

# Appendix B.4

## LTE Band 5



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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 |
|-------|-----------|------------|---------|------------------|-------------|----------|------------|---------|
| Band5 | 1.4MHz    | QPSK       | 20407   | 1RB#0            | 23.56       | 24.09    | 38.45      | PASS    |
| Band5 | 1.4MHz    | QPSK       | 20407   | 1RB#2            | 23.58       | 24.11    | 38.45      | PASS    |
| Band5 | 1.4MHz    | QPSK       | 20407   | 1RB#5            | 23.56       | 24.09    | 38.45      | PASS    |
| Band5 | 1.4MHz    | QPSK       | 20407   | 6RB#0            | 22.63       | 23.16    | 38.45      | PASS    |
| Band5 | 1.4MHz    | QPSK       | 20525   | 1RB#0            | 23.66       | 24.19    | 38.45      | PASS    |
| Band5 | 1.4MHz    | QPSK       | 20525   | 1RB#2            | 23.76       | 24.29    | 38.45      | PASS    |
| Band5 | 1.4MHz    | QPSK       | 20525   | 1RB#5            | 23.65       | 24.18    | 38.45      | PASS    |
| Band5 | 1.4MHz    | QPSK       | 20525   | 6RB#0            | 22.80       | 23.33    | 38.45      | PASS    |
| Band5 | 1.4MHz    | QPSK       | 20643   | 1RB#0            | 23.71       | 24.24    | 38.45      | PASS    |
| Band5 | 1.4MHz    | QPSK       | 20643   | 1RB#2            | 23.73       | 24.26    | 38.45      | PASS    |
| Band5 | 1.4MHz    | QPSK       | 20643   | 1RB#5            | 23.69       | 24.22    | 38.45      | PASS    |
| Band5 | 1.4MHz    | QPSK       | 20643   | 6RB#0            | 22.78       | 23.31    | 38.45      | PASS    |
| Band5 | 1.4MHz    | 16QAM      | 20407   | 1RB#0            | 22.85       | 23.38    | 38.45      | PASS    |
| Band5 | 1.4MHz    | 16QAM      | 20407   | 1RB#2            | 22.91       | 23.44    | 38.45      | PASS    |
| Band5 | 1.4MHz    | 16QAM      | 20407   | 1RB#5            | 22.85       | 23.38    | 38.45      | PASS    |
| Band5 | 1.4MHz    | 16QAM      | 20407   | 6RB#0            | 21.72       | 22.25    | 38.45      | PASS    |
| Band5 | 1.4MHz    | 16QAM      | 20525   | 1RB#0            | 22.97       | 23.50    | 38.45      | PASS    |
| Band5 | 1.4MHz    | 16QAM      | 20525   | 1RB#2            | 23.01       | 23.54    | 38.45      | PASS    |
| Band5 | 1.4MHz    | 16QAM      | 20525   | 1RB#5            | 23.02       | 23.55    | 38.45      | PASS    |
| Band5 | 1.4MHz    | 16QAM      | 20525   | 6RB#0            | 21.90       | 22.43    | 38.45      | PASS    |
| Band5 | 1.4MHz    | 16QAM      | 20643   | 1RB#0            | 22.94       | 23.47    | 38.45      | PASS    |
| Band5 | 1.4MHz    | 16QAM      | 20643   | 1RB#2            | 22.97       | 23.50    | 38.45      | PASS    |
| Band5 | 1.4MHz    | 16QAM      | 20643   | 1RB#5            | 22.95       | 23.48    | 38.45      | PASS    |
| Band5 | 1.4MHz    | 16QAM      | 20643   | 6RB#0            | 21.86       | 22.39    | 38.45      | PASS    |
| Band5 | 3MHz      | QPSK       | 20415   | 1RB#0            | 23.61       | 24.14    | 38.45      | PASS    |
| Band5 | 3MHz      | QPSK       | 20415   | 1RB#8            | 23.57       | 24.10    | 38.45      | PASS    |



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|       |      |       |       |        |       |       |       |      |
|-------|------|-------|-------|--------|-------|-------|-------|------|
| Band5 | 3MHz | QPSK  | 20415 | 1RB#14 | 23.63 | 24.16 | 38.45 | PASS |
| Band5 | 3MHz | QPSK  | 20415 | 15RB#0 | 22.73 | 23.26 | 38.45 | PASS |
| Band5 | 3MHz | QPSK  | 20525 | 1RB#0  | 23.77 | 24.30 | 38.45 | PASS |
| Band5 | 3MHz | QPSK  | 20525 | 1RB#8  | 23.77 | 24.30 | 38.45 | PASS |
| Band5 | 3MHz | QPSK  | 20525 | 1RB#14 | 23.73 | 24.26 | 38.45 | PASS |
| Band5 | 3MHz | QPSK  | 20525 | 15RB#0 | 22.85 | 23.38 | 38.45 | PASS |
| Band5 | 3MHz | QPSK  | 20635 | 1RB#0  | 23.77 | 24.30 | 38.45 | PASS |
| Band5 | 3MHz | QPSK  | 20635 | 1RB#8  | 23.72 | 24.25 | 38.45 | PASS |
| Band5 | 3MHz | QPSK  | 20635 | 1RB#14 | 23.69 | 24.22 | 38.45 | PASS |
| Band5 | 3MHz | QPSK  | 20635 | 15RB#0 | 22.90 | 23.43 | 38.45 | PASS |
| Band5 | 3MHz | 16QAM | 20415 | 1RB#0  | 22.92 | 23.45 | 38.45 | PASS |
| Band5 | 3MHz | 16QAM | 20415 | 1RB#8  | 22.97 | 23.50 | 38.45 | PASS |
| Band5 | 3MHz | 16QAM | 20415 | 1RB#14 | 22.91 | 23.44 | 38.45 | PASS |
| Band5 | 3MHz | 16QAM | 20415 | 15RB#0 | 21.73 | 22.26 | 38.45 | PASS |
| Band5 | 3MHz | 16QAM | 20525 | 1RB#0  | 23.08 | 23.61 | 38.45 | PASS |
| Band5 | 3MHz | 16QAM | 20525 | 1RB#8  | 23.12 | 23.65 | 38.45 | PASS |
| Band5 | 3MHz | 16QAM | 20525 | 1RB#14 | 23.08 | 23.61 | 38.45 | PASS |
| Band5 | 3MHz | 16QAM | 20525 | 15RB#0 | 21.91 | 22.44 | 38.45 | PASS |
| Band5 | 3MHz | 16QAM | 20635 | 1RB#0  | 22.98 | 23.51 | 38.45 | PASS |
| Band5 | 3MHz | 16QAM | 20635 | 1RB#8  | 23.02 | 23.55 | 38.45 | PASS |
| Band5 | 3MHz | 16QAM | 20635 | 1RB#14 | 22.91 | 23.44 | 38.45 | PASS |
| Band5 | 3MHz | 16QAM | 20635 | 15RB#0 | 21.90 | 22.43 | 38.45 | PASS |
| Band5 | 5MHz | QPSK  | 20425 | 1RB#0  | 23.63 | 24.16 | 38.45 | PASS |
| Band5 | 5MHz | QPSK  | 20425 | 1RB#12 | 23.62 | 24.15 | 38.45 | PASS |
| Band5 | 5MHz | QPSK  | 20425 | 1RB#24 | 23.75 | 24.28 | 38.45 | PASS |
| Band5 | 5MHz | QPSK  | 20425 | 25RB#0 | 22.82 | 23.35 | 38.45 | PASS |
| Band5 | 5MHz | QPSK  | 20525 | 1RB#0  | 23.76 | 24.29 | 38.45 | PASS |
| Band5 | 5MHz | QPSK  | 20525 | 1RB#12 | 23.77 | 24.30 | 38.45 | PASS |
| Band5 | 5MHz | QPSK  | 20525 | 1RB#24 | 23.68 | 24.21 | 38.45 | PASS |
| Band5 | 5MHz | QPSK  | 20525 | 25RB#0 | 22.85 | 23.38 | 38.45 | PASS |
| Band5 | 5MHz | QPSK  | 20625 | 1RB#0  | 23.82 | 24.35 | 38.45 | PASS |
| Band5 | 5MHz | QPSK  | 20625 | 1RB#12 | 23.83 | 24.36 | 38.45 | PASS |



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|       |       |       |       |        |       |       |       |      |
|-------|-------|-------|-------|--------|-------|-------|-------|------|
| Band5 | 5MHz  | QPSK  | 20625 | 1RB#24 | 23.71 | 24.24 | 38.45 | PASS |
| Band5 | 5MHz  | QPSK  | 20625 | 25RB#0 | 22.90 | 23.43 | 38.45 | PASS |
| Band5 | 5MHz  | 16QAM | 20425 | 1RB#0  | 22.92 | 23.45 | 38.45 | PASS |
| Band5 | 5MHz  | 16QAM | 20425 | 1RB#12 | 23.00 | 23.53 | 38.45 | PASS |
| Band5 | 5MHz  | 16QAM | 20425 | 1RB#24 | 22.98 | 23.51 | 38.45 | PASS |
| Band5 | 5MHz  | 16QAM | 20425 | 25RB#0 | 21.83 | 22.36 | 38.45 | PASS |
| Band5 | 5MHz  | 16QAM | 20525 | 1RB#0  | 23.11 | 23.64 | 38.45 | PASS |
| Band5 | 5MHz  | 16QAM | 20525 | 1RB#12 | 23.11 | 23.64 | 38.45 | PASS |
| Band5 | 5MHz  | 16QAM | 20525 | 1RB#24 | 22.97 | 23.50 | 38.45 | PASS |
| Band5 | 5MHz  | 16QAM | 20525 | 25RB#0 | 21.84 | 22.37 | 38.45 | PASS |
| Band5 | 5MHz  | 16QAM | 20625 | 1RB#0  | 23.13 | 23.66 | 38.45 | PASS |
| Band5 | 5MHz  | 16QAM | 20625 | 1RB#12 | 22.99 | 23.52 | 38.45 | PASS |
| Band5 | 5MHz  | 16QAM | 20625 | 1RB#24 | 22.87 | 23.40 | 38.45 | PASS |
| Band5 | 5MHz  | 16QAM | 20625 | 25RB#0 | 21.92 | 22.45 | 38.45 | PASS |
| Band5 | 10MHz | QPSK  | 20450 | 1RB#0  | 23.63 | 24.16 | 38.45 | PASS |
| Band5 | 10MHz | QPSK  | 20450 | 1RB#24 | 23.77 | 24.30 | 38.45 | PASS |
| Band5 | 10MHz | QPSK  | 20450 | 1RB#49 | 23.79 | 24.32 | 38.45 | PASS |
| Band5 | 10MHz | QPSK  | 20450 | 50RB#0 | 22.81 | 23.34 | 38.45 | PASS |
| Band5 | 10MHz | QPSK  | 20525 | 1RB#0  | 23.72 | 24.25 | 38.45 | PASS |
| Band5 | 10MHz | QPSK  | 20525 | 1RB#24 | 23.79 | 24.32 | 38.45 | PASS |
| Band5 | 10MHz | QPSK  | 20525 | 1RB#49 | 23.72 | 24.25 | 38.45 | PASS |
| Band5 | 10MHz | QPSK  | 20525 | 50RB#0 | 22.90 | 23.43 | 38.45 | PASS |
| Band5 | 10MHz | QPSK  | 20600 | 1RB#0  | 23.75 | 24.28 | 38.45 | PASS |
| Band5 | 10MHz | QPSK  | 20600 | 1RB#24 | 23.86 | 24.39 | 38.45 | PASS |
| Band5 | 10MHz | QPSK  | 20600 | 1RB#49 | 23.72 | 24.25 | 38.45 | PASS |
| Band5 | 10MHz | QPSK  | 20600 | 50RB#0 | 22.86 | 23.39 | 38.45 | PASS |
| Band5 | 10MHz | 16QAM | 20450 | 1RB#0  | 22.91 | 23.44 | 38.45 | PASS |
| Band5 | 10MHz | 16QAM | 20450 | 1RB#24 | 23.09 | 23.62 | 38.45 | PASS |
| Band5 | 10MHz | 16QAM | 20450 | 1RB#49 | 22.99 | 23.52 | 38.45 | PASS |
| Band5 | 10MHz | 16QAM | 20450 | 50RB#0 | 21.84 | 22.37 | 38.45 | PASS |
| Band5 | 10MHz | 16QAM | 20525 | 1RB#0  | 23.03 | 23.56 | 38.45 | PASS |
| Band5 | 10MHz | 16QAM | 20525 | 1RB#24 | 23.02 | 23.55 | 38.45 | PASS |



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|       |       |       |       |        |       |       |       |      |
|-------|-------|-------|-------|--------|-------|-------|-------|------|
| Band5 | 10MHz | 16QAM | 20525 | 1RB#49 | 22.97 | 23.50 | 38.45 | PASS |
| Band5 | 10MHz | 16QAM | 20525 | 50RB#0 | 21.88 | 22.41 | 38.45 | PASS |
| Band5 | 10MHz | 16QAM | 20600 | 1RB#0  | 23.05 | 23.58 | 38.45 | PASS |
| Band5 | 10MHz | 16QAM | 20600 | 1RB#24 | 23.15 | 23.68 | 38.45 | PASS |
| Band5 | 10MHz | 16QAM | 20600 | 1RB#49 | 22.90 | 23.43 | 38.45 | PASS |
| Band5 | 10MHz | 16QAM | 20600 | 50RB#0 | 21.86 | 22.39 | 38.45 | PASS |



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## Field Strength of Spurious Radiation

Test Band = LTE\_5\_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[°] | Polarity   |
| 1               | 1169.5212      | 54.07             | -53.41         | 25.78        | -68.82         | -13.00         | 55.82          | 223            | 146      | Horizontal |
| 2               | 1649.0811      | 72.88             | -52.88         | 25.90        | -49.36         | -13.00         | 36.36          | 325            | 193      | Horizontal |
| 3               | 2193.8992      | 52.95             | -51.96         | 27.66        | -66.61         | -13.00         | 53.61          | 214            | 124      | Horizontal |
| 4               | 3115.1558      | 53.12             | -50.35         | 30.16        | -62.33         | -13.00         | 49.33          | 178            | 146      | Horizontal |
| 5               | 6510.3255      | 50.05             | -44.27         | 35.12        | -54.36         | -13.00         | 41.36          | 226            | 225      | Horizontal |
| 6               | 9613.9307      | 47.21             | -41.10         | 39.09        | -50.06         | -13.00         | 37.06          | 219            | 240      | 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[°] | Polarity |
| 1               | 1357.7947      | 53.44             | -53.71         | 25.88        | -69.65         | -13.00         | 56.65          | 336            | 158      | Vertical |
| 2               | 1649.0811      | 70.18             | -52.88         | 25.90        | -52.06         | -13.00         | 39.06          | 345            | 241      | Vertical |
| 3               | 2442.1803      | 53.68             | -51.38         | 27.88        | -65.08         | -13.00         | 52.08          | 241            | 295      | Vertical |
| 4               | 3122.1561      | 53.59             | -50.24         | 30.19        | -61.72         | -13.00         | 48.72          | 178            | 261      | Vertical |
| 5               | 5727.3364      | 51.04             | -45.40         | 33.72        | -55.90         | -13.00         | 42.90          | 220            | 39       | Vertical |
| 6               | 9022.4011      | 48.16             | -41.75         | 38.76        | -50.09         | -13.00         | 37.09          | 166            | 320      | Vertical |



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Test Band = LTE\_5\_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[°] | Polarity   |
| 1               | 1169.5212      | 53.84             | -53.41         | 25.78        | -69.05         | -13.00         | 56.05          | 255            | 340      | Horizontal |
| 2               | 1664.083       | 70.10             | -52.81         | 25.87        | -52.10         | -13.00         | 39.10          | 263            | 220      | Horizontal |
| 3               | 3171.8586      | 52.66             | -50.17         | 30.34        | -62.43         | -13.00         | 49.43          | 254            | 0        | Horizontal |
| 4               | 4446.6223      | 51.67             | -48.19         | 31.92        | -59.86         | -13.00         | 46.86          | 148            | 300      | Horizontal |
| 5               | 6747.2874      | 49.94             | -44.11         | 36.18        | -53.25         | -13.00         | 40.25          | 226            | 152      | Horizontal |
| 6               | 9044.8022      | 48.34             | -41.85         | 38.71        | -50.06         | -13.00         | 37.06          | 326            | 117      | 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[°] | Polarity |
| 1               | 1664.083       | 68.98             | -52.81         | 25.87        | -53.22         | -13.00         | 40.22          | 287            | 221      | Vertical |
| 2               | 2523.9405      | 52.81             | -51.06         | 28.14        | -65.37         | -13.00         | 52.37          | 145            | 51       | Vertical |
| 3               | 3928.9464      | 52.00             | -49.07         | 30.77        | -61.56         | -13.00         | 48.56          | 226            | 43       | Vertical |
| 4               | 5697.2349      | 50.85             | -44.75         | 33.49        | -55.67         | -13.00         | 42.67          | 325            | 291      | Vertical |
| 5               | 7484.7742      | 49.78             | -43.28         | 36.63        | -52.13         | -13.00         | 39.13          | 144            | 237      | Vertical |
| 6               | 9931.3966      | 47.47             | -41.18         | 38.91        | -50.06         | -13.00         | 37.06          | 129            | 300      | Vertical |



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**Test Band = LTE\_5\_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[°] | Polarity   |
| 1               | 1679.0849      | 69.57             | -52.74         | 25.84        | -52.59         | -13.00         | 39.59          | 179            | 205      | Horizontal |
| 2               | 2203.9005      | 52.82             | -51.94         | 27.68        | -66.70         | -13.00         | 53.70          | 254            | 230      | Horizontal |
| 3               | 3000           | 51.39             | -50.37         | 29.80        | -64.44         | -13.00         | 50.74          | 145            | 142      | Horizontal |
| 4               | 4234.5117      | 51.80             | -48.51         | 31.91        | -60.06         | -13.00         | 47.06          | 226            | 280      | Horizontal |
| 5               | 7497.0249      | 49.71             | -43.19         | 36.61        | -52.13         | -13.00         | 39.13          | 321            | 251      | Horizontal |
| 6               | 9023.1012      | 48.46             | -41.75         | 38.75        | -49.80         | -13.00         | 36.80          | 102            | 167      | 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[°] | Polarity |
| 1               | 1679.3349      | 66.28             | -52.74         | 25.84        | -55.88         | -13.00         | 42.88          | 258            | 240      | Vertical |
| 2               | 2526.9409      | 52.59             | -51.04         | 28.16        | -65.55         | -13.00         | 52.55          | 263            | 337      | Vertical |
| 3               | 3543.5772      | 52.64             | -49.62         | 30.06        | -62.18         | -13.00         | 49.18          | 388            | 330      | Vertical |
| 4               | 5127.0564      | 50.82             | -47.11         | 33.55        | -58.00         | -13.00         | 45.00          | 196            | 202      | Vertical |
| 5               | 7874.6937      | 49.26             | -43.37         | 37.25        | -52.12         | -13.00         | 39.12          | 322            | 349      | Vertical |
| 6               | 9014.0007      | 48.04             | -41.71         | 38.77        | -50.16         | -13.00         | 37.16          | 321            | 34       | 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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