

Appendix B.15

LTE Band 41



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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 |
|--------|-----------|------------|---------|------------------|-------------|-----------|------------|---------|
| Band41 | 5MHz | QPSK | 39675 | 1RB#0 | 23.06 | 23.84 | 33.00 | PASS |
| Band41 | 5MHz | QPSK | 39675 | 1RB#12 | 23.12 | 23.90 | 33.00 | PASS |
| Band41 | 5MHz | QPSK | 39675 | 1RB#24 | 23.14 | 23.92 | 33.00 | PASS |
| Band41 | 5MHz | QPSK | 39675 | 25RB#0 | 22.21 | 22.99 | 33.00 | PASS |
| Band41 | 5MHz | QPSK | 40620 | 1RB#0 | 22.93 | 23.71 | 33.00 | PASS |
| Band41 | 5MHz | QPSK | 40620 | 1RB#12 | 22.98 | 23.76 | 33.00 | PASS |
| Band41 | 5MHz | QPSK | 40620 | 1RB#24 | 22.97 | 23.75 | 33.00 | PASS |
| Band41 | 5MHz | QPSK | 40620 | 25RB#0 | 21.95 | 22.73 | 33.00 | PASS |
| Band41 | 5MHz | QPSK | 41565 | 1RB#0 | 22.92 | 23.70 | 33.00 | PASS |
| Band41 | 5MHz | QPSK | 41565 | 1RB#12 | 22.90 | 23.68 | 33.00 | PASS |
| Band41 | 5MHz | QPSK | 41565 | 1RB#24 | 22.89 | 23.67 | 33.00 | PASS |
| Band41 | 5MHz | QPSK | 41565 | 25RB#0 | 21.92 | 22.70 | 33.00 | PASS |
| Band41 | 5MHz | 16QAM | 39675 | 1RB#0 | 22.07 | 22.85 | 33.00 | PASS |
| Band41 | 5MHz | 16QAM | 39675 | 1RB#12 | 22.10 | 22.88 | 33.00 | PASS |
| Band41 | 5MHz | 16QAM | 39675 | 1RB#24 | 22.18 | 22.96 | 33.00 | PASS |
| Band41 | 5MHz | 16QAM | 39675 | 25RB#0 | 21.19 | 21.97 | 33.00 | PASS |
| Band41 | 5MHz | 16QAM | 40620 | 1RB#0 | 22.01 | 22.79 | 33.00 | PASS |
| Band41 | 5MHz | 16QAM | 40620 | 1RB#12 | 22.08 | 22.86 | 33.00 | PASS |
| Band41 | 5MHz | 16QAM | 40620 | 1RB#24 | 22.07 | 22.85 | 33.00 | PASS |
| Band41 | 5MHz | 16QAM | 40620 | 25RB#0 | 20.98 | 21.76 | 33.00 | PASS |
| Band41 | 5MHz | 16QAM | 41565 | 1RB#0 | 22.05 | 22.83 | 33.00 | PASS |
| Band41 | 5MHz | 16QAM | 41565 | 1RB#12 | 22.07 | 22.85 | 33.00 | PASS |
| Band41 | 5MHz | 16QAM | 41565 | 1RB#24 | 22.05 | 22.83 | 33.00 | PASS |
| Band41 | 5MHz | 16QAM | 41565 | 25RB#0 | 20.99 | 21.77 | 33.00 | PASS |
| Band41 | 10MHz | QPSK | 39700 | 1RB#0 | 23.20 | 23.98 | 33.00 | PASS |



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| | | | | | | | | |
|--------|-------|-------|-------|--------|-------|-------|-------|------|
| Band41 | 10MHz | QPSK | 39700 | 1RB#24 | 23.18 | 23.96 | 33.00 | PASS |
| Band41 | 10MHz | QPSK | 39700 | 1RB#49 | 23.15 | 23.93 | 33.00 | PASS |
| Band41 | 10MHz | QPSK | 39700 | 50RB#0 | 22.23 | 23.01 | 33.00 | PASS |
| Band41 | 10MHz | QPSK | 40620 | 1RB#0 | 22.95 | 23.73 | 33.00 | PASS |
| Band41 | 10MHz | QPSK | 40620 | 1RB#24 | 22.97 | 23.75 | 33.00 | PASS |
| Band41 | 10MHz | QPSK | 40620 | 1RB#49 | 23.02 | 23.80 | 33.00 | PASS |
| Band41 | 10MHz | QPSK | 40620 | 50RB#0 | 21.98 | 22.76 | 33.00 | PASS |
| Band41 | 10MHz | QPSK | 41540 | 1RB#0 | 22.93 | 23.71 | 33.00 | PASS |
| Band41 | 10MHz | QPSK | 41540 | 1RB#24 | 22.90 | 23.68 | 33.00 | PASS |
| Band41 | 10MHz | QPSK | 41540 | 1RB#49 | 22.92 | 23.70 | 33.00 | PASS |
| Band41 | 10MHz | QPSK | 41540 | 50RB#0 | 21.91 | 22.69 | 33.00 | PASS |
| Band41 | 10MHz | 16QAM | 39700 | 1RB#0 | 22.23 | 23.01 | 33.00 | PASS |
| Band41 | 10MHz | 16QAM | 39700 | 1RB#24 | 22.21 | 22.99 | 33.00 | PASS |
| Band41 | 10MHz | 16QAM | 39700 | 1RB#49 | 22.19 | 22.97 | 33.00 | PASS |
| Band41 | 10MHz | 16QAM | 39700 | 50RB#0 | 21.22 | 22.00 | 33.00 | PASS |
| Band41 | 10MHz | 16QAM | 40620 | 1RB#0 | 22.02 | 22.80 | 33.00 | PASS |
| Band41 | 10MHz | 16QAM | 40620 | 1RB#24 | 22.09 | 22.87 | 33.00 | PASS |
| Band41 | 10MHz | 16QAM | 40620 | 1RB#49 | 22.12 | 22.90 | 33.00 | PASS |
| Band41 | 10MHz | 16QAM | 40620 | 50RB#0 | 21.03 | 21.81 | 33.00 | PASS |
| Band41 | 10MHz | 16QAM | 41540 | 1RB#0 | 22.10 | 22.88 | 33.00 | PASS |
| Band41 | 10MHz | 16QAM | 41540 | 1RB#24 | 22.09 | 22.87 | 33.00 | PASS |
| Band41 | 10MHz | 16QAM | 41540 | 1RB#49 | 22.03 | 22.81 | 33.00 | PASS |
| Band41 | 10MHz | 16QAM | 41540 | 50RB#0 | 21.02 | 21.80 | 33.00 | PASS |
| Band41 | 15MHz | QPSK | 39725 | 1RB#0 | 23.17 | 23.95 | 33.00 | PASS |
| Band41 | 15MHz | QPSK | 39725 | 1RB#38 | 23.13 | 23.91 | 33.00 | PASS |
| Band41 | 15MHz | QPSK | 39725 | 1RB#74 | 23.16 | 23.94 | 33.00 | PASS |
| Band41 | 15MHz | QPSK | 39725 | 75RB#0 | 22.19 | 22.97 | 33.00 | PASS |
| Band41 | 15MHz | QPSK | 40620 | 1RB#0 | 23.03 | 23.81 | 33.00 | PASS |
| Band41 | 15MHz | QPSK | 40620 | 1RB#38 | 23.01 | 23.79 | 33.00 | PASS |
| Band41 | 15MHz | QPSK | 40620 | 1RB#74 | 23.06 | 23.84 | 33.00 | PASS |
| Band41 | 15MHz | QPSK | 40620 | 75RB#0 | 21.98 | 22.76 | 33.00 | PASS |
| Band41 | 15MHz | QPSK | 41515 | 1RB#0 | 22.91 | 23.69 | 33.00 | PASS |
| Band41 | 15MHz | QPSK | 41515 | 1RB#38 | 22.93 | 23.71 | 33.00 | PASS |



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| | | | | | | | | |
|--------|-------|-------|-------|---------|-------|-------|-------|------|
| Band41 | 15MHz | QPSK | 41515 | 1RB#74 | 22.89 | 23.67 | 33.00 | PASS |
| Band41 | 15MHz | QPSK | 41515 | 75RB#0 | 21.93 | 22.71 | 33.00 | PASS |
| Band41 | 15MHz | 16QAM | 39725 | 1RB#0 | 22.17 | 22.95 | 33.00 | PASS |
| Band41 | 15MHz | 16QAM | 39725 | 1RB#38 | 22.15 | 22.93 | 33.00 | PASS |
| Band41 | 15MHz | 16QAM | 39725 | 1RB#74 | 22.16 | 22.94 | 33.00 | PASS |
| Band41 | 15MHz | 16QAM | 39725 | 75RB#0 | 21.20 | 21.98 | 33.00 | PASS |
| Band41 | 15MHz | 16QAM | 40620 | 1RB#0 | 22.09 | 22.87 | 33.00 | PASS |
| Band41 | 15MHz | 16QAM | 40620 | 1RB#38 | 22.06 | 22.84 | 33.00 | PASS |
| Band41 | 15MHz | 16QAM | 40620 | 1RB#74 | 22.21 | 22.99 | 33.00 | PASS |
| Band41 | 15MHz | 16QAM | 40620 | 75RB#0 | 21.07 | 21.85 | 33.00 | PASS |
| Band41 | 15MHz | 16QAM | 41515 | 1RB#0 | 22.08 | 22.86 | 33.00 | PASS |
| Band41 | 15MHz | 16QAM | 41515 | 1RB#38 | 22.09 | 22.87 | 33.00 | PASS |
| Band41 | 15MHz | 16QAM | 41515 | 1RB#74 | 22.07 | 22.85 | 33.00 | PASS |
| Band41 | 15MHz | 16QAM | 41515 | 75RB#0 | 21.00 | 21.78 | 33.00 | PASS |
| Band41 | 20MHz | QPSK | 39750 | 1RB#0 | 23.17 | 23.95 | 33.00 | PASS |
| Band41 | 20MHz | QPSK | 39750 | 1RB#49 | 23.14 | 23.92 | 33.00 | PASS |
| Band41 | 20MHz | QPSK | 39750 | 1RB#99 | 23.01 | 23.79 | 33.00 | PASS |
| Band41 | 20MHz | QPSK | 39750 | 100RB#0 | 22.13 | 22.91 | 33.00 | PASS |
| Band41 | 20MHz | QPSK | 40620 | 1RB#0 | 23.01 | 23.79 | 33.00 | PASS |
| Band41 | 20MHz | QPSK | 40620 | 1RB#49 | 22.98 | 23.76 | 33.00 | PASS |
| Band41 | 20MHz | QPSK | 40620 | 1RB#99 | 23.08 | 23.86 | 33.00 | PASS |
| Band41 | 20MHz | QPSK | 40620 | 100RB#0 | 22.00 | 22.78 | 33.00 | PASS |
| Band41 | 20MHz | QPSK | 41490 | 1RB#0 | 22.98 | 23.76 | 33.00 | PASS |
| Band41 | 20MHz | QPSK | 41490 | 1RB#49 | 22.96 | 23.74 | 33.00 | PASS |
| Band41 | 20MHz | QPSK | 41490 | 1RB#99 | 22.92 | 23.70 | 33.00 | PASS |
| Band41 | 20MHz | QPSK | 41490 | 100RB#0 | 21.94 | 22.72 | 33.00 | PASS |
| Band41 | 20MHz | 16QAM | 39750 | 1RB#0 | 22.19 | 22.97 | 33.00 | PASS |
| Band41 | 20MHz | 16QAM | 39750 | 1RB#49 | 22.12 | 22.90 | 33.00 | PASS |
| Band41 | 20MHz | 16QAM | 39750 | 1RB#99 | 22.00 | 22.78 | 33.00 | PASS |
| Band41 | 20MHz | 16QAM | 39750 | 100RB#0 | 21.08 | 21.86 | 33.00 | PASS |
| Band41 | 20MHz | 16QAM | 40620 | 1RB#0 | 22.01 | 22.79 | 33.00 | PASS |
| Band41 | 20MHz | 16QAM | 40620 | 1RB#49 | 22.08 | 22.86 | 33.00 | PASS |
| Band41 | 20MHz | 16QAM | 40620 | 1RB#99 | 22.18 | 22.96 | 33.00 | PASS |



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Report No.: SEWM2304000133RG10

Rev.: 01

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| | | | | | | | | |
|--------|-------|-------|-------|---------|-------|-------|-------|------|
| Band41 | 20MHz | 16QAM | 40620 | 100RB#0 | 21.07 | 21.85 | 33.00 | PASS |
| Band41 | 20MHz | 16QAM | 41490 | 1RB#0 | 22.07 | 22.85 | 33.00 | PASS |
| Band41 | 20MHz | 16QAM | 41490 | 1RB#49 | 22.12 | 22.90 | 33.00 | PASS |
| Band41 | 20MHz | 16QAM | 41490 | 1RB#99 | 22.10 | 22.88 | 33.00 | PASS |
| Band41 | 20MHz | 16QAM | 41490 | 100RB#0 | 21.03 | 21.81 | 33.00 | PASS |



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Field Strength of Spurious Radiation

Test Band = LTE_41_20MHz_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 | 2990.4434 | 37.97 | -16.81 | 29.70 | -44.40 | -25.00 | 19.40 | 263 | 0 | Horizontal |
| 2 | 4993.8798 | 63.03 | -46.94 | 33.11 | -46.06 | -25.00 | 21.06 | 325 | 339 | Horizontal |
| 3 | 7474.979 | 49.90 | -43.36 | 36.65 | -52.07 | -25.00 | 27.07 | 149 | 302 | Horizontal |
| 4 | 9988.4795 | 49.24 | -41.20 | 38.65 | -48.57 | -25.00 | 23.57 | 226 | 169 | Horizontal |
| 5 | 11915.1566 | 47.60 | -37.95 | 39.48 | -46.13 | -25.00 | 21.13 | 332 | 71 | Horizontal |
| 6 | 14982.4793 | 47.24 | -39.05 | 39.97 | -47.10 | -25.00 | 22.10 | 189 | 159 | 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 | 2984.8872 | 38.10 | -16.82 | 29.65 | -44.33 | -25.00 | 19.33 | 278 | 285 | Vertical |
| 2 | 4994.4798 | 71.54 | -46.94 | 33.11 | -37.55 | -25.00 | 12.55 | 226 | 212 | Vertical |
| 3 | 7491.1796 | 58.00 | -43.24 | 36.62 | -43.88 | -25.00 | 18.88 | 325 | 277 | Vertical |
| 4 | 9988.4795 | 59.58 | -41.20 | 38.65 | -38.23 | -25.00 | 13.23 | 324 | 109 | Vertical |
| 5 | 14982.4793 | 52.43 | -39.05 | 39.97 | -41.91 | -25.00 | 16.91 | 254 | 109 | Vertical |
| 6 | 17993.3997 | 49.97 | -44.03 | 42.76 | -46.56 | -25.00 | 21.56 | 118 | 157 | Vertical |



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Test Band = LTE_41_20MHz_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 | 2992.4436 | 38.04 | -16.81 | 29.72 | -44.31 | -25.00 | 19.31 | 263 | 69 | Horizontal |
| 2 | 5168.4867 | 66.78 | -46.80 | 33.12 | -42.16 | -25.00 | 17.16 | 221 | 141 | Horizontal |
| 3 | 8409.8164 | 49.81 | -43.06 | 37.68 | -50.83 | -25.00 | 25.83 | 178 | 298 | Horizontal |
| 4 | 11184.9274 | 48.00 | -39.24 | 39.65 | -46.85 | -25.00 | 21.85 | 398 | 239 | Horizontal |
| 5 | 13376.215 | 46.96 | -39.18 | 40.30 | -47.18 | -25.00 | 22.18 | 225 | 93 | Horizontal |
| 6 | 17917.1967 | 49.05 | -42.98 | 42.30 | -46.89 | -25.00 | 21.89 | 254 | 206 | 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 | 2997.1108 | 37.78 | -16.80 | 29.77 | -44.51 | -25.00 | 19.51 | 332 | 314 | Vertical |
| 2 | 4197.6479 | 51.87 | -48.53 | 31.48 | -60.44 | -25.00 | 35.44 | 257 | 136 | Vertical |
| 3 | 5168.4867 | 72.37 | -46.80 | 33.12 | -36.57 | -25.00 | 11.57 | 148 | 191 | Vertical |
| 4 | 7752.1901 | 56.81 | -43.50 | 36.81 | -45.14 | -25.00 | 20.14 | 229 | 300 | Vertical |
| 5 | 10335.8934 | 56.72 | -40.93 | 38.66 | -40.81 | -25.00 | 15.81 | 362 | 49 | Vertical |
| 6 | 15504.5002 | 50.64 | -39.67 | 39.10 | -45.19 | -25.00 | 20.19 | 254 | 212 | Vertical |



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Test Band = LTE_41_20MHz_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 | 2994.8883 | 38.11 | -16.80 | 29.75 | -44.20 | -25.00 | 19.20 | 274 | 70 | Horizontal |
| 2 | 4033.8414 | 53.06 | -49.28 | 30.96 | -60.52 | -25.00 | 35.52 | 254 | 246 | Horizontal |
| 3 | 5341.8937 | 62.94 | -46.23 | 33.20 | -45.35 | -25.00 | 20.35 | 188 | 88 | Horizontal |
| 4 | 7471.3789 | 50.02 | -43.38 | 36.66 | -51.96 | -25.00 | 26.96 | 263 | 342 | Horizontal |
| 5 | 10684.5074 | 54.65 | -40.58 | 39.47 | -41.72 | -25.00 | 16.72 | 332 | 360 | Horizontal |
| 6 | 17994.5998 | 49.25 | -44.06 | 42.77 | -47.30 | -25.00 | 22.30 | 259 | 55 | 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 | 2994.4438 | 37.75 | -16.80 | 29.74 | -44.57 | -25.00 | 19.57 | 188 | 352 | Vertical |
| 2 | 4239.0496 | 51.67 | -48.51 | 31.97 | -60.13 | -25.00 | 35.13 | 263 | 290 | Vertical |
| 3 | 5342.4937 | 72.19 | -46.22 | 33.20 | -36.09 | -25.00 | 11.09 | 332 | 198 | Vertical |
| 4 | 8013.2005 | 53.45 | -43.34 | 37.45 | -47.70 | -25.00 | 22.70 | 254 | 248 | Vertical |
| 5 | 10683.9074 | 60.89 | -40.58 | 39.47 | -35.48 | -25.00 | 10.48 | 189 | 56 | Vertical |
| 6 | 13355.8142 | 50.51 | -39.36 | 40.30 | -43.81 | -25.00 | 18.81 | 263 | 301 | 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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