

**LTE CAT-M Band 13 Bandwidth 10 MHz**

|                        |                |                          |             |
|------------------------|----------------|--------------------------|-------------|
| <b>Frequency Range</b> | 1GHz ~ 26.5GHz | <b>Operating Channel</b> | Mid Channel |
|------------------------|----------------|--------------------------|-------------|

| <b>SPURIOUS EMISSION LEVEL</b> |                             |                    |                    |                    |
|--------------------------------|-----------------------------|--------------------|--------------------|--------------------|
| <b>Frequency (MHz)</b>         | <b>Antenna Polarization</b> | <b>Level (dBm)</b> | <b>Limit (dBm)</b> | <b>Margin (dB)</b> |
| 1567.375                       | Vertical                    | -57.22             | -13                | -44.22             |
| 1567.375                       | Horizontal                  | -57.16             | -13                | -44.16             |
| 2347.25                        | Vertical                    | -53.93             | -13                | -40.93             |
| 2347.25                        | Horizontal                  | -53.80             | -13                | -40.8              |

**LTE CAT-M Band 13 Bandwidth 5 MHz**

|                        |                |                          |              |
|------------------------|----------------|--------------------------|--------------|
| <b>Frequency Range</b> | 1GHz ~ 26.5GHz | <b>Operating Channel</b> | High Channel |
|------------------------|----------------|--------------------------|--------------|

| <b>SPURIOUS EMISSION LEVEL</b> |                             |                    |                    |                    |
|--------------------------------|-----------------------------|--------------------|--------------------|--------------------|
| <b>Frequency (MHz)</b>         | <b>Antenna Polarization</b> | <b>Level (dBm)</b> | <b>Limit (dBm)</b> | <b>Margin (dB)</b> |
| 1573.125                       | Vertical                    | -58.38             | -13                | -45.38             |
| 1575.25                        | Horizontal                  | -58.41             | -13                | -45.41             |
| 2362.25                        | Vertical                    | -54.26             | -13                | -41.26             |
| 2362.25                        | Horizontal                  | -54.42             | -13                | -41.42             |

**LTE CAT-M Band 13 Bandwidth 10 MHz**

|                        |                |                          |              |
|------------------------|----------------|--------------------------|--------------|
| <b>Frequency Range</b> | 1GHz ~ 26.5GHz | <b>Operating Channel</b> | High Channel |
|------------------------|----------------|--------------------------|--------------|

| <b>SPURIOUS EMISSION LEVEL</b> |                             |                    |                    |                    |
|--------------------------------|-----------------------------|--------------------|--------------------|--------------------|
| <b>Frequency (MHz)</b>         | <b>Antenna Polarization</b> | <b>Level (dBm)</b> | <b>Limit (dBm)</b> | <b>Margin (dB)</b> |
| 1577.375                       | Vertical                    | -57.24             | -13                | -44.24             |
| 1577.375                       | Horizontal                  | -57.27             | -13                | -44.27             |
| 2362.25                        | Vertical                    | -54.09             | -13                | -41.09             |
| 2362.25                        | Horizontal                  | -53.86             | -13                | -40.86             |

**LTE CAT-M Band 25 Bandwidth 1.4 MHz**

|                        |                |                          |             |
|------------------------|----------------|--------------------------|-------------|
| <b>Frequency Range</b> | 1GHz ~ 26.5GHz | <b>Operating Channel</b> | Low Channel |
|------------------------|----------------|--------------------------|-------------|

| SPURIOUS EMISSION LEVEL |                      |             |             |             |
|-------------------------|----------------------|-------------|-------------|-------------|
| Frequency (MHz)         | Antenna Polarization | Level (dBm) | Limit (dBm) | Margin (dB) |
| 3699.625                | Vertical             | -54.37      | -13         | -41.37      |
| 3699.625                | Horizontal           | -54.15      | -13         | -41.15      |
| 5522.88                 | Vertical             | -52.73      | -13         | -39.73      |
| 5522.88                 | Horizontal           | -51.78      | -13         | -38.78      |

**LTE CAT-M Band 25 Bandwidth 3 MHz**

|                        |                |                          |             |
|------------------------|----------------|--------------------------|-------------|
| <b>Frequency Range</b> | 1GHz ~ 26.5GHz | <b>Operating Channel</b> | Low Channel |
|------------------------|----------------|--------------------------|-------------|

| SPURIOUS EMISSION LEVEL |                      |             |             |             |
|-------------------------|----------------------|-------------|-------------|-------------|
| Frequency (MHz)         | Antenna Polarization | Level (dBm) | Limit (dBm) | Margin (dB) |
| 3699.625                | Vertical             | -54.59      | -13         | -41.59      |
| 3699.625                | Horizontal           | -53.86      | -13         | -40.86      |
| 5520.75                 | Vertical             | -51.47      | -13         | -38.47      |
| 5520.75                 | Horizontal           | -51.45      | -13         | -38.45      |

**LTE CAT-M Band 25 Bandwidth 5 MHz**

|                        |                |                          |             |
|------------------------|----------------|--------------------------|-------------|
| <b>Frequency Range</b> | 1GHz ~ 26.5GHz | <b>Operating Channel</b> | Low Channel |
|------------------------|----------------|--------------------------|-------------|

| SPURIOUS EMISSION LEVEL |                      |             |             |             |
|-------------------------|----------------------|-------------|-------------|-------------|
| Frequency (MHz)         | Antenna Polarization | Level (dBm) | Limit (dBm) | Margin (dB) |
| 3699.625                | Vertical             | -54.59      | -13         | -41.59      |
| 3699.625                | Horizontal           | -53.86      | -13         | -40.86      |
| 5522.88                 | Vertical             | -54.21      | -13         | -41.21      |
| 5522.88                 | Horizontal           | -53.88      | -13         | -40.88      |

**LTE CAT-M Band 25 Bandwidth 10 MHz**

|                        |                |                          |             |
|------------------------|----------------|--------------------------|-------------|
| <b>Frequency Range</b> | 1GHz ~ 26.5GHz | <b>Operating Channel</b> | Low Channel |
|------------------------|----------------|--------------------------|-------------|

| <b>SPURIOUS EMISSION LEVEL</b> |                             |                    |                    |                    |
|--------------------------------|-----------------------------|--------------------|--------------------|--------------------|
| <b>Frequency (MHz)</b>         | <b>Antenna Polarization</b> | <b>Level (dBm)</b> | <b>Limit (dBm)</b> | <b>Margin (dB)</b> |
| 3699.625                       | Vertical                    | -51.78             | -13                | -38.78             |
| 3699.625                       | Horizontal                  | -51.76             | -13                | -38.76             |
| 5522.88                        | Vertical                    | -51.93             | -13                | -38.93             |
| 5518.63                        | Horizontal                  | -52.67             | -13                | -39.67             |

**LTE CAT-M Band 25 Bandwidth 15 MHz**

|                        |                |                          |             |
|------------------------|----------------|--------------------------|-------------|
| <b>Frequency Range</b> | 1GHz ~ 26.5GHz | <b>Operating Channel</b> | Low Channel |
|------------------------|----------------|--------------------------|-------------|

| <b>SPURIOUS EMISSION LEVEL</b> |                             |                    |                    |                    |
|--------------------------------|-----------------------------|--------------------|--------------------|--------------------|
| <b>Frequency (MHz)</b>         | <b>Antenna Polarization</b> | <b>Level (dBm)</b> | <b>Limit (dBm)</b> | <b>Margin (dB)</b> |
| 3710.25                        | Vertical                    | -51.53             | -13                | -38.53             |
| 3708.125                       | Horizontal                  | -52.45             | -13                | -39.45             |
| 5529.25                        | Vertical                    | -52.74             | -13                | -39.74             |
| 5529.25                        | Horizontal                  | -52.04             | -13                | -39.04             |

**LTE CAT-M Band 25 Bandwidth 20 MHz**

|                        |                |                          |             |
|------------------------|----------------|--------------------------|-------------|
| <b>Frequency Range</b> | 1GHz ~ 26.5GHz | <b>Operating Channel</b> | Low Channel |
|------------------------|----------------|--------------------------|-------------|

| <b>SPURIOUS EMISSION LEVEL</b> |                             |                    |                    |                    |
|--------------------------------|-----------------------------|--------------------|--------------------|--------------------|
| <b>Frequency (MHz)</b>         | <b>Antenna Polarization</b> | <b>Level (dBm)</b> | <b>Limit (dBm)</b> | <b>Margin (dB)</b> |
| 3706                           | Vertical                    | -52.66             | -13                | -39.66             |
| 3697.5                         | Horizontal                  | -51.94             | -13                | -38.94             |
| 5522.88                        | Vertical                    | -53.32             | -13                | -40.32             |
| 5518.63                        | Horizontal                  | -52.99             | -13                | -39.99             |

**LTE CAT-M Band 25 Bandwidth 1.4 MHz**

|                        |                |                          |             |
|------------------------|----------------|--------------------------|-------------|
| <b>Frequency Range</b> | 1GHz ~ 26.5GHz | <b>Operating Channel</b> | Mid Channel |
|------------------------|----------------|--------------------------|-------------|

| <b>SPURIOUS EMISSION LEVEL</b> |                             |                    |                    |                    |
|--------------------------------|-----------------------------|--------------------|--------------------|--------------------|
| <b>Frequency (MHz)</b>         | <b>Antenna Polarization</b> | <b>Level (dBm)</b> | <b>Limit (dBm)</b> | <b>Margin (dB)</b> |
| 3764.625                       | Vertical                    | -54.23             | -13                | -41.23             |
| 3764.625                       | Horizontal                  | -54.01             | -13                | -41.01             |
| 5647.375                       | Vertical                    | -52.59             | -13                | -39.59             |
| 5647.375                       | Horizontal                  | -51.64             | -13                | -38.64             |

**LTE CAT-M Band 25 Bandwidth 3 MHz**

|                        |                |                          |             |
|------------------------|----------------|--------------------------|-------------|
| <b>Frequency Range</b> | 1GHz ~ 26.5GHz | <b>Operating Channel</b> | Mid Channel |
|------------------------|----------------|--------------------------|-------------|

| <b>SPURIOUS EMISSION LEVEL</b> |                             |                    |                    |                    |
|--------------------------------|-----------------------------|--------------------|--------------------|--------------------|
| <b>Frequency (MHz)</b>         | <b>Antenna Polarization</b> | <b>Level (dBm)</b> | <b>Limit (dBm)</b> | <b>Margin (dB)</b> |
| 3764.625                       | Vertical                    | -54.45             | -13                | -41.45             |
| 3764.625                       | Horizontal                  | -53.72             | -13                | -40.72             |
| 5645.25                        | Vertical                    | -51.33             | -13                | -38.33             |
| 5645.25                        | Horizontal                  | -51.31             | -13                | -38.31             |

**LTE CAT-M Band 25 Bandwidth 5 MHz**

|                        |                |                          |             |
|------------------------|----------------|--------------------------|-------------|
| <b>Frequency Range</b> | 1GHz ~ 26.5GHz | <b>Operating Channel</b> | Mid Channel |
|------------------------|----------------|--------------------------|-------------|

| <b>SPURIOUS EMISSION LEVEL</b> |                             |                    |                    |                    |
|--------------------------------|-----------------------------|--------------------|--------------------|--------------------|
| <b>Frequency (MHz)</b>         | <b>Antenna Polarization</b> | <b>Level (dBm)</b> | <b>Limit (dBm)</b> | <b>Margin (dB)</b> |
| 3764.625                       | Vertical                    | -54.45             | -13                | -41.45             |
| 3764.625                       | Horizontal                  | -53.72             | -13                | -40.72             |
| 5647.375                       | Vertical                    | -54.07             | -13                | -41.07             |
| 5647.375                       | Horizontal                  | -53.74             | -13                | -40.74             |

**LTE CAT-M Band 25 Bandwidth 10 MHz**

|                        |                |                          |             |
|------------------------|----------------|--------------------------|-------------|
| <b>Frequency Range</b> | 1GHz ~ 26.5GHz | <b>Operating Channel</b> | Mid Channel |
|------------------------|----------------|--------------------------|-------------|

| <b>SPURIOUS EMISSION LEVEL</b> |                             |                    |                    |                    |
|--------------------------------|-----------------------------|--------------------|--------------------|--------------------|
| <b>Frequency (MHz)</b>         | <b>Antenna Polarization</b> | <b>Level (dBm)</b> | <b>Limit (dBm)</b> | <b>Margin (dB)</b> |
| 3764.625                       | Vertical                    | -51.64             | -13                | -38.64             |
| 3764.625                       | Horizontal                  | -51.62             | -13                | -38.62             |
| 5647.375                       | Vertical                    | -51.79             | -13                | -38.79             |
| 5643.125                       | Horizontal                  | -52.53             | -13                | -39.53             |

**LTE CAT-M Band 25 Bandwidth 15 MHz**

|                        |                |                          |             |
|------------------------|----------------|--------------------------|-------------|
| <b>Frequency Range</b> | 1GHz ~ 26.5GHz | <b>Operating Channel</b> | Mid Channel |
|------------------------|----------------|--------------------------|-------------|

| <b>SPURIOUS EMISSION LEVEL</b> |                             |                    |                    |                    |
|--------------------------------|-----------------------------|--------------------|--------------------|--------------------|
| <b>Frequency (MHz)</b>         | <b>Antenna Polarization</b> | <b>Level (dBm)</b> | <b>Limit (dBm)</b> | <b>Margin (dB)</b> |
| 3775.25                        | Vertical                    | -51.39             | -13                | -38.39             |
| 3773.125                       | Horizontal                  | -52.31             | -13                | -39.31             |
| 5653.75                        | Vertical                    | -52.60             | -13                | -39.6              |
| 5653.75                        | Horizontal                  | -51.90             | -13                | -38.9              |

**LTE CAT-M Band 25 Bandwidth 20 MHz**

|                        |                |                          |             |
|------------------------|----------------|--------------------------|-------------|
| <b>Frequency Range</b> | 1GHz ~ 26.5GHz | <b>Operating Channel</b> | Mid Channel |
|------------------------|----------------|--------------------------|-------------|

| <b>SPURIOUS EMISSION LEVEL</b> |                             |                    |                    |                    |
|--------------------------------|-----------------------------|--------------------|--------------------|--------------------|
| <b>Frequency (MHz)</b>         | <b>Antenna Polarization</b> | <b>Level (dBm)</b> | <b>Limit (dBm)</b> | <b>Margin (dB)</b> |
| 3771                           | Vertical                    | -52.52             | -13                | -39.52             |
| 3762.5                         | Horizontal                  | -51.80             | -13                | -38.8              |
| 5647.375                       | Vertical                    | -53.18             | -13                | -40.18             |
| 5643.125                       | Horizontal                  | -52.85             | -13                | -39.85             |

**LTE CAT-M Band 25 Bandwidth 1.4 MHz**

|                        |                |                          |              |
|------------------------|----------------|--------------------------|--------------|
| <b>Frequency Range</b> | 1GHz ~ 26.5GHz | <b>Operating Channel</b> | High Channel |
|------------------------|----------------|--------------------------|--------------|

| <b>SPURIOUS EMISSION LEVEL</b> |                             |                    |                    |                    |
|--------------------------------|-----------------------------|--------------------|--------------------|--------------------|
| <b>Frequency (MHz)</b>         | <b>Antenna Polarization</b> | <b>Level (dBm)</b> | <b>Limit (dBm)</b> | <b>Margin (dB)</b> |
| 3829.625                       | Vertical                    | -54.25             | -13                | -41.25             |
| 3829.625                       | Horizontal                  | -54.12             | -13                | -41.12             |
| 5717.875                       | Vertical                    | -52.75             | -13                | -39.75             |
| 5717.875                       | Horizontal                  | -51.7              | -13                | -38.7              |

**LTE CAT-M Band 25 Bandwidth 3 MHz**

|                        |                |                          |              |
|------------------------|----------------|--------------------------|--------------|
| <b>Frequency Range</b> | 1GHz ~ 26.5GHz | <b>Operating Channel</b> | High Channel |
|------------------------|----------------|--------------------------|--------------|

| <b>SPURIOUS EMISSION LEVEL</b> |                             |                    |                    |                    |
|--------------------------------|-----------------------------|--------------------|--------------------|--------------------|
| <b>Frequency (MHz)</b>         | <b>Antenna Polarization</b> | <b>Level (dBm)</b> | <b>Limit (dBm)</b> | <b>Margin (dB)</b> |
| 3829.625                       | Vertical                    | -54.47             | -13                | -41.47             |
| 3829.625                       | Horizontal                  | -53.83             | -13                | -40.83             |
| 5715.75                        | Vertical                    | -51.49             | -13                | -38.49             |
| 5715.75                        | Horizontal                  | -51.37             | -13                | -38.37             |

**LTE CAT-M Band 25 Bandwidth 5 MHz**

|                        |                |                          |              |
|------------------------|----------------|--------------------------|--------------|
| <b>Frequency Range</b> | 1GHz ~ 26.5GHz | <b>Operating Channel</b> | High Channel |
|------------------------|----------------|--------------------------|--------------|

| <b>SPURIOUS EMISSION LEVEL</b> |                             |                    |                    |                    |
|--------------------------------|-----------------------------|--------------------|--------------------|--------------------|
| <b>Frequency (MHz)</b>         | <b>Antenna Polarization</b> | <b>Level (dBm)</b> | <b>Limit (dBm)</b> | <b>Margin (dB)</b> |
| 3829.625                       | Vertical                    | -54.47             | -13                | -41.47             |
| 3829.625                       | Horizontal                  | -53.83             | -13                | -40.83             |
| 5717.875                       | Vertical                    | -54.23             | -13                | -41.23             |
| 5717.875                       | Horizontal                  | -53.8              | -13                | -40.8              |

**LTE CAT-M Band 25 Bandwidth 10 MHz**

|                        |                |                          |              |
|------------------------|----------------|--------------------------|--------------|
| <b>Frequency Range</b> | 1GHz ~ 26.5GHz | <b>Operating Channel</b> | High Channel |
|------------------------|----------------|--------------------------|--------------|

| <b>SPURIOUS EMISSION LEVEL</b> |                             |                    |                    |                    |
|--------------------------------|-----------------------------|--------------------|--------------------|--------------------|
| <b>Frequency (MHz)</b>         | <b>Antenna Polarization</b> | <b>Level (dBm)</b> | <b>Limit (dBm)</b> | <b>Margin (dB)</b> |
| 3829.625                       | Vertical                    | -51.66             | -13                | -38.66             |
| 3829.625                       | Horizontal                  | -51.73             | -13                | -38.73             |
| 5717.875                       | Vertical                    | -51.95             | -13                | -38.95             |
| 5713.625                       | Horizontal                  | -52.59             | -13                | -39.59             |

**LTE CAT-M Band 25 Bandwidth 15 MHz**

|                        |                |                          |              |
|------------------------|----------------|--------------------------|--------------|
| <b>Frequency Range</b> | 1GHz ~ 26.5GHz | <b>Operating Channel</b> | High Channel |
|------------------------|----------------|--------------------------|--------------|

| <b>SPURIOUS EMISSION LEVEL</b> |                             |                    |                    |                    |
|--------------------------------|-----------------------------|--------------------|--------------------|--------------------|
| <b>Frequency (MHz)</b>         | <b>Antenna Polarization</b> | <b>Level (dBm)</b> | <b>Limit (dBm)</b> | <b>Margin (dB)</b> |
| 3840.25                        | Vertical                    | -51.41             | -13                | -38.41             |
| 3838.125                       | Horizontal                  | -52.42             | -13                | -39.42             |
| 5724.25                        | Vertical                    | -52.76             | -13                | -39.76             |
| 5724.25                        | Horizontal                  | -51.96             | -13                | -38.96             |

**LTE CAT-M Band 25 Bandwidth 20 MHz**

|                        |                |                          |              |
|------------------------|----------------|--------------------------|--------------|
| <b>Frequency Range</b> | 1GHz ~ 26.5GHz | <b>Operating Channel</b> | High Channel |
|------------------------|----------------|--------------------------|--------------|

| <b>SPURIOUS EMISSION LEVEL</b> |                             |                    |                    |                    |
|--------------------------------|-----------------------------|--------------------|--------------------|--------------------|
| <b>Frequency (MHz)</b>         | <b>Antenna Polarization</b> | <b>Level (dBm)</b> | <b>Limit (dBm)</b> | <b>Margin (dB)</b> |
| 3836                           | Vertical                    | -52.54             | -13                | -39.54             |
| 3827.5                         | Horizontal                  | -51.91             | -13                | -38.91             |
| 5717.875                       | Vertical                    | -53.34             | -13                | -40.34             |
| 5713.625                       | Horizontal                  | -52.91             | -13                | -39.91             |

**LTE CAT-M Band 26 Bandwidth 1.4 MHz**

|                        |                |                          |             |
|------------------------|----------------|--------------------------|-------------|
| <b>Frequency Range</b> | 1GHz ~ 26.5GHz | <b>Operating Channel</b> | Low Channel |
|------------------------|----------------|--------------------------|-------------|

| SPURIOUS EMISSION LEVEL |                      |             |             |             |
|-------------------------|----------------------|-------------|-------------|-------------|
| Frequency (MHz)         | Antenna Polarization | Level (dBm) | Limit (dBm) | Margin (dB) |
| 1663                    | Vertical             | -56.92      | -13         | -43.92      |
| 1663                    | Horizontal           | -56.93      | -13         | -43.93      |
| 2493.875                | Vertical             | -54.87      | -13         | -41.87      |
| 2493.875                | Horizontal           | -53.15      | -13         | -40.15      |

**LTE CAT-M Band 26 Bandwidth 3 MHz**

|                        |                |                          |             |
|------------------------|----------------|--------------------------|-------------|
| <b>Frequency Range</b> | 1GHz ~ 26.5GHz | <b>Operating Channel</b> | Low Channel |
|------------------------|----------------|--------------------------|-------------|

| SPURIOUS EMISSION LEVEL |                      |             |             |             |
|-------------------------|----------------------|-------------|-------------|-------------|
| Frequency (MHz)         | Antenna Polarization | Level (dBm) | Limit (dBm) | Margin (dB) |
| 1663                    | Vertical             | -56.30      | -13         | -43.3       |
| 1663                    | Horizontal           | -56.32      | -13         | -43.32      |
| 2493.875                | Vertical             | -54.62      | -13         | -41.62      |
| 2493.875                | Horizontal           | -53.30      | -13         | -40.3       |



**LTE CAT-M Band 26 Bandwidth 5 MHz**

|                        |                |                          |             |
|------------------------|----------------|--------------------------|-------------|
| <b>Frequency Range</b> | 1GHz ~ 26.5GHz | <b>Operating Channel</b> | Low Channel |
|------------------------|----------------|--------------------------|-------------|

| SPURIOUS EMISSION LEVEL |                      |             |             |             |
|-------------------------|----------------------|-------------|-------------|-------------|
| Frequency (MHz)         | Antenna Polarization | Level (dBm) | Limit (dBm) | Margin (dB) |
| 1663                    | Vertical             | -56.57      | -13         | -43.57      |
| 1660.875                | Horizontal           | -56.71      | -13         | -43.71      |
| 2496                    | Vertical             | -54.67      | -13         | -41.67      |
| 2493.875                | Horizontal           | -54.30      | -13         | -41.3       |

**LTE CAT-M Band 26 Bandwidth 10 MHz**

|                        |                |                          |             |
|------------------------|----------------|--------------------------|-------------|
| <b>Frequency Range</b> | 1GHz ~ 26.5GHz | <b>Operating Channel</b> | Low Channel |
|------------------------|----------------|--------------------------|-------------|

| SPURIOUS EMISSION LEVEL |                      |             |             |             |
|-------------------------|----------------------|-------------|-------------|-------------|
| Frequency (MHz)         | Antenna Polarization | Level (dBm) | Limit (dBm) | Margin (dB) |
| 1667.25                 | Vertical             | -57.23      | -13         | -44.23      |
| 1667.25                 | Horizontal           | -57.37      | -13         | -44.37      |
| 2491.75                 | Vertical             | -53.87      | -13         | -40.87      |
| 2491.75                 | Horizontal           | -53.87      | -13         | -40.87      |

**LTE CAT-M Band 26 Bandwidth 15 MHz**

|                        |                |                          |             |
|------------------------|----------------|--------------------------|-------------|
| <b>Frequency Range</b> | 1GHz ~ 26.5GHz | <b>Operating Channel</b> | Low Channel |
|------------------------|----------------|--------------------------|-------------|

| SPURIOUS EMISSION LEVEL |                      |             |             |             |
|-------------------------|----------------------|-------------|-------------|-------------|
| Frequency (MHz)         | Antenna Polarization | Level (dBm) | Limit (dBm) | Margin (dB) |
| 1663                    | Vertical             | -55.92      | -13         | -42.92      |
| 1663                    | Horizontal           | -55.94      | -13         | -42.94      |
| 2493.875                | Vertical             | -54.17      | -13         | -41.17      |
| 2489.625                | Horizontal           | -54.29      | -13         | -41.29      |

**LTE CAT-M Band 26 Bandwidth 1.4 MHz**

|                        |                |                          |             |
|------------------------|----------------|--------------------------|-------------|
| <b>Frequency Range</b> | 1GHz ~ 26.5GHz | <b>Operating Channel</b> | Mid Channel |
|------------------------|----------------|--------------------------|-------------|

| SPURIOUS EMISSION LEVEL |                      |             |             |             |
|-------------------------|----------------------|-------------|-------------|-------------|
| Frequency (MHz)         | Antenna Polarization | Level (dBm) | Limit (dBm) | Margin (dB) |
| 1663                    | Vertical             | -56.92      | -13         | -43.92      |
| 1663                    | Horizontal           | -56.93      | -13         | -43.93      |
| 2493.875                | Vertical             | -54.87      | -13         | -41.87      |
| 2493.875                | Horizontal           | -53.15      | -13         | -40.15      |

**LTE CAT-M Band 26 Bandwidth 3 MHz**

|                        |                |                          |             |
|------------------------|----------------|--------------------------|-------------|
| <b>Frequency Range</b> | 1GHz ~ 26.5GHz | <b>Operating Channel</b> | Mid Channel |
|------------------------|----------------|--------------------------|-------------|

| SPURIOUS EMISSION LEVEL |                      |             |             |             |
|-------------------------|----------------------|-------------|-------------|-------------|
| Frequency (MHz)         | Antenna Polarization | Level (dBm) | Limit (dBm) | Margin (dB) |
| 1663                    | Vertical             | -56.30      | -13         | -43.3       |
| 1663                    | Horizontal           | -56.32      | -13         | -43.32      |
| 2493.875                | Vertical             | -54.62      | -13         | -41.62      |
| 2493.875                | Horizontal           | -53.30      | -13         | -40.3       |

**LTE CAT-M Band 26 Bandwidth 5 MHz**

|                        |                |                          |             |
|------------------------|----------------|--------------------------|-------------|
| <b>Frequency Range</b> | 1GHz ~ 26.5GHz | <b>Operating Channel</b> | Mid Channel |
|------------------------|----------------|--------------------------|-------------|

| <b>SPURIOUS EMISSION LEVEL</b> |                             |                    |                    |                    |
|--------------------------------|-----------------------------|--------------------|--------------------|--------------------|
| <b>Frequency (MHz)</b>         | <b>Antenna Polarization</b> | <b>Level (dBm)</b> | <b>Limit (dBm)</b> | <b>Margin (dB)</b> |
| 1663                           | Vertical                    | -56.57             | -13                | -43.57             |
| 1660.875                       | Horizontal                  | -56.71             | -13                | -43.71             |
| 2496                           | Vertical                    | -54.67             | -13                | -41.67             |
| 2493.875                       | Horizontal                  | -54.30             | -13                | -41.3              |

**LTE CAT-M Band 26 Bandwidth 10 MHz**

|                        |                |                          |             |
|------------------------|----------------|--------------------------|-------------|
| <b>Frequency Range</b> | 1GHz ~ 26.5GHz | <b>Operating Channel</b> | Mid Channel |
|------------------------|----------------|--------------------------|-------------|

| <b>SPURIOUS EMISSION LEVEL</b> |                             |                    |                    |                    |
|--------------------------------|-----------------------------|--------------------|--------------------|--------------------|
| <b>Frequency (MHz)</b>         | <b>Antenna Polarization</b> | <b>Level (dBm)</b> | <b>Limit (dBm)</b> | <b>Margin (dB)</b> |
| 1667.25                        | Vertical                    | -57.23             | -13                | -44.23             |
| 1667.25                        | Horizontal                  | -57.37             | -13                | -44.37             |
| 2491.75                        | Vertical                    | -53.87             | -13                | -40.87             |
| 2491.75                        | Horizontal                  | -53.87             | -13                | -40.87             |

**LTE CAT-M Band 26 Bandwidth 15 MHz**

|                        |                |                          |             |
|------------------------|----------------|--------------------------|-------------|
| <b>Frequency Range</b> | 1GHz ~ 26.5GHz | <b>Operating Channel</b> | Mid Channel |
|------------------------|----------------|--------------------------|-------------|

| <b>SPURIOUS EMISSION LEVEL</b> |                             |                    |                    |                    |
|--------------------------------|-----------------------------|--------------------|--------------------|--------------------|
| <b>Frequency (MHz)</b>         | <b>Antenna Polarization</b> | <b>Level (dBm)</b> | <b>Limit (dBm)</b> | <b>Margin (dB)</b> |
| 1663                           | Vertical                    | -55.92             | -13                | -42.92             |
| 1663                           | Horizontal                  | -55.94             | -13                | -42.94             |
| 2493.875                       | Vertical                    | -54.17             | -13                | -41.17             |
| 2489.625                       | Horizontal                  | -54.29             | -13                | -41.29             |

**LTE CAT-M Band 26 Bandwidth 1.4 MHz**

|                        |                |                          |              |
|------------------------|----------------|--------------------------|--------------|
| <b>Frequency Range</b> | 1GHz ~ 26.5GHz | <b>Operating Channel</b> | High Channel |
|------------------------|----------------|--------------------------|--------------|

| <b>SPURIOUS EMISSION LEVEL</b> |                             |                    |                    |                    |
|--------------------------------|-----------------------------|--------------------|--------------------|--------------------|
| <b>Frequency (MHz)</b>         | <b>Antenna Polarization</b> | <b>Level (dBm)</b> | <b>Limit (dBm)</b> | <b>Margin (dB)</b> |
| 1698                           | Vertical                    | -56.94             | -13                | -43.94             |
| 1698                           | Horizontal                  | -57.04             | -13                | -44.04             |
| 2546.375                       | Vertical                    | -55.03             | -13                | -42.03             |
| 2546.375                       | Horizontal                  | -53.21             | -13                | -40.21             |

**LTE CAT-M Band 26 Bandwidth 3 MHz**

|                        |                |                          |              |
|------------------------|----------------|--------------------------|--------------|
| <b>Frequency Range</b> | 1GHz ~ 26.5GHz | <b>Operating Channel</b> | High Channel |
|------------------------|----------------|--------------------------|--------------|

| <b>SPURIOUS EMISSION LEVEL</b> |                             |                    |                    |                    |
|--------------------------------|-----------------------------|--------------------|--------------------|--------------------|
| <b>Frequency (MHz)</b>         | <b>Antenna Polarization</b> | <b>Level (dBm)</b> | <b>Limit (dBm)</b> | <b>Margin (dB)</b> |
| 1698                           | Vertical                    | -56.32             | -13                | -43.32             |
| 1698                           | Horizontal                  | -56.43             | -13                | -43.43             |
| 2546.375                       | Vertical                    | -54.78             | -13                | -41.78             |
| 2546.375                       | Horizontal                  | -53.36             | -13                | -40.36             |

**LTE CAT-M Band 26 Bandwidth 5 MHz**

|                        |                |                          |              |
|------------------------|----------------|--------------------------|--------------|
| <b>Frequency Range</b> | 1GHz ~ 26.5GHz | <b>Operating Channel</b> | High Channel |
|------------------------|----------------|--------------------------|--------------|

| <b>SPURIOUS EMISSION LEVEL</b> |                             |                    |                    |                    |
|--------------------------------|-----------------------------|--------------------|--------------------|--------------------|
| <b>Frequency (MHz)</b>         | <b>Antenna Polarization</b> | <b>Level (dBm)</b> | <b>Limit (dBm)</b> | <b>Margin (dB)</b> |
| 1698                           | Vertical                    | -56.59             | -13                | -43.59             |
| 1695.875                       | Horizontal                  | -56.82             | -13                | -43.82             |
| 2548.5                         | Vertical                    | -54.83             | -13                | -41.83             |
| 2546.375                       | Horizontal                  | -54.36             | -13                | -41.36             |

**LTE CAT-M Band 26 Bandwidth 10 MHz**

|                        |                |                          |              |
|------------------------|----------------|--------------------------|--------------|
| <b>Frequency Range</b> | 1GHz ~ 26.5GHz | <b>Operating Channel</b> | High Channel |
|------------------------|----------------|--------------------------|--------------|

| <b>SPURIOUS EMISSION LEVEL</b> |                             |                    |                    |                    |
|--------------------------------|-----------------------------|--------------------|--------------------|--------------------|
| <b>Frequency (MHz)</b>         | <b>Antenna Polarization</b> | <b>Level (dBm)</b> | <b>Limit (dBm)</b> | <b>Margin (dB)</b> |
| 1702.25                        | Vertical                    | -57.25             | -13                | -44.25             |
| 1702.25                        | Horizontal                  | -57.48             | -13                | -44.48             |
| 2544.25                        | Vertical                    | -54.03             | -13                | -41.03             |
| 2544.25                        | Horizontal                  | -53.93             | -13                | -40.93             |

**LTE CAT-M Band 26 Bandwidth 15 MHz**

|                        |                |                          |              |
|------------------------|----------------|--------------------------|--------------|
| <b>Frequency Range</b> | 1GHz ~ 26.5GHz | <b>Operating Channel</b> | High Channel |
|------------------------|----------------|--------------------------|--------------|

| <b>SPURIOUS EMISSION LEVEL</b> |                             |                    |                    |                    |
|--------------------------------|-----------------------------|--------------------|--------------------|--------------------|
| <b>Frequency (MHz)</b>         | <b>Antenna Polarization</b> | <b>Level (dBm)</b> | <b>Limit (dBm)</b> | <b>Margin (dB)</b> |
| 1698                           | Vertical                    | -55.94             | -13                | -42.94             |
| 1698                           | Horizontal                  | -56.05             | -13                | -43.05             |
| 2546.375                       | Vertical                    | -54.33             | -13                | -41.33             |
| 2542.125                       | Horizontal                  | -54.35             | -13                | -41.35             |

**LTE CAT-M Band 66 Bandwidth 1.4 MHz**

|                        |                |                          |             |
|------------------------|----------------|--------------------------|-------------|
| <b>Frequency Range</b> | 1GHz ~ 26.5GHz | <b>Operating Channel</b> | Low Channel |
|------------------------|----------------|--------------------------|-------------|

| SPURIOUS EMISSION LEVEL |                      |             |             |             |
|-------------------------|----------------------|-------------|-------------|-------------|
| Frequency (MHz)         | Antenna Polarization | Level (dBm) | Limit (dBm) | Margin (dB) |
| 3439.625                | Vertical             | -55.17      | -13         | -42.17      |
| 3439.625                | Horizontal           | -53.05      | -13         | -40.05      |
| 5159.875                | Vertical             | -53.08      | -13         | -40.08      |
| 5159.875                | Horizontal           | -54.76      | -13         | -41.76      |

**LTE CAT-M Band 66 Bandwidth 3 MHz**

|                        |                |                          |             |
|------------------------|----------------|--------------------------|-------------|
| <b>Frequency Range</b> | 1GHz ~ 26.5GHz | <b>Operating Channel</b> | Low Channel |
|------------------------|----------------|--------------------------|-------------|

| SPURIOUS EMISSION LEVEL |                      |             |             |             |
|-------------------------|----------------------|-------------|-------------|-------------|
| Frequency (MHz)         | Antenna Polarization | Level (dBm) | Limit (dBm) | Margin (dB) |
| 3439.625                | Vertical             | -55.17      | -13         | -42.17      |
| 3439.625                | Horizontal           | -54.06      | -13         | -41.06      |
| 5159.875                | Vertical             | -55.47      | -13         | -42.47      |
| 5159.875                | Horizontal           | -54.06      | -13         | -41.06      |

**LTE CAT-M Band 66 Bandwidth 5 MHz**

|                        |                |                          |             |
|------------------------|----------------|--------------------------|-------------|
| <b>Frequency Range</b> | 1GHz ~ 26.5GHz | <b>Operating Channel</b> | Low Channel |
|------------------------|----------------|--------------------------|-------------|

| SPURIOUS EMISSION LEVEL |                      |             |             |             |
|-------------------------|----------------------|-------------|-------------|-------------|
| Frequency (MHz)         | Antenna Polarization | Level (dBm) | Limit (dBm) | Margin (dB) |
| 3441.75                 | Vertical             | -53.84      | -13         | -40.84      |
| 3441.75                 | Horizontal           | -53.78      | -13         | -40.78      |
| 5157.75                 | Vertical             | -54.03      | -13         | -41.03      |
| 5157.75                 | Horizontal           | -54.03      | -13         | -41.03      |

**LTE CAT-M Band 66 Bandwidth 10 MHz**

|                        |                |                          |             |
|------------------------|----------------|--------------------------|-------------|
| <b>Frequency Range</b> | 1GHz ~ 26.5GHz | <b>Operating Channel</b> | Low Channel |
|------------------------|----------------|--------------------------|-------------|

| <b>SPURIOUS EMISSION LEVEL</b> |                             |                    |                    |                    |
|--------------------------------|-----------------------------|--------------------|--------------------|--------------------|
| <b>Frequency (MHz)</b>         | <b>Antenna Polarization</b> | <b>Level (dBm)</b> | <b>Limit (dBm)</b> | <b>Margin (dB)</b> |
| 3443.875                       | Vertical                    | -53.38             | -13                | -40.38             |
| 3443.875                       | Horizontal                  | -53.33             | -13                | -40.33             |
| 5155.625                       | Vertical                    | -53.59             | -13                | -40.59             |
| 5162                           | Horizontal                  | -52.62             | -13                | -39.62             |

**LTE CAT-M Band 66 Bandwidth 15 MHz**

|                        |                |                          |             |
|------------------------|----------------|--------------------------|-------------|
| <b>Frequency Range</b> | 1GHz ~ 26.5GHz | <b>Operating Channel</b> | Low Channel |
|------------------------|----------------|--------------------------|-------------|

| <b>SPURIOUS EMISSION LEVEL</b> |                             |                    |                    |                    |
|--------------------------------|-----------------------------|--------------------|--------------------|--------------------|
| <b>Frequency (MHz)</b>         | <b>Antenna Polarization</b> | <b>Level (dBm)</b> | <b>Limit (dBm)</b> | <b>Margin (dB)</b> |
| 3437.5                         | Vertical                    | -53.33             | -13                | -40.33             |
| 3437.5                         | Horizontal                  | -53.26             | -13                | -40.26             |
| 5159.875                       | Vertical                    | -54.22             | -13                | -41.22             |
| 5153.5                         | Horizontal                  | -53.08             | -13                | -40.08             |

**LTE CAT-M Band 66 Bandwidth 20 MHz**

|                        |                |                          |             |
|------------------------|----------------|--------------------------|-------------|
| <b>Frequency Range</b> | 1GHz ~ 26.5GHz | <b>Operating Channel</b> | Low Channel |
|------------------------|----------------|--------------------------|-------------|

| <b>SPURIOUS EMISSION LEVEL</b> |                             |                    |                    |                    |
|--------------------------------|-----------------------------|--------------------|--------------------|--------------------|
| <b>Frequency (MHz)</b>         | <b>Antenna Polarization</b> | <b>Level (dBm)</b> | <b>Limit (dBm)</b> | <b>Margin (dB)</b> |
| 3446                           | Vertical                    | -53.2              | -13                | -40.2              |
| 3441.75                        | Horizontal                  | -53.29             | -13                | -40.29             |
| 5153.5                         | Vertical                    | -53.73             | -13                | -40.73             |
| 5155.625                       | Horizontal                  | -53.43             | -13                | -40.43             |

**LTE CAT-M Band 66 Bandwidth 1.4 MHz**

|                        |                |                          |             |
|------------------------|----------------|--------------------------|-------------|
| <b>Frequency Range</b> | 1GHz ~ 26.5GHz | <b>Operating Channel</b> | Mid Channel |
|------------------------|----------------|--------------------------|-------------|

| SPURIOUS EMISSION LEVEL |                      |             |             |             |
|-------------------------|----------------------|-------------|-------------|-------------|
| Frequency (MHz)         | Antenna Polarization | Level (dBm) | Limit (dBm) | Margin (dB) |
| 3509.625                | Vertical             | -55.03      | -13         | -42.03      |
| 3509.625                | Horizontal           | -52.91      | -13         | -39.91      |
| 5264.875                | Vertical             | -52.94      | -13         | -39.94      |
| 5264.875                | Horizontal           | -54.62      | -13         | -41.62      |

**LTE CAT-M Band 66 Bandwidth 3 MHz**

|                        |                |                          |             |
|------------------------|----------------|--------------------------|-------------|
| <b>Frequency Range</b> | 1GHz ~ 26.5GHz | <b>Operating Channel</b> | Mid Channel |
|------------------------|----------------|--------------------------|-------------|

| SPURIOUS EMISSION LEVEL |                      |             |             |             |
|-------------------------|----------------------|-------------|-------------|-------------|
| Frequency (MHz)         | Antenna Polarization | Level (dBm) | Limit (dBm) | Margin (dB) |
| 3509.625                | Vertical             | -55.03      | -13         | -42.03      |
| 3509.625                | Horizontal           | -53.92      | -13         | -40.92      |
| 5264.875                | Vertical             | -55.33      | -13         | -42.33      |
| 5264.875                | Horizontal           | -53.92      | -13         | -40.92      |

**LTE CAT-M Band 66 Bandwidth 5 MHz**

|                        |                |                          |             |
|------------------------|----------------|--------------------------|-------------|
| <b>Frequency Range</b> | 1GHz ~ 26.5GHz | <b>Operating Channel</b> | Mid Channel |
|------------------------|----------------|--------------------------|-------------|

| SPURIOUS EMISSION LEVEL |                      |             |             |             |
|-------------------------|----------------------|-------------|-------------|-------------|
| Frequency (MHz)         | Antenna Polarization | Level (dBm) | Limit (dBm) | Margin (dB) |
| 3511.75                 | Vertical             | -53.70      | -13         | -40.7       |
| 3511.75                 | Horizontal           | -53.64      | -13         | -40.64      |
| 5262.75                 | Vertical             | -53.89      | -13         | -40.89      |
| 5262.75                 | Horizontal           | -53.89      | -13         | -40.89      |



**LTE CAT-M Band 66 Bandwidth 10 MHz**

|                        |                |                          |             |
|------------------------|----------------|--------------------------|-------------|
| <b>Frequency Range</b> | 1GHz ~ 26.5GHz | <b>Operating Channel</b> | Mid Channel |
|------------------------|----------------|--------------------------|-------------|

| <b>SPURIOUS EMISSION LEVEL</b> |                             |                    |                    |                    |
|--------------------------------|-----------------------------|--------------------|--------------------|--------------------|
| <b>Frequency (MHz)</b>         | <b>Antenna Polarization</b> | <b>Level (dBm)</b> | <b>Limit (dBm)</b> | <b>Margin (dB)</b> |
| 3513.875                       | Vertical                    | -53.24             | -13                | -40.24             |
| 3513.875                       | Horizontal                  | -53.19             | -13                | -40.19             |
| 5260.625                       | Vertical                    | -53.45             | -13                | -40.45             |
| 5267                           | Horizontal                  | -52.48             | -13                | -39.48             |

**LTE CAT-M Band 66 Bandwidth 15 MHz**

|                        |                |                          |             |
|------------------------|----------------|--------------------------|-------------|
| <b>Frequency Range</b> | 1GHz ~ 26.5GHz | <b>Operating Channel</b> | Mid Channel |
|------------------------|----------------|--------------------------|-------------|

| <b>SPURIOUS EMISSION LEVEL</b> |                             |                    |                    |                    |
|--------------------------------|-----------------------------|--------------------|--------------------|--------------------|
| <b>Frequency (MHz)</b>         | <b>Antenna Polarization</b> | <b>Level (dBm)</b> | <b>Limit (dBm)</b> | <b>Margin (dB)</b> |
| 3507.5                         | Vertical                    | -53.19             | -13                | -40.19             |
| 3507.5                         | Horizontal                  | -53.12             | -13                | -40.12             |
| 5264.875                       | Vertical                    | -54.08             | -13                | -41.08             |
| 5258.5                         | Horizontal                  | -52.94             | -13                | -39.94             |

**LTE CAT-M Band 66 Bandwidth 20 MHz**

|                        |                |                          |             |
|------------------------|----------------|--------------------------|-------------|
| <b>Frequency Range</b> | 1GHz ~ 26.5GHz | <b>Operating Channel</b> | Mid Channel |
|------------------------|----------------|--------------------------|-------------|

| <b>SPURIOUS EMISSION LEVEL</b> |                             |                    |                    |                    |
|--------------------------------|-----------------------------|--------------------|--------------------|--------------------|
| <b>Frequency (MHz)</b>         | <b>Antenna Polarization</b> | <b>Level (dBm)</b> | <b>Limit (dBm)</b> | <b>Margin (dB)</b> |
| 3516                           | Vertical                    | -53.06             | -13                | -40.06             |
| 3511.75                        | Horizontal                  | -53.15             | -13                | -40.15             |
| 5258.5                         | Vertical                    | -53.59             | -13                | -40.59             |
| 5260.625                       | Horizontal                  | -53.29             | -13                | -40.29             |

**LTE CAT-M Band 66 Bandwidth 1.4 MHz**

|                        |                |                          |              |
|------------------------|----------------|--------------------------|--------------|
| <b>Frequency Range</b> | 1GHz ~ 26.5GHz | <b>Operating Channel</b> | High Channel |
|------------------------|----------------|--------------------------|--------------|

| <b>SPURIOUS EMISSION LEVEL</b> |                             |                    |                    |                    |
|--------------------------------|-----------------------------|--------------------|--------------------|--------------------|
| <b>Frequency (MHz)</b>         | <b>Antenna Polarization</b> | <b>Level (dBm)</b> | <b>Limit (dBm)</b> | <b>Margin (dB)</b> |
| 3579.625                       | Vertical                    | -55.05             | -13                | -42.05             |
| 3579.625                       | Horizontal                  | -53.02             | -13                | -40.02             |
| 5369.875                       | Vertical                    | -53.1              | -13                | -40.1              |
| 5369.875                       | Horizontal                  | -54.68             | -13                | -41.68             |

**LTE CAT-M Band 66 Bandwidth 3 MHz**

|                        |                |                          |              |
|------------------------|----------------|--------------------------|--------------|
| <b>Frequency Range</b> | 1GHz ~ 26.5GHz | <b>Operating Channel</b> | High Channel |
|------------------------|----------------|--------------------------|--------------|

| <b>SPURIOUS EMISSION LEVEL</b> |                             |                    |                    |                    |
|--------------------------------|-----------------------------|--------------------|--------------------|--------------------|
| <b>Frequency (MHz)</b>         | <b>Antenna Polarization</b> | <b>Level (dBm)</b> | <b>Limit (dBm)</b> | <b>Margin (dB)</b> |
| 3579.625                       | Vertical                    | -55.05             | -13                | -42.05             |
| 3579.625                       | Horizontal                  | -54.03             | -13                | -41.03             |
| 5369.875                       | Vertical                    | -55.49             | -13                | -42.49             |
| 5369.875                       | Horizontal                  | -53.98             | -13                | -40.98             |

**LTE CAT-M Band 66 Bandwidth 5 MHz**

|                        |                |                          |              |
|------------------------|----------------|--------------------------|--------------|
| <b>Frequency Range</b> | 1GHz ~ 26.5GHz | <b>Operating Channel</b> | High Channel |
|------------------------|----------------|--------------------------|--------------|

| <b>SPURIOUS EMISSION LEVEL</b> |                             |                    |                    |                    |
|--------------------------------|-----------------------------|--------------------|--------------------|--------------------|
| <b>Frequency (MHz)</b>         | <b>Antenna Polarization</b> | <b>Level (dBm)</b> | <b>Limit (dBm)</b> | <b>Margin (dB)</b> |
| 3581.75                        | Vertical                    | -53.72             | -13                | -40.72             |
| 3581.75                        | Horizontal                  | -53.75             | -13                | -40.75             |
| 5367.75                        | Vertical                    | -54.05             | -13                | -41.05             |
| 5367.75                        | Horizontal                  | -53.95             | -13                | -40.95             |

**LTE CAT-M Band 66 Bandwidth 10 MHz**

|                        |                |                          |              |
|------------------------|----------------|--------------------------|--------------|
| <b>Frequency Range</b> | 1GHz ~ 26.5GHz | <b>Operating Channel</b> | High Channel |
|------------------------|----------------|--------------------------|--------------|

| <b>SPURIOUS EMISSION LEVEL</b> |                             |                    |                    |                    |
|--------------------------------|-----------------------------|--------------------|--------------------|--------------------|
| <b>Frequency (MHz)</b>         | <b>Antenna Polarization</b> | <b>Level (dBm)</b> | <b>Limit (dBm)</b> | <b>Margin (dB)</b> |
| 3583.875                       | Vertical                    | -53.26             | -13                | -40.26             |
| 3583.875                       | Horizontal                  | -53.3              | -13                | -40.3              |
| 5365.625                       | Vertical                    | -53.61             | -13                | -40.61             |
| 5372                           | Horizontal                  | -52.54             | -13                | -39.54             |

**LTE CAT-M Band 66 Bandwidth 15 MHz**

|                        |                |                          |              |
|------------------------|----------------|--------------------------|--------------|
| <b>Frequency Range</b> | 1GHz ~ 26.5GHz | <b>Operating Channel</b> | High Channel |
|------------------------|----------------|--------------------------|--------------|

| <b>SPURIOUS EMISSION LEVEL</b> |                             |                    |                    |                    |
|--------------------------------|-----------------------------|--------------------|--------------------|--------------------|
| <b>Frequency (MHz)</b>         | <b>Antenna Polarization</b> | <b>Level (dBm)</b> | <b>Limit (dBm)</b> | <b>Margin (dB)</b> |
| 3577.5                         | Vertical                    | -53.21             | -13                | -40.21             |
| 3577.5                         | Horizontal                  | -53.23             | -13                | -40.23             |
| 5369.875                       | Vertical                    | -54.24             | -13                | -41.24             |
| 5363.5                         | Horizontal                  | -53                | -13                | -40                |

**LTE CAT-M Band 66 Bandwidth 20 MHz**

|                        |                |                          |              |
|------------------------|----------------|--------------------------|--------------|
| <b>Frequency Range</b> | 1GHz ~ 26.5GHz | <b>Operating Channel</b> | High Channel |
|------------------------|----------------|--------------------------|--------------|

| <b>SPURIOUS EMISSION LEVEL</b> |                             |                    |                    |                    |
|--------------------------------|-----------------------------|--------------------|--------------------|--------------------|
| <b>Frequency (MHz)</b>         | <b>Antenna Polarization</b> | <b>Level (dBm)</b> | <b>Limit (dBm)</b> | <b>Margin (dB)</b> |
| 3586                           | Vertical                    | -53.08             | -13                | -40.08             |
| 3581.75                        | Horizontal                  | -53.26             | -13                | -40.26             |
| 5363.5                         | Vertical                    | -53.75             | -13                | -40.75             |
| 5365.625                       | Horizontal                  | -53.35             | -13                | -40.35             |

**LTE NB-IOT Band 2 Bandwidth 5 MHz**

|                        |                |                          |             |
|------------------------|----------------|--------------------------|-------------|
| <b>Frequency Range</b> | 1GHz ~ 26.5GHz | <b>Operating Channel</b> | Low Channel |
|------------------------|----------------|--------------------------|-------------|

| <b>SPURIOUS EMISSION LEVEL</b> |                             |                    |                    |                    |
|--------------------------------|-----------------------------|--------------------|--------------------|--------------------|
| <b>Frequency (MHz)</b>         | <b>Antenna Polarization</b> | <b>Level (dBm)</b> | <b>Limit (dBm)</b> | <b>Margin (dB)</b> |
| 3698.25                        | Vertical                    | -55.34             | -13                | -42.34             |
| 3698.25                        | Horizontal                  | -55.33             | -13                | -42.33             |
| 5548.875                       | Vertical                    | -53.36             | -13                | -40.36             |
| 5548.875                       | Horizontal                  | -53.34             | -13                | -40.34             |

**LTE NB-IOT Band 2 Bandwidth 5 MHz**

|                        |                |                          |             |
|------------------------|----------------|--------------------------|-------------|
| <b>Frequency Range</b> | 1GHz ~ 26.5GHz | <b>Operating Channel</b> | Mid Channel |
|------------------------|----------------|--------------------------|-------------|

| <b>SPURIOUS EMISSION LEVEL</b> |                             |                    |                    |                    |
|--------------------------------|-----------------------------|--------------------|--------------------|--------------------|
| <b>Frequency (MHz)</b>         | <b>Antenna Polarization</b> | <b>Level (dBm)</b> | <b>Limit (dBm)</b> | <b>Margin (dB)</b> |
| 3758.25                        | Vertical                    | -55.20             | -13                | -42.2              |
| 3758.25                        | Horizontal                  | -55.19             | -13                | -42.19             |
| 5638.875                       | Vertical                    | -53.22             | -13                | -40.22             |
| 5638.875                       | Horizontal                  | -53.20             | -13                | -40.2              |

**LTE NB-IOT Band 2 Bandwidth 5 MHz**

|                        |                |                          |              |
|------------------------|----------------|--------------------------|--------------|
| <b>Frequency Range</b> | 1GHz ~ 26.5GHz | <b>Operating Channel</b> | High Channel |
|------------------------|----------------|--------------------------|--------------|

| <b>SPURIOUS EMISSION LEVEL</b> |                             |                    |                    |                    |
|--------------------------------|-----------------------------|--------------------|--------------------|--------------------|
| <b>Frequency (MHz)</b>         | <b>Antenna Polarization</b> | <b>Level (dBm)</b> | <b>Limit (dBm)</b> | <b>Margin (dB)</b> |
| 3818.25                        | Vertical                    | -55.22             | -13                | -42.22             |
| 3818.25                        | Horizontal                  | -55.3              | -13                | -42.3              |
| 5728.875                       | Vertical                    | -53.38             | -13                | -40.38             |
| 5728.875                       | Horizontal                  | -53.26             | -13                | -40.26             |

**LTE NB-IOT Band 4 Bandwidth 5 MHz**

|                        |                |                          |             |
|------------------------|----------------|--------------------------|-------------|
| <b>Frequency Range</b> | 1GHz ~ 26.5GHz | <b>Operating Channel</b> | Low Channel |
|------------------------|----------------|--------------------------|-------------|

| SPURIOUS EMISSION LEVEL |                      |             |             |             |
|-------------------------|----------------------|-------------|-------------|-------------|
| Frequency (MHz)         | Antenna Polarization | Level (dBm) | Limit (dBm) | Margin (dB) |
| 3417.875                | Vertical             | -56.79      | -13         | -43.79      |
| 3422.125                | Horizontal           | -56.05      | -13         | -43.05      |
| 5266.5                  | Vertical             | -57.12      | -13         | -44.12      |
| 5199                    | Horizontal           | -56.48      | -13         | -43.48      |
| 6930.875                | Vertical             | -56.98      | -13         | -43.98      |
| 6930.875                | Horizontal           | -55.92      | -13         | -42.92      |

**LTE NB-IOT Band 4 Bandwidth 5 MHz**

|                        |                |                          |             |
|------------------------|----------------|--------------------------|-------------|
| <b>Frequency Range</b> | 1GHz ~ 26.5GHz | <b>Operating Channel</b> | Mid Channel |
|------------------------|----------------|--------------------------|-------------|

| SPURIOUS EMISSION LEVEL |                      |             |             |             |
|-------------------------|----------------------|-------------|-------------|-------------|
| Frequency (MHz)         | Antenna Polarization | Level (dBm) | Limit (dBm) | Margin (dB) |
| 3462.875                | Vertical             | -56.65      | -13         | -43.65      |
| 3467.125                | Horizontal           | -55.91      | -13         | -42.91      |
| 5199                    | Vertical             | -56.98      | -13         | -43.98      |
| 5199                    | Horizontal           | -56.34      | -13         | -43.34      |
| 6930.875                | Vertical             | -56.84      | -13         | -43.84      |
| 6930.875                | Horizontal           | -55.78      | -13         | -42.78      |

**LTE NB-IOT Band 4 Bandwidth 5 MHz**

|                        |                |                          |              |
|------------------------|----------------|--------------------------|--------------|
| <b>Frequency Range</b> | 1GHz ~ 26.5GHz | <b>Operating Channel</b> | High Channel |
|------------------------|----------------|--------------------------|--------------|

| SPURIOUS EMISSION LEVEL |                      |             |             |             |
|-------------------------|----------------------|-------------|-------------|-------------|
| Frequency (MHz)         | Antenna Polarization | Level (dBm) | Limit (dBm) | Margin (dB) |
| 3507.875                | Vertical             | -56.67      | -13         | -43.67      |
| 3512.125                | Horizontal           | -56.02      | -13         | -43.02      |
| 5266.5                  | Vertical             | -57.14      | -13         | -44.14      |
| 5199                    | Horizontal           | -56.4       | -13         | -43.4       |
| 6930.875                | Vertical             | -56.86      | -13         | -43.86      |
| 6930.875                | Horizontal           | -55.89      | -13         | -42.89      |

**LTE NB-IOT Band 5 Bandwidth 5 MHz**

|                        |                |                          |             |
|------------------------|----------------|--------------------------|-------------|
| <b>Frequency Range</b> | 1GHz ~ 26.5GHz | <b>Operating Channel</b> | Low Channel |
|------------------------|----------------|--------------------------|-------------|

| <b>SPURIOUS EMISSION LEVEL</b> |                             |                    |                    |                    |
|--------------------------------|-----------------------------|--------------------|--------------------|--------------------|
| <b>Frequency (MHz)</b>         | <b>Antenna Polarization</b> | <b>Level (dBm)</b> | <b>Limit (dBm)</b> | <b>Margin (dB)</b> |
| 1646.5                         | Vertical                    | -52.94             | -13                | -39.94             |
| 1646.5                         | Horizontal                  | -55.52             | -13                | -42.52             |
| 2473.375                       | Vertical                    | -53.49             | -13                | -40.49             |
| 2473.375                       | Horizontal                  | -53.58             | -13                | -40.58             |
| 3296                           | Vertical                    | -43.14             | -13                | -30.14             |
| 3296                           | Horizontal                  | -43.19             | -13                | -30.19             |

**LTE NB-IOT Band 5 Bandwidth 5 MHz**

|                        |                |                          |             |
|------------------------|----------------|--------------------------|-------------|
| <b>Frequency Range</b> | 1GHz ~ 26.5GHz | <b>Operating Channel</b> | Mid Channel |
|------------------------|----------------|--------------------------|-------------|

| <b>SPURIOUS EMISSION LEVEL</b> |                             |                    |                    |                    |
|--------------------------------|-----------------------------|--------------------|--------------------|--------------------|
| <b>Frequency (MHz)</b>         | <b>Antenna Polarization</b> | <b>Level (dBm)</b> | <b>Limit (dBm)</b> | <b>Margin (dB)</b> |
| 1671.5                         | Vertical                    | -52.80             | -13                | -39.8              |
| 1671.5                         | Horizontal                  | -55.38             | -13                | -42.38             |
| 2510.875                       | Vertical                    | -53.35             | -13                | -40.35             |
| 2510.875                       | Horizontal                  | -53.44             | -13                | -40.44             |
| 3346                           | Vertical                    | -43.00             | -13                | -30                |
| 3346                           | Horizontal                  | -43.05             | -13                | -30.05             |

**LTE NB-IOT Band 5 Bandwidth 5 MHz**

|                        |                |                          |              |
|------------------------|----------------|--------------------------|--------------|
| <b>Frequency Range</b> | 1GHz ~ 26.5GHz | <b>Operating Channel</b> | High Channel |
|------------------------|----------------|--------------------------|--------------|

| <b>SPURIOUS EMISSION LEVEL</b> |                             |                    |                    |                    |
|--------------------------------|-----------------------------|--------------------|--------------------|--------------------|
| <b>Frequency (MHz)</b>         | <b>Antenna Polarization</b> | <b>Level (dBm)</b> | <b>Limit (dBm)</b> | <b>Margin (dB)</b> |
| 1696.5                         | Vertical                    | -52.82             | -13                | -39.82             |
| 1696.5                         | Horizontal                  | -55.49             | -13                | -42.49             |
| 2548.375                       | Vertical                    | -53.51             | -13                | -40.51             |
| 2548.375                       | Horizontal                  | -53.5              | -13                | -40.5              |
| 3396                           | Vertical                    | -43.02             | -13                | -30.02             |
| 3396                           | Horizontal                  | -43.16             | -13                | -30.16             |

**LTE NB-IOT Band 12 Bandwidth 5 MHz**

|                        |                |                          |             |
|------------------------|----------------|--------------------------|-------------|
| <b>Frequency Range</b> | 1GHz ~ 26.5GHz | <b>Operating Channel</b> | Low Channel |
|------------------------|----------------|--------------------------|-------------|

| <b>SPURIOUS EMISSION LEVEL</b> |                             |                    |                    |                    |
|--------------------------------|-----------------------------|--------------------|--------------------|--------------------|
| <b>Frequency (MHz)</b>         | <b>Antenna Polarization</b> | <b>Level (dBm)</b> | <b>Limit (dBm)</b> | <b>Margin (dB)</b> |
| 1397.375                       | Vertical                    | -49.48             | -13                | -36.48             |
| 1397.375                       | Horizontal                  | -49.4              | -13                | -36.4              |
| 2094.875                       | Vertical                    | -51.41             | -13                | -38.41             |
| 2097                           | Horizontal                  | -49.03             | -13                | -36.03             |

**LTE NB-IOT Band 12 Bandwidth 5 MHz**

|                        |                |                          |             |
|------------------------|----------------|--------------------------|-------------|
| <b>Frequency Range</b> | 1GHz ~ 26.5GHz | <b>Operating Channel</b> | Mid Channel |
|------------------------|----------------|--------------------------|-------------|

| <b>SPURIOUS EMISSION LEVEL</b> |                             |                    |                    |                    |
|--------------------------------|-----------------------------|--------------------|--------------------|--------------------|
| <b>Frequency (MHz)</b>         | <b>Antenna Polarization</b> | <b>Level (dBm)</b> | <b>Limit (dBm)</b> | <b>Margin (dB)</b> |
| 1414.375                       | Vertical                    | -49.34             | -13                | -36.34             |
| 1414.375                       | Horizontal                  | -49.26             | -13                | -36.26             |
| 2119.875                       | Vertical                    | -51.27             | -13                | -38.27             |
| 2122                           | Horizontal                  | -48.89             | -13                | -35.89             |

**LTE NB-IOT Band 12 Bandwidth 5 MHz**

|                        |                |                          |              |
|------------------------|----------------|--------------------------|--------------|
| <b>Frequency Range</b> | 1GHz ~ 26.5GHz | <b>Operating Channel</b> | High Channel |
|------------------------|----------------|--------------------------|--------------|

| <b>SPURIOUS EMISSION LEVEL</b> |                             |                    |                    |                    |
|--------------------------------|-----------------------------|--------------------|--------------------|--------------------|
| <b>Frequency (MHz)</b>         | <b>Antenna Polarization</b> | <b>Level (dBm)</b> | <b>Limit (dBm)</b> | <b>Margin (dB)</b> |
| 1431.375                       | Vertical                    | -49.36             | -13                | -36.36             |
| 1431.375                       | Horizontal                  | -49.37             | -13                | -36.37             |
| 2145.375                       | Vertical                    | -51.43             | -13                | -38.43             |
| 2147.5                         | Horizontal                  | -48.95             | -13                | -35.95             |

**LTE NB-IOT Band 13 Bandwidth 5 MHz**

|                        |                |                          |             |
|------------------------|----------------|--------------------------|-------------|
| <b>Frequency Range</b> | 1GHz ~ 26.5GHz | <b>Operating Channel</b> | Low Channel |
|------------------------|----------------|--------------------------|-------------|

| SPURIOUS EMISSION LEVEL |                      |             |             |             |
|-------------------------|----------------------|-------------|-------------|-------------|
| Frequency (MHz)         | Antenna Polarization | Level (dBm) | Limit (dBm) | Margin (dB) |
| 1553.125                | Vertical             | -57.65      | -13         | -44.65      |
| 1553.125                | Horizontal           | -57.64      | -13         | -44.64      |
| 2328                    | Vertical             | -54.97      | -13         | -41.97      |
| 2330.125                | Horizontal           | -52.73      | -13         | -39.73      |
| 3107.125                | Vertical             | -53.62      | -13         | -40.62      |
| 3109.25                 | Horizontal           | -53.4       | -13         | -40.4       |

**LTE NB-IOT Band 13 Bandwidth 5 MHz**

|                        |                |                          |             |
|------------------------|----------------|--------------------------|-------------|
| <b>Frequency Range</b> | 1GHz ~ 26.5GHz | <b>Operating Channel</b> | Mid Channel |
|------------------------|----------------|--------------------------|-------------|

| SPURIOUS EMISSION LEVEL |                      |             |             |             |
|-------------------------|----------------------|-------------|-------------|-------------|
| Frequency (MHz)         | Antenna Polarization | Level (dBm) | Limit (dBm) | Margin (dB) |
| 1563.125                | Vertical             | -57.51      | -13         | -44.51      |
| 1563.125                | Horizontal           | -57.50      | -13         | -44.5       |
| 2343                    | Vertical             | -54.83      | -13         | -41.83      |
| 2345.125                | Horizontal           | -52.59      | -13         | -39.59      |
| 3127.125                | Vertical             | -53.48      | -13         | -40.48      |
| 3129.25                 | Horizontal           | -53.26      | -13         | -40.26      |

**LTE NB-IOT Band 13 Bandwidth 5 MHz**

|                        |                |                          |              |
|------------------------|----------------|--------------------------|--------------|
| <b>Frequency Range</b> | 1GHz ~ 26.5GHz | <b>Operating Channel</b> | High Channel |
|------------------------|----------------|--------------------------|--------------|

| SPURIOUS EMISSION LEVEL |                      |             |             |             |
|-------------------------|----------------------|-------------|-------------|-------------|
| Frequency (MHz)         | Antenna Polarization | Level (dBm) | Limit (dBm) | Margin (dB) |
| 1573.125                | Vertical             | -57.53      | -13         | -44.53      |
| 1573.125                | Horizontal           | -57.61      | -13         | -44.61      |
| 2358                    | Vertical             | -54.99      | -13         | -41.99      |
| 2360.125                | Horizontal           | -52.65      | -13         | -39.65      |
| 3147.125                | Vertical             | -53.5       | -13         | -40.5       |
| 3149.25                 | Horizontal           | -53.37      | -13         | -40.37      |



**LTE NB-IOT Band 17 Bandwidth 5 MHz**

|                        |                |                          |             |
|------------------------|----------------|--------------------------|-------------|
| <b>Frequency Range</b> | 1GHz ~ 26.5GHz | <b>Operating Channel</b> | Low Channel |
|------------------------|----------------|--------------------------|-------------|

| SPURIOUS EMISSION LEVEL |                      |             |             |             |
|-------------------------|----------------------|-------------|-------------|-------------|
| Frequency (MHz)         | Antenna Polarization | Level (dBm) | Limit (dBm) | Margin (dB) |
| 1406.625                | Vertical             | -49.25      | -13         | -36.25      |
| 1406.625                | Horizontal           | -49.19      | -13         | -36.19      |
| 2110.375                | Vertical             | -49.61      | -13         | -36.61      |
| 2110.375                | Horizontal           | -48.48      | -13         | -35.48      |

**LTE NB-IOT Band 17 Bandwidth 5 MHz**

|                        |                |                          |             |
|------------------------|----------------|--------------------------|-------------|
| <b>Frequency Range</b> | 1GHz ~ 26.5GHz | <b>Operating Channel</b> | Mid Channel |
|------------------------|----------------|--------------------------|-------------|

| SPURIOUS EMISSION LEVEL |                      |             |             |             |
|-------------------------|----------------------|-------------|-------------|-------------|
| Frequency (MHz)         | Antenna Polarization | Level (dBm) | Limit (dBm) | Margin (dB) |
| 1418.625                | Vertical             | -49.11      | -13         | -36.11      |
| 1418.625                | Horizontal           | -49.05      | -13         | -36.05      |
| 2128.375                | Vertical             | -49.47      | -13         | -36.47      |
| 2128.375                | Horizontal           | -48.34      | -13         | -35.34      |

**LTE NB-IOT Band 17 Bandwidth 5 MHz**

|                        |                |                          |              |
|------------------------|----------------|--------------------------|--------------|
| <b>Frequency Range</b> | 1GHz ~ 26.5GHz | <b>Operating Channel</b> | High Channel |
|------------------------|----------------|--------------------------|--------------|

| SPURIOUS EMISSION LEVEL |                      |             |             |             |
|-------------------------|----------------------|-------------|-------------|-------------|
| Frequency (MHz)         | Antenna Polarization | Level (dBm) | Limit (dBm) | Margin (dB) |
| 1430.625                | Vertical             | -49.13      | -13         | -36.13      |
| 1430.625                | Horizontal           | -49.16      | -13         | -36.16      |
| 2146.375                | Vertical             | -49.63      | -13         | -36.63      |
| 2146.375                | Horizontal           | -48.4       | -13         | -35.4       |

**LTE NB-IOT Band 25 Bandwidth 5 MHz**

|                        |                |                          |             |
|------------------------|----------------|--------------------------|-------------|
| <b>Frequency Range</b> | 1GHz ~ 26.5GHz | <b>Operating Channel</b> | Low Channel |
|------------------------|----------------|--------------------------|-------------|

| <b>SPURIOUS EMISSION LEVEL</b> |                             |                    |                    |                    |
|--------------------------------|-----------------------------|--------------------|--------------------|--------------------|
| <b>Frequency (MHz)</b>         | <b>Antenna Polarization</b> | <b>Level (dBm)</b> | <b>Limit (dBm)</b> | <b>Margin (dB)</b> |
| 3699.625                       | Vertical                    | -56.93             | -13                | -43.93             |
| 3699.625                       | Horizontal                  | -54.59             | -13                | -41.59             |
| 5522.875                       | Vertical                    | -52.75             | -13                | -39.75             |
| 5522.875                       | Horizontal                  | -52.39             | -13                | -39.39             |

**LTE NB-IOT Band 25 Bandwidth 5 MHz**

|                        |                |                          |             |
|------------------------|----------------|--------------------------|-------------|
| <b>Frequency Range</b> | 1GHz ~ 26.5GHz | <b>Operating Channel</b> | Mid Channel |
|------------------------|----------------|--------------------------|-------------|

| <b>SPURIOUS EMISSION LEVEL</b> |                             |                    |                    |                    |
|--------------------------------|-----------------------------|--------------------|--------------------|--------------------|
| <b>Frequency (MHz)</b>         | <b>Antenna Polarization</b> | <b>Level (dBm)</b> | <b>Limit (dBm)</b> | <b>Margin (dB)</b> |
| 3764.625                       | Vertical                    | -56.79             | -13                | -43.79             |
| 3764.625                       | Horizontal                  | -54.45             | -13                | -41.45             |
| 5647.375                       | Vertical                    | -52.61             | -13                | -39.61             |
| 5647.375                       | Horizontal                  | -52.25             | -13                | -39.25             |

**LTE NB-IOT Band 25 Bandwidth 5 MHz**

|                        |                |                          |              |
|------------------------|----------------|--------------------------|--------------|
| <b>Frequency Range</b> | 1GHz ~ 26.5GHz | <b>Operating Channel</b> | High Channel |
|------------------------|----------------|--------------------------|--------------|

| <b>SPURIOUS EMISSION LEVEL</b> |                             |                    |                    |                    |
|--------------------------------|-----------------------------|--------------------|--------------------|--------------------|
| <b>Frequency (MHz)</b>         | <b>Antenna Polarization</b> | <b>Level (dBm)</b> | <b>Limit (dBm)</b> | <b>Margin (dB)</b> |
| 3829.625                       | Vertical                    | -56.81             | -13                | -43.81             |
| 3829.625                       | Horizontal                  | -54.56             | -13                | -41.56             |
| 5717.875                       | Vertical                    | -52.77             | -13                | -39.77             |
| 5717.875                       | Horizontal                  | -52.31             | -13                | -39.31             |

**LTE NB-IOT Band 26 Bandwidth 5 MHz**

|                        |                |                          |             |
|------------------------|----------------|--------------------------|-------------|
| <b>Frequency Range</b> | 1GHz ~ 26.5GHz | <b>Operating Channel</b> | Low Channel |
|------------------------|----------------|--------------------------|-------------|

| <b>SPURIOUS EMISSION LEVEL</b> |                             |                    |                    |                    |
|--------------------------------|-----------------------------|--------------------|--------------------|--------------------|
| <b>Frequency (MHz)</b>         | <b>Antenna Polarization</b> | <b>Level (dBm)</b> | <b>Limit (dBm)</b> | <b>Margin (dB)</b> |
| 1625.875                       | Vertical                    | -55                | -13                | -42                |
| 1625.875                       | Horizontal                  | -55.33             | -13                | -42.33             |
| 2441.375                       | Vertical                    | -55.53             | -13                | -42.53             |
| 2443.5                         | Horizontal                  | -55.36             | -13                | -42.36             |
| 3254.75                        | Vertical                    | -43.65             | -13                | -30.65             |
| 3254.75                        | Horizontal                  | -43.71             | -13                | -30.71             |

**LTE NB-IOT Band 26 Bandwidth 5 MHz**

|                        |                |                          |             |
|------------------------|----------------|--------------------------|-------------|
| <b>Frequency Range</b> | 1GHz ~ 26.5GHz | <b>Operating Channel</b> | Mid Channel |
|------------------------|----------------|--------------------------|-------------|

| <b>SPURIOUS EMISSION LEVEL</b> |                             |                    |                    |                    |
|--------------------------------|-----------------------------|--------------------|--------------------|--------------------|
| <b>Frequency (MHz)</b>         | <b>Antenna Polarization</b> | <b>Level (dBm)</b> | <b>Limit (dBm)</b> | <b>Margin (dB)</b> |
| 1660.875                       | Vertical                    | -54.86             | -13                | -41.86             |
| 1660.875                       | Horizontal                  | -55.19             | -13                | -42.19             |
| 2493.875                       | Vertical                    | -55.39             | -13                | -42.39             |
| 2496                           | Horizontal                  | -55.22             | -13                | -42.22             |
| 3324.75                        | Vertical                    | -43.51             | -13                | -30.51             |
| 3324.75                        | Horizontal                  | -43.57             | -13                | -30.57             |

**LTE NB-IOT Band 26 Bandwidth 5 MHz**

|                        |                |                          |              |
|------------------------|----------------|--------------------------|--------------|
| <b>Frequency Range</b> | 1GHz ~ 26.5GHz | <b>Operating Channel</b> | High Channel |
|------------------------|----------------|--------------------------|--------------|

| <b>SPURIOUS EMISSION LEVEL</b> |                             |                    |                    |                    |
|--------------------------------|-----------------------------|--------------------|--------------------|--------------------|
| <b>Frequency (MHz)</b>         | <b>Antenna Polarization</b> | <b>Level (dBm)</b> | <b>Limit (dBm)</b> | <b>Margin (dB)</b> |
| 1695.875                       | Vertical                    | -54.88             | -13                | -41.88             |
| 1695.875                       | Horizontal                  | -55.3              | -13                | -42.3              |
| 2546.375                       | Vertical                    | -55.55             | -13                | -42.55             |
| 2548.5                         | Horizontal                  | -55.28             | -13                | -42.28             |
| 3394.75                        | Vertical                    | -43.53             | -13                | -30.53             |
| 3394.75                        | Horizontal                  | -43.68             | -13                | -30.68             |

**LTE NB-IOT Band 66 Bandwidth 5 MHz**

|                        |                |                          |             |
|------------------------|----------------|--------------------------|-------------|
| <b>Frequency Range</b> | 1GHz ~ 26.5GHz | <b>Operating Channel</b> | Low Channel |
|------------------------|----------------|--------------------------|-------------|

| SPURIOUS EMISSION LEVEL |                      |             |             |             |
|-------------------------|----------------------|-------------|-------------|-------------|
| Frequency (MHz)         | Antenna Polarization | Level (dBm) | Limit (dBm) | Margin (dB) |
| 3418.375                | Vertical             | -56.7       | -13         | -43.7       |
| 3420.5                  | Horizontal           | -56.95      | -13         | -43.95      |
| 5042.25                 | Vertical             | -56.73      | -13         | -43.73      |
| 5042.25                 | Horizontal           | -55         | -13         | -42         |

**LTE NB-IOT Band 66 Bandwidth 5 MHz**

|                        |                |                          |             |
|------------------------|----------------|--------------------------|-------------|
| <b>Frequency Range</b> | 1GHz ~ 26.5GHz | <b>Operating Channel</b> | Mid Channel |
|------------------------|----------------|--------------------------|-------------|

| SPURIOUS EMISSION LEVEL |                      |             |             |             |
|-------------------------|----------------------|-------------|-------------|-------------|
| Frequency (MHz)         | Antenna Polarization | Level (dBm) | Limit (dBm) | Margin (dB) |
| 3488.375                | Vertical             | -56.56      | -13         | -43.56      |
| 3490.5                  | Horizontal           | -56.81      | -13         | -43.81      |
| 5237.25                 | Vertical             | -56.59      | -13         | -43.59      |
| 5237.25                 | Horizontal           | -54.86      | -13         | -41.86      |

**LTE NB-IOT Band 66 Bandwidth 5 MHz**

|                        |                |                          |              |
|------------------------|----------------|--------------------------|--------------|
| <b>Frequency Range</b> | 1GHz ~ 26.5GHz | <b>Operating Channel</b> | High Channel |
|------------------------|----------------|--------------------------|--------------|

| SPURIOUS EMISSION LEVEL |                      |             |             |             |
|-------------------------|----------------------|-------------|-------------|-------------|
| Frequency (MHz)         | Antenna Polarization | Level (dBm) | Limit (dBm) | Margin (dB) |
| 3558.375                | Vertical             | -56.58      | -13         | -43.58      |
| 3560.5                  | Horizontal           | -56.92      | -13         | -43.92      |
| 5252.25                 | Vertical             | -56.75      | -13         | -43.75      |
| 5252.25                 | Horizontal           | -54.92      | -13         | -41.92      |

**Test Setup Photo**

(Please refer to the attached file (Test Setup Photo))

#### IV. Test Equipment List

Calibrated test equipment utilized during testing was maintained in a current state of calibration per the requirements of ISO/IEC 17025:2017.

| Asset #   | Equipment                    | Manufacturer      | Model                | Last Cal Date   | Cal Due Date    |
|---|------------------------------|-------------------|----------------------|-----------------|-----------------|
| 1S2003  | EMI Test Receiver            | Keysight          | N9030B               | 11/01/2022      | 11/01/2023      |
| 1S2399  | Turntable Controller         | SUNOL SCIENCE     | SC99V                | Not Required    | Not Required    |
| 1S2486  | 5 Meter Chamber Control Room | Panashield        | 5 Meter Control Room | Not Required    | Not Required    |
| 1S2435  | Horn Antenna                 | ETS-LINDGREN      | 3117                 | 04/06/2023      | 04/06/2025      |
| 1S3826  | Horn Antenna                 | ETS-LINDGREN      | 3117                 | 04/06/2023      | 04/06/2025      |
| 1S4802  | Preamplifier                 | EMC Instrument    | EMC118A45SE          | Note 1          | Note 1          |
| 1S2668  | Preamplifier                 | Sonoma Instrument | 310N                 | Note 1          | Note 1          |
| 1S2756  | EXG Vector Signal Generator  | Keysight          | N5172B               | August 27, 2022 | August 27, 2024 |
| 1S2600  | Antenna                      | TESEQ GmbH        | D-12623              | April 19, 2023  | April 19, 2025  |
| Note 1: Verified by calibrated instrumentation at the time of testing |                              |                   |                      |                 |                 |

Table 1. Radiated Emission and Bandage Measurement, Test Equipment List

**END OF REPORT**