

# Appendix B.15

## LTE Band 41



## Effective (Isotropic) Radiated Power Output Data

### Test Result

| Band   | Bandwidth | Modulation | Channel | RB Configuration | Result(dBm) | EIRP(dBm) | Limit(dBm) | Verdict |
|--------|-----------|------------|---------|------------------|-------------|-----------|------------|---------|
| Band41 | 5MHz      | QPSK       | 39675   | 1RB#0            | 23.06       | 25.46     | 33.00      | PASS    |
| Band41 | 5MHz      | QPSK       | 39675   | 1RB#12           | 23.12       | 25.52     | 33.00      | PASS    |
| Band41 | 5MHz      | QPSK       | 39675   | 1RB#24           | 23.14       | 25.54     | 33.00      | PASS    |
| Band41 | 5MHz      | QPSK       | 39675   | 25RB#0           | 22.21       | 24.61     | 33.00      | PASS    |
| Band41 | 5MHz      | QPSK       | 40620   | 1RB#0            | 22.93       | 25.33     | 33.00      | PASS    |
| Band41 | 5MHz      | QPSK       | 40620   | 1RB#12           | 22.98       | 25.38     | 33.00      | PASS    |
| Band41 | 5MHz      | QPSK       | 40620   | 1RB#24           | 22.97       | 25.37     | 33.00      | PASS    |
| Band41 | 5MHz      | QPSK       | 40620   | 25RB#0           | 21.95       | 24.35     | 33.00      | PASS    |
| Band41 | 5MHz      | QPSK       | 41565   | 1RB#0            | 22.92       | 25.32     | 33.00      | PASS    |
| Band41 | 5MHz      | QPSK       | 41565   | 1RB#12           | 22.90       | 25.3      | 33.00      | PASS    |
| Band41 | 5MHz      | QPSK       | 41565   | 1RB#24           | 22.89       | 25.29     | 33.00      | PASS    |
| Band41 | 5MHz      | QPSK       | 41565   | 25RB#0           | 21.92       | 24.32     | 33.00      | PASS    |
| Band41 | 5MHz      | 16QAM      | 39675   | 1RB#0            | 22.07       | 24.47     | 33.00      | PASS    |
| Band41 | 5MHz      | 16QAM      | 39675   | 1RB#12           | 22.10       | 24.5      | 33.00      | PASS    |
| Band41 | 5MHz      | 16QAM      | 39675   | 1RB#24           | 22.18       | 24.58     | 33.00      | PASS    |
| Band41 | 5MHz      | 16QAM      | 39675   | 25RB#0           | 21.19       | 23.59     | 33.00      | PASS    |
| Band41 | 5MHz      | 16QAM      | 40620   | 1RB#0            | 22.01       | 24.41     | 33.00      | PASS    |
| Band41 | 5MHz      | 16QAM      | 40620   | 1RB#12           | 22.08       | 24.48     | 33.00      | PASS    |
| Band41 | 5MHz      | 16QAM      | 40620   | 1RB#24           | 22.07       | 24.47     | 33.00      | PASS    |
| Band41 | 5MHz      | 16QAM      | 40620   | 25RB#0           | 20.98       | 23.38     | 33.00      | PASS    |
| Band41 | 5MHz      | 16QAM      | 41565   | 1RB#0            | 22.05       | 24.45     | 33.00      | PASS    |
| Band41 | 5MHz      | 16QAM      | 41565   | 1RB#12           | 22.07       | 24.47     | 33.00      | PASS    |
| Band41 | 5MHz      | 16QAM      | 41565   | 1RB#24           | 22.05       | 24.45     | 33.00      | PASS    |
| Band41 | 5MHz      | 16QAM      | 41565   | 25RB#0           | 20.99       | 23.39     | 33.00      | PASS    |
| Band41 | 10MHz     | QPSK       | 39700   | 1RB#0            | 23.20       | 25.6      | 33.00      | PASS    |
| Band41 | 10MHz     | QPSK       | 39700   | 1RB#24           | 23.18       | 25.58     | 33.00      | PASS    |
| Band41 | 10MHz     | QPSK       | 39700   | 1RB#49           | 23.15       | 25.55     | 33.00      | PASS    |



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|        |       |       |       |        |       |       |       |      |
|--------|-------|-------|-------|--------|-------|-------|-------|------|
| Band41 | 10MHz | QPSK  | 39700 | 50RB#0 | 22.23 | 24.63 | 33.00 | PASS |
| Band41 | 10MHz | QPSK  | 40620 | 1RB#0  | 22.95 | 25.35 | 33.00 | PASS |
| Band41 | 10MHz | QPSK  | 40620 | 1RB#24 | 22.97 | 25.37 | 33.00 | PASS |
| Band41 | 10MHz | QPSK  | 40620 | 1RB#49 | 23.02 | 25.42 | 33.00 | PASS |
| Band41 | 10MHz | QPSK  | 40620 | 50RB#0 | 21.98 | 24.38 | 33.00 | PASS |
| Band41 | 10MHz | QPSK  | 41540 | 1RB#0  | 22.93 | 25.33 | 33.00 | PASS |
| Band41 | 10MHz | QPSK  | 41540 | 1RB#24 | 22.90 | 25.3  | 33.00 | PASS |
| Band41 | 10MHz | QPSK  | 41540 | 1RB#49 | 22.92 | 25.32 | 33.00 | PASS |
| Band41 | 10MHz | QPSK  | 41540 | 50RB#0 | 21.91 | 24.31 | 33.00 | PASS |
| Band41 | 10MHz | 16QAM | 39700 | 1RB#0  | 22.23 | 24.63 | 33.00 | PASS |
| Band41 | 10MHz | 16QAM | 39700 | 1RB#24 | 22.21 | 24.61 | 33.00 | PASS |
| Band41 | 10MHz | 16QAM | 39700 | 1RB#49 | 22.19 | 24.59 | 33.00 | PASS |
| Band41 | 10MHz | 16QAM | 39700 | 50RB#0 | 21.22 | 23.62 | 33.00 | PASS |
| Band41 | 10MHz | 16QAM | 40620 | 1RB#0  | 22.02 | 24.42 | 33.00 | PASS |
| Band41 | 10MHz | 16QAM | 40620 | 1RB#24 | 22.09 | 24.49 | 33.00 | PASS |
| Band41 | 10MHz | 16QAM | 40620 | 1RB#49 | 22.12 | 24.52 | 33.00 | PASS |
| Band41 | 10MHz | 16QAM | 40620 | 50RB#0 | 21.03 | 23.43 | 33.00 | PASS |
| Band41 | 10MHz | 16QAM | 41540 | 1RB#0  | 22.10 | 24.5  | 33.00 | PASS |
| Band41 | 10MHz | 16QAM | 41540 | 1RB#24 | 22.09 | 24.49 | 33.00 | PASS |
| Band41 | 10MHz | 16QAM | 41540 | 1RB#49 | 22.03 | 24.43 | 33.00 | PASS |
| Band41 | 10MHz | 16QAM | 41540 | 50RB#0 | 21.02 | 23.42 | 33.00 | PASS |
| Band41 | 15MHz | QPSK  | 39725 | 1RB#0  | 23.17 | 25.57 | 33.00 | PASS |
| Band41 | 15MHz | QPSK  | 39725 | 1RB#38 | 23.13 | 25.53 | 33.00 | PASS |
| Band41 | 15MHz | QPSK  | 39725 | 1RB#74 | 23.16 | 25.56 | 33.00 | PASS |
| Band41 | 15MHz | QPSK  | 39725 | 75RB#0 | 22.19 | 24.59 | 33.00 | PASS |
| Band41 | 15MHz | QPSK  | 40620 | 1RB#0  | 23.03 | 25.43 | 33.00 | PASS |
| Band41 | 15MHz | QPSK  | 40620 | 1RB#38 | 23.01 | 25.41 | 33.00 | PASS |
| Band41 | 15MHz | QPSK  | 40620 | 1RB#74 | 23.06 | 25.46 | 33.00 | PASS |
| Band41 | 15MHz | QPSK  | 40620 | 75RB#0 | 21.98 | 24.38 | 33.00 | PASS |
| Band41 | 15MHz | QPSK  | 41515 | 1RB#0  | 22.91 | 25.31 | 33.00 | PASS |
| Band41 | 15MHz | QPSK  | 41515 | 1RB#38 | 22.93 | 25.33 | 33.00 | PASS |
| Band41 | 15MHz | QPSK  | 41515 | 1RB#74 | 22.89 | 25.29 | 33.00 | PASS |
| Band41 | 15MHz | QPSK  | 41515 | 75RB#0 | 21.93 | 24.33 | 33.00 | PASS |



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|        |       |       |       |         |       |       |       |      |
|--------|-------|-------|-------|---------|-------|-------|-------|------|
| Band41 | 15MHz | 16QAM | 39725 | 1RB#0   | 22.17 | 24.57 | 33.00 | PASS |
| Band41 | 15MHz | 16QAM | 39725 | 1RB#38  | 22.15 | 24.55 | 33.00 | PASS |
| Band41 | 15MHz | 16QAM | 39725 | 1RB#74  | 22.16 | 24.56 | 33.00 | PASS |
| Band41 | 15MHz | 16QAM | 39725 | 75RB#0  | 21.20 | 23.6  | 33.00 | PASS |
| Band41 | 15MHz | 16QAM | 40620 | 1RB#0   | 22.09 | 24.49 | 33.00 | PASS |
| Band41 | 15MHz | 16QAM | 40620 | 1RB#38  | 22.06 | 24.46 | 33.00 | PASS |
| Band41 | 15MHz | 16QAM | 40620 | 1RB#74  | 22.21 | 24.61 | 33.00 | PASS |
| Band41 | 15MHz | 16QAM | 40620 | 75RB#0  | 21.07 | 23.47 | 33.00 | PASS |
| Band41 | 15MHz | 16QAM | 41515 | 1RB#0   | 22.08 | 24.48 | 33.00 | PASS |
| Band41 | 15MHz | 16QAM | 41515 | 1RB#38  | 22.09 | 24.49 | 33.00 | PASS |
| Band41 | 15MHz | 16QAM | 41515 | 1RB#74  | 22.07 | 24.47 | 33.00 | PASS |
| Band41 | 15MHz | 16QAM | 41515 | 75RB#0  | 21.00 | 23.4  | 33.00 | PASS |
| Band41 | 20MHz | QPSK  | 39750 | 1RB#0   | 23.17 | 25.57 | 33.00 | PASS |
| Band41 | 20MHz | QPSK  | 39750 | 1RB#49  | 23.14 | 25.54 | 33.00 | PASS |
| Band41 | 20MHz | QPSK  | 39750 | 1RB#99  | 23.01 | 25.41 | 33.00 | PASS |
| Band41 | 20MHz | QPSK  | 39750 | 100RB#0 | 22.13 | 24.53 | 33.00 | PASS |
| Band41 | 20MHz | QPSK  | 40620 | 1RB#0   | 23.01 | 25.41 | 33.00 | PASS |
| Band41 | 20MHz | QPSK  | 40620 | 1RB#49  | 22.98 | 25.38 | 33.00 | PASS |
| Band41 | 20MHz | QPSK  | 40620 | 1RB#99  | 23.08 | 25.48 | 33.00 | PASS |
| Band41 | 20MHz | QPSK  | 40620 | 100RB#0 | 22.00 | 24.4  | 33.00 | PASS |
| Band41 | 20MHz | QPSK  | 41490 | 1RB#0   | 22.98 | 25.38 | 33.00 | PASS |
| Band41 | 20MHz | QPSK  | 41490 | 1RB#49  | 22.96 | 25.36 | 33.00 | PASS |
| Band41 | 20MHz | QPSK  | 41490 | 1RB#99  | 22.92 | 25.32 | 33.00 | PASS |
| Band41 | 20MHz | QPSK  | 41490 | 100RB#0 | 21.94 | 24.34 | 33.00 | PASS |
| Band41 | 20MHz | 16QAM | 39750 | 1RB#0   | 22.19 | 24.59 | 33.00 | PASS |
| Band41 | 20MHz | 16QAM | 39750 | 1RB#49  | 22.12 | 24.52 | 33.00 | PASS |
| Band41 | 20MHz | 16QAM | 39750 | 1RB#99  | 22.00 | 24.4  | 33.00 | PASS |
| Band41 | 20MHz | 16QAM | 39750 | 100RB#0 | 21.08 | 23.48 | 33.00 | PASS |
| Band41 | 20MHz | 16QAM | 40620 | 1RB#0   | 22.01 | 24.41 | 33.00 | PASS |
| Band41 | 20MHz | 16QAM | 40620 | 1RB#49  | 22.08 | 24.48 | 33.00 | PASS |
| Band41 | 20MHz | 16QAM | 40620 | 1RB#99  | 22.18 | 24.58 | 33.00 | PASS |
| Band41 | 20MHz | 16QAM | 40620 | 100RB#0 | 21.07 | 23.47 | 33.00 | PASS |
| Band41 | 20MHz | 16QAM | 41490 | 1RB#0   | 22.07 | 24.47 | 33.00 | PASS |



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|        |       |       |       |         |       |       |       |      |
|--------|-------|-------|-------|---------|-------|-------|-------|------|
| Band41 | 20MHz | 16QAM | 41490 | 1RB#49  | 22.12 | 24.52 | 33.00 | PASS |
| Band41 | 20MHz | 16QAM | 41490 | 1RB#99  | 22.10 | 24.5  | 33.00 | PASS |
| Band41 | 20MHz | 16QAM | 41490 | 100RB#0 | 21.03 | 23.43 | 33.00 | PASS |



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## Field Strength of Spurious Radiation

Test Band = LTE Band 41\_20MHz\_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               | 4994.1800       | 42.98          | -45.63      | 31.39    | -66.53      | -25.00      | 41.53       | Horizontal |
| 2               | 7491.2700       | 37.60          | -43.16      | 36.58    | -64.25      | -25.00      | 39.25       | Horizontal |
| 3               | 9988.3600       | 39.69          | -39.25      | 38.18    | -56.64      | -25.00      | 31.64       | Horizontal |
| 4               | 12485.4500      | 25.14          | -37.04      | 38.95    | -68.21      | -25.00      | 43.21       | Horizontal |
| 5               | 14982.5400      | 23.04          | -34.64      | 41.29    | -65.57      | -25.00      | 40.57       | Horizontal |
| 6               | 17479.6300      | 25.28          | -35.10      | 44.46    | -60.62      | -25.00      | 35.62       | Horizontal |

| Final Data List |                 |                |             |          |             |             |             |          |
|-----------------|-----------------|----------------|-------------|----------|-------------|-------------|-------------|----------|
| NO.             | Frequency [MHz] | Reading [dBμV] | Factor [dB] | AF[dB/m] | Level [dBm] | Limit [dBm] | Margin [dB] | Polarity |
| 1               | 4994.1800       | 42.39          | -45.63      | 31.39    | -67.12      | -25.00      | 42.12       | Vertical |
| 2               | 7491.2700       | 37.23          | -43.16      | 36.58    | -64.62      | -25.00      | 39.62       | Vertical |
| 3               | 9988.3600       | 32.34          | -39.25      | 38.18    | -63.99      | -25.00      | 38.99       | Vertical |
| 4               | 12485.4500      | 25.14          | -37.04      | 38.95    | -68.21      | -25.00      | 43.21       | Vertical |
| 5               | 14982.5400      | 23.38          | -34.64      | 41.29    | -65.23      | -25.00      | 40.23       | Vertical |
| 6               | 17479.6300      | 25.54          | -35.10      | 44.46    | -60.36      | -25.00      | 35.36       | Vertical |



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**Test Band = LTE Band 41\_20MHz\_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               | 5168.1800       | 40.82          | -45.31      | 31.80    | -67.94      | -25.00      | 42.94       | Horizontal |
| 2               | 7752.2700       | 37.25          | -42.69      | 36.70    | -64.00      | -25.00      | 39.00       | Horizontal |
| 3               | 10336.3600      | 41.86          | -39.06      | 38.37    | -54.09      | -25.00      | 29.09       | Horizontal |
| 4               | 12920.4500      | 27.32          | -37.16      | 39.08    | -66.02      | -25.00      | 41.02       | Horizontal |
| 5               | 15504.5400      | 24.20          | -35.35      | 40.24    | -66.17      | -25.00      | 41.17       | Horizontal |
| 6               | 17753           | 28.90          | -34.35      | 45.69    | -55.02      | -25.00      | 30.02       | Horizontal |

| Final Data List |                 |                |             |          |             |             |             |          |
|-----------------|-----------------|----------------|-------------|----------|-------------|-------------|-------------|----------|
| NO.             | Frequency [MHz] | Reading [dBμV] | Factor [dB] | AF[dB/m] | Level [dBm] | Limit [dBm] | Margin [dB] | Polarity |
| 1               | 5168.1800       | 40.24          | -45.31      | 31.80    | -68.52      | -25.00      | 43.52       | Vertical |
| 2               | 7752.2700       | 37.44          | -42.69      | 36.70    | -63.81      | -25.00      | 38.81       | Vertical |
| 3               | 10336.3600      | 38.93          | -39.06      | 38.37    | -57.02      | -25.00      | 32.02       | Vertical |
| 4               | 12920.4500      | 26.57          | -37.16      | 39.08    | -66.77      | -25.00      | 41.77       | Vertical |
| 5               | 15504.5400      | 23.65          | -35.35      | 40.24    | -66.72      | -25.00      | 41.72       | Vertical |
| 6               | 17685           | 28.04          | -33.91      | 45.38    | -55.75      | -25.00      | 30.75       | Vertical |



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**Test Band = LTE Band 41\_20MHz\_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               | 5342.1800       | 39.60          | -45.18      | 32.22    | -68.62      | -25.00      | 43.62       | Horizontal |
| 2               | 8013.2700       | 36.49          | -42.22      | 36.79    | -64.19      | -25.00      | 39.19       | Horizontal |
| 3               | 10684.3600      | 36.44          | -37.97      | 38.54    | -58.25      | -25.00      | 33.25       | Horizontal |
| 4               | 13355.4500      | 25.18          | -36.56      | 39.74    | -66.90      | -25.00      | 41.90       | Horizontal |
| 5               | 16026.5400      | 25.14          | -34.85      | 39.28    | -65.69      | -25.00      | 40.69       | Horizontal |
| 6               | 17934           | 29.61          | -34.53      | 46.50    | -53.68      | -25.00      | 28.68       | Horizontal |
| 7               | 17934           | 29.61          | -34.53      | 46.50    | -53.68      | -25.00      | 28.68       | Horizontal |

| Final Data List |                 |                |             |          |             |             |             |          |
|-----------------|-----------------|----------------|-------------|----------|-------------|-------------|-------------|----------|
| NO.             | Frequency [MHz] | Reading [dBμV] | Factor [dB] | AF[dB/m] | Level [dBm] | Limit [dBm] | Margin [dB] | Polarity |
| 1               | 5342.1800       | 40.02          | -45.18      | 32.22    | -68.20      | -25.00      | 43.20       | Vertical |
| 2               | 8013.2700       | 35.93          | -42.22      | 36.79    | -64.75      | -25.00      | 39.75       | Vertical |
| 3               | 10684.3600      | 34.14          | -37.97      | 38.54    | -60.55      | -25.00      | 35.55       | Vertical |
| 4               | 13355.4500      | 25.09          | -36.56      | 39.74    | -66.99      | -25.00      | 41.99       | Vertical |
| 5               | 16026.5400      | 25.45          | -34.85      | 39.28    | -65.38      | -25.00      | 40.38       | Vertical |
| 6               | 17919           | 29.25          | -34.52      | 46.44    | -54.10      | -25.00      | 29.10       | 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---

