

# 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            | 23.74       | 21.39    | 34.77      | PASS    |
| Band17 | 5MHz      | QPSK       | 23755   | 1RB#12           | 23.77       | 21.42    | 34.77      | PASS    |
| Band17 | 5MHz      | QPSK       | 23755   | 1RB#24           | 23.78       | 21.43    | 34.77      | PASS    |
| Band17 | 5MHz      | QPSK       | 23755   | 25RB#0           | 22.96       | 20.61    | 34.77      | PASS    |
| Band17 | 5MHz      | QPSK       | 23790   | 1RB#0            | 23.83       | 21.48    | 34.77      | PASS    |
| Band17 | 5MHz      | QPSK       | 23790   | 1RB#12           | 23.79       | 21.44    | 34.77      | PASS    |
| Band17 | 5MHz      | QPSK       | 23790   | 1RB#24           | 23.79       | 21.44    | 34.77      | PASS    |
| Band17 | 5MHz      | QPSK       | 23790   | 25RB#0           | 22.90       | 20.55    | 34.77      | PASS    |
| Band17 | 5MHz      | QPSK       | 23825   | 1RB#0            | 23.79       | 21.44    | 34.77      | PASS    |
| Band17 | 5MHz      | QPSK       | 23825   | 1RB#12           | 23.84       | 21.49    | 34.77      | PASS    |
| Band17 | 5MHz      | QPSK       | 23825   | 1RB#24           | 23.80       | 21.45    | 34.77      | PASS    |
| Band17 | 5MHz      | QPSK       | 23825   | 25RB#0           | 22.87       | 20.52    | 34.77      | PASS    |
| Band17 | 5MHz      | 16QAM      | 23755   | 1RB#0            | 22.98       | 20.63    | 34.77      | PASS    |
| Band17 | 5MHz      | 16QAM      | 23755   | 1RB#12           | 23.04       | 20.69    | 34.77      | PASS    |
| Band17 | 5MHz      | 16QAM      | 23755   | 1RB#24           | 23.01       | 20.66    | 34.77      | PASS    |
| Band17 | 5MHz      | 16QAM      | 23755   | 25RB#0           | 21.94       | 19.59    | 34.77      | PASS    |
| Band17 | 5MHz      | 16QAM      | 23790   | 1RB#0            | 23.12       | 20.77    | 34.77      | PASS    |
| Band17 | 5MHz      | 16QAM      | 23790   | 1RB#12           | 22.93       | 20.58    | 34.77      | PASS    |
| Band17 | 5MHz      | 16QAM      | 23790   | 1RB#24           | 23.10       | 20.75    | 34.77      | PASS    |
| Band17 | 5MHz      | 16QAM      | 23790   | 25RB#0           | 21.93       | 19.58    | 34.77      | PASS    |
| Band17 | 5MHz      | 16QAM      | 23825   | 1RB#0            | 23.06       | 20.71    | 34.77      | PASS    |
| Band17 | 5MHz      | 16QAM      | 23825   | 1RB#12           | 23.09       | 20.74    | 34.77      | PASS    |
| Band17 | 5MHz      | 16QAM      | 23825   | 1RB#24           | 23.16       | 20.81    | 34.77      | PASS    |
| Band17 | 5MHz      | 16QAM      | 23825   | 25RB#0           | 21.94       | 19.59    | 34.77      | PASS    |
| Band17 | 10MHz     | QPSK       | 23780   | 1RB#0            | 23.78       | 21.43    | 34.77      | PASS    |
| Band17 | 10MHz     | QPSK       | 23780   | 1RB#24           | 23.80       | 21.45    | 34.77      | PASS    |
| Band17 | 10MHz     | QPSK       | 23780   | 1RB#49           | 23.85       | 21.50    | 34.77      | PASS    |



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|        |       |       |       |        |       |       |       |      |
|--------|-------|-------|-------|--------|-------|-------|-------|------|
| Band17 | 10MHz | QPSK  | 23780 | 50RB#0 | 22.92 | 20.57 | 34.77 | PASS |
| Band17 | 10MHz | QPSK  | 23790 | 1RB#0  | 23.75 | 21.40 | 34.77 | PASS |
| Band17 | 10MHz | QPSK  | 23790 | 1RB#24 | 23.80 | 21.45 | 34.77 | PASS |
| Band17 | 10MHz | QPSK  | 23790 | 1RB#49 | 23.81 | 21.46 | 34.77 | PASS |
| Band17 | 10MHz | QPSK  | 23790 | 50RB#0 | 22.96 | 20.61 | 34.77 | PASS |
| Band17 | 10MHz | QPSK  | 23800 | 1RB#0  | 23.80 | 21.45 | 34.77 | PASS |
| Band17 | 10MHz | QPSK  | 23800 | 1RB#24 | 23.81 | 21.46 | 34.77 | PASS |
| Band17 | 10MHz | QPSK  | 23800 | 1RB#49 | 23.78 | 21.43 | 34.77 | PASS |
| Band17 | 10MHz | QPSK  | 23800 | 50RB#0 | 22.89 | 20.54 | 34.77 | PASS |
| Band17 | 10MHz | 16QAM | 23780 | 1RB#0  | 23.06 | 20.71 | 34.77 | PASS |
| Band17 | 10MHz | 16QAM | 23780 | 1RB#24 | 23.14 | 20.79 | 34.77 | PASS |
| Band17 | 10MHz | 16QAM | 23780 | 1RB#49 | 23.10 | 20.75 | 34.77 | PASS |
| Band17 | 10MHz | 16QAM | 23780 | 50RB#0 | 21.95 | 19.60 | 34.77 | PASS |
| Band17 | 10MHz | 16QAM | 23790 | 1RB#0  | 23.00 | 20.65 | 34.77 | PASS |
| Band17 | 10MHz | 16QAM | 23790 | 1RB#24 | 23.04 | 20.69 | 34.77 | PASS |
| Band17 | 10MHz | 16QAM | 23790 | 1RB#49 | 22.99 | 20.64 | 34.77 | PASS |
| Band17 | 10MHz | 16QAM | 23790 | 50RB#0 | 21.95 | 19.60 | 34.77 | PASS |
| Band17 | 10MHz | 16QAM | 23800 | 1RB#0  | 23.07 | 20.72 | 34.77 | PASS |
| Band17 | 10MHz | 16QAM | 23800 | 1RB#24 | 23.04 | 20.69 | 34.77 | PASS |
| Band17 | 10MHz | 16QAM | 23800 | 1RB#49 | 23.11 | 20.76 | 34.77 | PASS |
| Band17 | 10MHz | 16QAM | 23800 | 50RB#0 | 21.92 | 19.57 | 34.77 | PASS |



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### Field Strength of Spurious Radiation

Test Band = LTE\_17\_10MHz\_TM1

Test Channel = LCH

| Final Data List |                |                   |                |              |                |                |                |                |              |            |
|-----------------|----------------|-------------------|----------------|--------------|----------------|----------------|----------------|----------------|--------------|------------|
| NO.             | Freq.<br>[MHz] | Reading<br>[dBμV] | Factor<br>[dB] | AF<br>[dB/m] | Level<br>[dBm] | Limit<br>[dBm] | Margin<br>[dB] | Height<br>[cm] | Angle<br>[°] | Polarity   |
| 1               | 1409.0705      | 75.22             | -53.63         | 25.78        | -47.89         | -13.00         | 34.89          | 152            | 247          | Horizontal |
| 2               | 2541.3271      | 53.57             | -50.95         | 28.25        | -64.39         | -13.00         | 51.39          | 149            | 348          | Horizontal |
| 3               | 3971.0486      | 51.84             | -47.92         | 30.98        | -60.36         | -13.00         | 47.36          | 363            | 152          | Horizontal |
| 4               | 5146.9573      | 51.21             | -44.30         | 33.59        | -54.76         | -13.00         | 41.76          | 215            | 309          | Horizontal |
| 5               | 7103.6552      | 49.87             | -43.30         | 36.91        | -51.78         | -13.00         | 38.78          | 184            | 198          | Horizontal |
| 6               | 9108.0554      | 48.72             | -40.80         | 38.73        | -48.61         | -13.00         | 35.61          | 143            | 246          | Horizontal |

| Final Data List |                |                   |                |              |                |                |                |                |              |          |
|-----------------|----------------|-------------------|----------------|--------------|----------------|----------------|----------------|----------------|--------------|----------|
| NO.             | Freq.<br>[MHz] | Reading<br>[dBμV] | Factor<br>[dB] | AF<br>[dB/m] | Level<br>[dBm] | Limit<br>[dBm] | Margin<br>[dB] | Height<br>[cm] | Angle<br>[°] | Polarity |
| 1               | 1409.0705      | 71.32             | -53.63         | 25.78        | -51.79         | -13.00         | 38.79          | 136            | 228          | Vertical |
| 2               | 2532.3266      | 53.64             | -51.01         | 28.19        | -64.44         | -13.00         | 51.44          | 184            | 226          | Vertical |
| 3               | 3974.1987      | 52.70             | -47.93         | 31.00        | -59.49         | -13.00         | 46.49          | 194            | 228          | Vertical |
| 4               | 5142.0071      | 51.82             | -44.28         | 33.58        | -54.14         | -13.00         | 41.14          | 346            | 228          | Vertical |
| 5               | 7369.1685      | 50.11             | -42.69         | 36.86        | -50.98         | -13.00         | 37.98          | 216            | 208          | Vertical |
| 6               | 9542.3271      | 48.05             | -39.91         | 39.12        | -48.00         | -13.00         | 35.00          | 184            | 26           | Vertical |



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Test Band = LTE\_17\_10MHz\_TM1

Test Channel = MCH

| Final Data List |                |                   |                |              |                |                |                |                |              |            |
|-----------------|----------------|-------------------|----------------|--------------|----------------|----------------|----------------|----------------|--------------|------------|
| NO.             | Freq.<br>[MHz] | Reading<br>[dBμV] | Factor<br>[dB] | AF<br>[dB/m] | Level<br>[dBm] | Limit<br>[dBm] | Margin<br>[dB] | Height<br>[cm] | Angle<br>[°] | Polarity   |
| 1               | 1411.3206      | 76.36             | -53.61         | 25.78        | -46.73         | -13.00         | 33.73          | 353            | 307          | Horizontal |
| 2               | 2116.9558      | 55.49             | -52.14         | 27.47        | -64.44         | -13.00         | 51.44          | 219            | 120          | Horizontal |
| 3               | 3274.4137      | 52.74             | -49.81         | 30.65        | -61.68         | -13.00         | 48.68          | 226            | 277          | Horizontal |
| 4               | 5119.956       | 50.91             | -44.15         | 33.54        | -54.96         | -13.00         | 41.96          | 184            | 133          | Horizontal |
| 5               | 7373.6687      | 49.70             | -42.67         | 36.85        | -51.38         | -13.00         | 38.38          | 128            | 188          | Horizontal |
| 6               | 9731.7866      | 47.61             | -39.01         | 38.76        | -47.90         | -13.00         | 34.90          | 143            | 213          | Horizontal |

| Final Data List |                |                   |                |              |                |                |                |                |              |          |
|-----------------|----------------|-------------------|----------------|--------------|----------------|----------------|----------------|----------------|--------------|----------|
| NO.             | Freq.<br>[MHz] | Reading<br>[dBμV] | Factor<br>[dB] | AF<br>[dB/m] | Level<br>[dBm] | Limit<br>[dBm] | Margin<br>[dB] | Height<br>[cm] | Angle<br>[°] | Polarity |
| 1               | 1411.3206      | 73.03             | -53.61         | 25.78        | -50.06         | -13.00         | 37.06          | 259            | 231          | Vertical |
| 2               | 2112.9056      | 54.13             | -52.13         | 27.47        | -65.79         | -13.00         | 52.79          | 308            | 300          | Vertical |
| 3               | 3147.5074      | 52.76             | -50.05         | 30.29        | -62.26         | -13.00         | 49.26          | 365            | 351          | Vertical |
| 4               | 5083.5042      | 51.03             | -44.24         | 33.47        | -55.00         | -13.00         | 42.00          | 184            | 30           | Vertical |
| 5               | 7355.6678      | 49.75             | -42.77         | 36.89        | -51.39         | -13.00         | 38.39          | 235            | 358          | Vertical |
| 6               | 9747.5374      | 46.98             | -38.87         | 38.80        | -48.35         | -13.00         | 35.35          | 184            | 182          | Vertical |



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**Test Band = LTE\_17\_10MHz\_TM1**  
**Test Channel = HCH**

| Final Data List |                |                   |                |              |                |                |                |                |              |            |
|-----------------|----------------|-------------------|----------------|--------------|----------------|----------------|----------------|----------------|--------------|------------|
| NO.             | Freq.<br>[MHz] | Reading<br>[dBμV] | Factor<br>[dB] | AF<br>[dB/m] | Level<br>[dBm] | Limit<br>[dBm] | Margin<br>[dB] | Height<br>[cm] | Angle<br>[°] | Polarity   |
| 1               | 1413.1207      | 75.17             | -53.59         | 25.77        | -47.91         | -13.00         | 34.91          | 194            | 295          | Horizontal |
| 2               | 2119.656       | 55.73             | -52.15         | 27.46        | -64.22         | -13.00         | 51.22          | 304            | 262          | Horizontal |
| 3               | 3319.416       | 52.59             | -49.72         | 30.31        | -62.08         | -13.00         | 49.08          | 251            | 178          | Horizontal |
| 4               | 5139.307       | 51.32             | -44.26         | 33.58        | -54.62         | -13.00         | 41.62          | 203            | 65           | Horizontal |
| 5               | 7360.168       | 49.58             | -42.74         | 36.88        | -51.54         | -13.00         | 38.54          | 318            | 262          | Horizontal |
| 6               | 9047.7524      | 48.34             | -40.12         | 38.70        | -48.34         | -13.00         | 35.34          | 184            | 51           | Horizontal |

| Final Data List |                |                   |                |              |                |                |                |                |              |          |
|-----------------|----------------|-------------------|----------------|--------------|----------------|----------------|----------------|----------------|--------------|----------|
| NO.             | Freq.<br>[MHz] | Reading<br>[dBμV] | Factor<br>[dB] | AF<br>[dB/m] | Level<br>[dBm] | Limit<br>[dBm] | Margin<br>[dB] | Height<br>[cm] | Angle<br>[°] | Polarity |
| 1               | 1413.1207      | 74.68             | -53.59         | 25.77        | -48.40         | -13.00         | 35.40          | 153            | 232          | Vertical |
| 2               | 2110.6555      | 54.06             | -52.12         | 27.48        | -65.84         | -13.00         | 52.84          | 284            | 77           | Vertical |
| 3               | 3308.1654      | 52.63             | -49.72         | 30.54        | -61.81         | -13.00         | 48.81          | 143            | 352          | Vertical |
| 4               | 5086.6543      | 51.22             | -44.20         | 33.47        | -54.77         | -13.00         | 41.77          | 310            | 260          | Vertical |
| 5               | 7365.1183      | 49.75             | -42.72         | 36.87        | -51.36         | -13.00         | 38.36          | 218            | 338          | Vertical |
| 6               | 9084.6542      | 48.68             | -40.52         | 38.70        | -48.40         | -13.00         | 35.40          | 184            | 255          | 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---

