 | 50RB#0 | 20.06 | 17.06 | 23.98 | PASS |



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## Field Strength of Spurious Radiation

Test Band = LTE Band 30 BW 10M\_ TM1

Test Channel = Mid Channel

| Final Data List |                 |                |             |          |             |             |             |            |
|-----------------|-----------------|----------------|-------------|----------|-------------|-------------|-------------|------------|
| NO.             | Frequency [MHz] | Reading [dBμV] | Factor [dB] | AF[dB/m] | Level [dBm] | Limit [dBm] | Margin [dB] | Polarity   |
| 1               | 4611.1800       | 40.95          | -45.66      | 30.55    | -69.43      | -40.00      | 29.43       | Horizontal |
| 2               | 6916.7700       | 39.62          | -44.01      | 35.05    | -64.59      | -40.00      | 24.59       | Horizontal |
| 3               | 9222.3600       | 32.86          | -40.24      | 36.72    | -65.92      | -40.00      | 25.92       | Horizontal |
| 4               | 11527.9500      | 31.39          | -37.19      | 38.75    | -62.31      | -40.00      | 22.31       | Horizontal |
| 5               | 13833.5400      | 34.64          | -36.08      | 40.60    | -56.10      | -40.00      | 16.10       | Horizontal |
| 6               | 16139.1300      | 34.02          | -34.58      | 39.63    | -56.19      | -40.00      | 16.19       | Horizontal |

| Final Data List |                 |                |             |          |             |             |             |          |
|-----------------|-----------------|----------------|-------------|----------|-------------|-------------|-------------|----------|
| NO.             | Frequency [MHz] | Reading [dBμV] | Factor [dB] | AF[dB/m] | Level [dBm] | Limit [dBm] | Margin [dB] | Polarity |
| 1               | 4611.1800       | 40.90          | -45.66      | 30.55    | -69.48      | -40.00      | 29.48       | Vertical |
| 2               | 6916.7700       | 39.60          | -44.01      | 35.05    | -64.61      | -40.00      | 24.61       | Vertical |
| 3               | 9222.3600       | 33.15          | -40.24      | 36.72    | -65.63      | -40.00      | 25.63       | Vertical |
| 4               | 11527.9500      | 30.11          | -37.19      | 38.75    | -63.59      | -40.00      | 23.59       | Vertical |
| 5               | 13833.5400      | 35.08          | -36.08      | 40.60    | -55.66      | -40.00      | 15.66       | Vertical |
| 6               | 16139.1300      | 33.26          | -34.58      | 39.63    | -56.95      | -40.00      | 16.95       | Vertical |



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**Test Band = LTE Band 30 BW 5M\_ TM1**

**Test Channel = Low Channel**

| Final Data List |                 |                |             |          |             |             |             |            |
|-----------------|-----------------|----------------|-------------|----------|-------------|-------------|-------------|------------|
| NO.             | Frequency [MHz] | Reading [dBμV] | Factor [dB] | AF[dB/m] | Level [dBm] | Limit [dBm] | Margin [dB] | Polarity   |
| 1               | 4610.6800       | 41.09          | -45.66      | 30.54    | -69.29      | -40.00      | 29.29       | Horizontal |
| 2               | 6916.0200       | 38.85          | -44.01      | 35.05    | -65.37      | -40.00      | 25.37       | Horizontal |
| 3               | 9221.3600       | 32.71          | -40.24      | 36.72    | -66.07      | -40.00      | 26.07       | Horizontal |
| 4               | 11526.7000      | 31.77          | -37.20      | 38.75    | -61.94      | -40.00      | 21.94       | Horizontal |
| 5               | 13831.5         | 37.47          | -36.10      | 40.60    | -53.29      | -40.00      | 13.29       | Horizontal |
| 6               | 16137.3800      | 33.50          | -34.58      | 39.63    | -56.71      | -40.00      | 16.71       | Horizontal |

| Final Data List |                 |                |             |          |             |             |             |          |
|-----------------|-----------------|----------------|-------------|----------|-------------|-------------|-------------|----------|
| NO.             | Frequency [MHz] | Reading [dBμV] | Factor [dB] | AF[dB/m] | Level [dBm] | Limit [dBm] | Margin [dB] | Polarity |
| 1               | 4610.6800       | 41.03          | -45.66      | 30.54    | -69.35      | -40.00      | 29.35       | Vertical |
| 2               | 6916.0200       | 39.77          | -44.01      | 35.05    | -64.45      | -40.00      | 24.45       | Vertical |
| 3               | 9221.3600       | 33.09          | -40.24      | 36.72    | -65.69      | -40.00      | 25.69       | Vertical |
| 4               | 11526.7000      | 29.73          | -37.20      | 38.75    | -63.98      | -40.00      | 23.98       | Vertical |
| 5               | 13832.0400      | 34.27          | -36.09      | 40.60    | -56.49      | -40.00      | 16.49       | Vertical |
| 6               | 16137.3800      | 33.27          | -34.58      | 39.63    | -56.94      | -40.00      | 16.94       | Vertical |



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**Test Band = LTE Band 30 BW 5M\_ TM1**

**Test Channel = Mid Channel**

| Final Data List |                 |                |             |          |             |             |             |            |
|-----------------|-----------------|----------------|-------------|----------|-------------|-------------|-------------|------------|
| NO.             | Frequency [MHz] | Reading [dBμV] | Factor [dB] | AF[dB/m] | Level [dBm] | Limit [dBm] | Margin [dB] | Polarity   |
| 1               | 4615.6800       | 40.88          | -45.66      | 30.56    | -69.48      | -40.00      | 29.48       | Horizontal |
| 2               | 6923.5200       | 39.74          | -43.97      | 35.06    | -64.42      | -40.00      | 24.42       | Horizontal |
| 3               | 9231.3600       | 33.66          | -40.24      | 36.74    | -65.10      | -40.00      | 25.10       | Horizontal |
| 4               | 11539.2000      | 31.00          | -37.15      | 38.75    | -62.65      | -40.00      | 22.65       | Horizontal |
| 5               | 13846.5         | 35.21          | -35.96      | 40.62    | -55.38      | -40.00      | 15.38       | Horizontal |
| 6               | 16154.8800      | 34.05          | -34.60      | 39.68    | -56.12      | -40.00      | 16.12       | Horizontal |

| Final Data List |                 |                |             |          |             |             |             |          |
|-----------------|-----------------|----------------|-------------|----------|-------------|-------------|-------------|----------|
| NO.             | Frequency [MHz] | Reading [dBμV] | Factor [dB] | AF[dB/m] | Level [dBm] | Limit [dBm] | Margin [dB] | Polarity |
| 1               | 4615.6800       | 41.33          | -45.66      | 30.56    | -69.03      | -40.00      | 29.03       | Vertical |
| 2               | 6923.5200       | 39.19          | -43.97      | 35.06    | -64.97      | -40.00      | 24.97       | Vertical |
| 3               | 9231.3600       | 32.44          | -40.24      | 36.74    | -66.32      | -40.00      | 26.32       | Vertical |
| 4               | 11539.2000      | 30.27          | -37.15      | 38.75    | -63.38      | -40.00      | 23.38       | Vertical |
| 5               | 13847.0400      | 33.36          | -35.95      | 40.63    | -57.23      | -40.00      | 17.23       | Vertical |
| 6               | 16154.8800      | 34.46          | -34.60      | 39.68    | -55.71      | -40.00      | 15.71       | Vertical |



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**Test Band = LTE Band 30 BW 5M\_ TM1**  
**Test Channel = High Channel**

| Final Data List |                 |                |             |          |             |             |             |            |
|-----------------|-----------------|----------------|-------------|----------|-------------|-------------|-------------|------------|
| NO.             | Frequency [MHz] | Reading [dBμV] | Factor [dB] | AF[dB/m] | Level [dBm] | Limit [dBm] | Margin [dB] | Polarity   |
| 1               | 4620.6800       | 42.54          | -45.66      | 30.57    | -67.81      | -40.00      | 27.81       | Horizontal |
| 2               | 6931.0200       | 39.47          | -43.93      | 35.08    | -64.64      | -40.00      | 24.64       | Horizontal |
| 3               | 9241.3600       | 33.15          | -40.24      | 36.76    | -65.59      | -40.00      | 25.59       | Horizontal |
| 4               | 11551.7000      | 29.96          | -37.10      | 38.76    | -63.64      | -40.00      | 23.64       | Horizontal |
| 5               | 13862.0400      | 33.16          | -35.81      | 40.65    | -57.26      | -40.00      | 17.26       | Horizontal |
| 6               | 16172.3800      | 33.67          | -34.61      | 39.74    | -56.47      | -40.00      | 16.47       | Horizontal |

| Final Data List |                 |                |             |          |             |             |             |          |
|-----------------|-----------------|----------------|-------------|----------|-------------|-------------|-------------|----------|
| NO.             | Frequency [MHz] | Reading [dBμV] | Factor [dB] | AF[dB/m] | Level [dBm] | Limit [dBm] | Margin [dB] | Polarity |
| 1               | 4620.6800       | 41.23          | -45.66      | 30.57    | -69.12      | -40.00      | 29.12       | Vertical |
| 2               | 6931.0200       | 39.43          | -43.93      | 35.08    | -64.68      | -40.00      | 24.68       | Vertical |
| 3               | 9241.3600       | 32.82          | -40.24      | 36.76    | -65.92      | -40.00      | 25.92       | Vertical |
| 4               | 11551.7000      | 29.73          | -37.10      | 38.76    | -63.87      | -40.00      | 23.87       | Vertical |
| 5               | 13862.0400      | 33.23          | -35.81      | 40.65    | -57.19      | -40.00      | 17.19       | Vertical |
| 6               | 16172.3800      | 33.92          | -34.61      | 39.74    | -56.22      | -40.00      | 16.22       | 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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