







Frequency Stability

| Test Conditions | | LTE Band 48 (QPSK) / Middle Channel | Limit |
|------------------|-------------------|-------------------------------------|---------|
| Temperature (°C) | Voltage (Volt) | BW 20MHz | Note 2. |
| | | Deviation (ppm) | Result |
| 50 | Normal Voltage | 0.0043 | PASS |
| 40 | Normal Voltage | 0.0031 | |
| 30 | Normal Voltage | 0.0032 | |
| 20(Ref.) | Normal Voltage | 0.0000 | |
| 10 | Normal Voltage | 0.0022 | |
| 0 | Normal Voltage | 0.0026 | |
| -10 | Normal Voltage | 0.0018 | |
| -20 | Normal Voltage | 0.0011 | |
| -30 | Normal Voltage | 0.0012 | |
| 20 | Maximum Voltage | 0.0021 | |
| 20 | Normal Voltage | 0.0010 | |
| 20 | Battery End Point | 0.0023 | |

Note:

1. Normal Voltage =3.3V. ; Battery End Point (BEP) =3.135 V. ; Maximum Voltage =4.4 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



Appendix B. Test Results of Radiated Test

Radiated Spurious Emission

| LTE Band 48 / 20MHz / QPSK | | | | | | | | |
|----------------------------|-------------------|--------------|---------------|-------------------|--------------------|----------------------|-----------------------|--------------------|
| Channel | Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Over Limit (dB) | S.G. Power (dBm) | TX Cable loss (dB) | TX Antenna Gain (dBi) | Polarization (H/V) |
| Lowest | 7104 | -62.87 | -40 | -22.87 | -74.33 | 2.84 | 14.30 | H |
| | 10656 | -60.64 | -40 | -20.64 | -70.58 | 3.49 | 13.43 | H |
| | 14202 | -60.26 | -40 | -20.26 | -70.50 | 3.85 | 14.09 | H |
| | 7104 | -62.51 | -40 | -22.51 | -73.97 | 2.84 | 14.30 | V |
| | 10656 | -60.96 | -40 | -20.96 | -70.90 | 3.49 | 13.43 | V |
| | 14202 | -61.05 | -40 | -21.05 | -71.29 | 3.85 | 14.09 | V |
| Middle | 7230 | -62.44 | -40 | -22.44 | -73.90 | 2.84 | 14.30 | H |
| | 10848 | -61.04 | -40 | -21.04 | -70.98 | 3.49 | 13.43 | H |
| | 14466 | -59.50 | -40 | -19.50 | -69.74 | 3.85 | 14.09 | H |
| | 7230 | -62.37 | -40 | -22.37 | -73.83 | 2.84 | 14.30 | V |
| | 10848 | -61.54 | -40 | -21.54 | -71.48 | 3.49 | 13.43 | V |
| | 14466 | -60.35 | -40 | -20.35 | -70.59 | 3.85 | 14.09 | V |
| Highest | 7362 | -62.68 | -40 | -22.68 | -74.14 | 2.84 | 14.30 | H |
| | 11046 | -60.98 | -40 | -20.98 | -70.92 | 3.49 | 13.43 | H |
| | 14724 | -58.85 | -40 | -18.85 | -69.09 | 3.85 | 14.09 | H |
| | 7362 | -62.34 | -40 | -22.34 | -73.80 | 2.84 | 14.30 | V |
| | 11046 | -61.39 | -40 | -21.39 | -71.33 | 3.49 | 13.43 | V |
| | 14724 | -60.03 | -40 | -20.03 | -70.27 | 3.85 | 14.09 | V |

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.