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**Test Band = LTE Band 2\_ TM1**
**Test Channel = High Channel**

| Final Data List |                 |                |             |          |             |             |             |             |           |            |
|-----------------|-----------------|----------------|-------------|----------|-------------|-------------|-------------|-------------|-----------|------------|
| NO.             | Frequency [MHz] | Reading [dBμV] | Factor [dB] | AF[dB/m] | Level [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [°] | Polarity   |
| 1               | 3782.1800       | 41.47          | -45.85      | 30.27    | -69.37      | -13.00      | 56.37       | 266         | 104       | Horizontal |
| 2               | 5673.2700       | 40.33          | -44.91      | 33.29    | -66.55      | -13.00      | 53.55       | 147         | 343       | Horizontal |
| 3               | 7564.3600       | 43.46          | -43.00      | 36.41    | -58.40      | -13.00      | 45.40       | 185         | 285       | Horizontal |
| 4               | 9455.4500       | 34.95          | -40.05      | 38.48    | -61.89      | -13.00      | 48.89       | 196         | 196       | Horizontal |
| 5               | 11346.5400      | 31.68          | -37.40      | 39.11    | -61.87      | -13.00      | 48.87       | 141         | 360       | Horizontal |
| 6               | 13237.6300      | 29.68          | -37.08      | 39.96    | -62.69      | -13.00      | 49.69       | 152         | 135       | Horizontal |

| Final Data List |                 |                |             |          |             |             |             |             |           |          |
|-----------------|-----------------|----------------|-------------|----------|-------------|-------------|-------------|-------------|-----------|----------|
| NO.             | Frequency [MHz] | Reading [dBμV] | Factor [dB] | AF[dB/m] | Level [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [°] | Polarity |
| 1               | 3782.1800       | 42.78          | -45.85      | 30.27    | -68.06      | -13.00      | 55.06       | 241         | 75        | Vertical |
| 2               | 5673            | 47.58          | -44.91      | 33.29    | -59.30      | -13.00      | 46.30       | 233         | 181       | Vertical |
| 3               | 7564.3600       | 43.77          | -43.00      | 36.41    | -58.09      | -13.00      | 45.09       | 142         | 29        | Vertical |
| 4               | 9455.4500       | 34.82          | -40.05      | 38.48    | -62.02      | -13.00      | 49.02       | 166         | 330       | Vertical |
| 5               | 11346.5400      | 31.66          | -37.40      | 39.11    | -61.89      | -13.00      | 48.89       | 258         | 239       | Vertical |
| 6               | 13237.6300      | 30.00          | -37.08      | 39.96    | -62.37      | -13.00      | 49.37       | 191         | 44        | 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



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## Frequency Stability

### Test Result

| Band  | Bandwidth | Modulation | Channel | RB Configure | Voltage [Vdc] | Temperature (°C) | Deviation (Hz) | Deviation (ppm) | Verdict |
|-------|-----------|------------|---------|--------------|---------------|------------------|----------------|-----------------|---------|
| Band2 | 20MHz     | QPSK       | 18900   | 100RB#0      | VL            | NT               | -3.10          | -0.001649       | PASS    |
| Band2 | 20MHz     | QPSK       | 18900   | 100RB#0      | VN            | NT               | -1.20          | -0.000638       | PASS    |
| Band2 | 20MHz     | QPSK       | 18900   | 100RB#0      | VH            | NT               | -2.60          | -0.001383       | PASS    |

| Band  | Bandwidth | Modulation | Channel | RB Configure | Voltage [Vdc] | Temperature (°C) | Deviation (Hz) | Deviation (ppm) | Verdict |
|-------|-----------|------------|---------|--------------|---------------|------------------|----------------|-----------------|---------|
| Band2 | 20MHz     | QPSK       | 18900   | 100RB#0      | NV            | -30              | -2.90          | -0.001543       | PASS    |
| Band2 | 20MHz     | QPSK       | 18900   | 100RB#0      | NV            | -20              | -2.00          | -0.001064       | PASS    |
| Band2 | 20MHz     | QPSK       | 18900   | 100RB#0      | NV            | -10              | -3.10          | -0.001649       | PASS    |
| Band2 | 20MHz     | QPSK       | 18900   | 100RB#0      | NV            | 0                | -1.70          | -0.000904       | PASS    |
| Band2 | 20MHz     | QPSK       | 18900   | 100RB#0      | NV            | 10               | -2.00          | -0.001064       | PASS    |
| Band2 | 20MHz     | QPSK       | 18900   | 100RB#0      | NV            | 20               | -2.10          | -0.001117       | PASS    |
| Band2 | 20MHz     | QPSK       | 18900   | 100RB#0      | NV            | 30               | 0.30           | 0.000160        | PASS    |
| Band2 | 20MHz     | QPSK       | 18900   | 100RB#0      | NV            | 40               | -1.60          | -0.000851       | PASS    |
| Band2 | 20MHz     | QPSK       | 18900   | 100RB#0      | NV            | 50               | -1.50          | -0.000798       | PASS    |

---End of Attachment---



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