

#### **Annex C. LTE Transmitter Spurious Emissions**



#### 1. LTE\_Band7

# 1.1. LTE Transmitter Spurious Emissions(NTNV)(Subtest:1, Channel:20775, Bandwidth:5, Modulation:QPSK, RB Number: 1, RB Position:LOW)

| Start<br>Frequency<br>(MHz)                              | Stop<br>Frequency<br>(MHz) | RBW<br>(MHz) | Detecto<br>r | Frequency<br>(MHz) | Power<br>(dBm) | Limit<br>(dBm) | Verdic<br>t | Sweep<br>Point |
|----------------------------------------------------------|----------------------------|--------------|--------------|--------------------|----------------|----------------|-------------|----------------|
| 0.009                                                    | 0.15                       | 0.001        | RMS          | 0.009              | -53.02         | -25            | Pass        | 601            |
| 0.15                                                     | 30                         | 0.01         | RMS          | 0.15               | -51.68         | -25            | Pass        | 2985           |
| 30                                                       | 1000                       | 0.1          | RMS          | 894.489            | -55.91         | -25            | Pass        | 9700           |
| 1000                                                     | 2490                       | 1            | RMS          | 2436.964           | -40.51         | -25            | Pass        | 1490           |
| 2490                                                     | 2580                       | 1            | RMS          | 2500.35            | 22.56          | 60             | Pass        | 601            |
| 2580                                                     | 3000                       | 1            | RMS          | 2658.4             | -40.86         | -25            | Pass        | 601            |
| 3000                                                     | 12000                      | 1            | RMS          | 11923.992          | -48.86         | -25            | Pass        | 9000           |
| 12000                                                    | 26000                      | 1            | RMS          | 25973.998          | -30.65         | -25            | Pass        | 14000          |
| 20- 15- 10- 5- 051015- 2020354045505560657075800099 2000 | 4000 6000                  | 8000         | 10000 1200   | 0 14000 160        | 00 18000       |                | 22000 240   | 00 26000       |



## 1.2. LTE Transmitter Spurious Emissions(NTNV)(Subtest:2, Channel:20775, Bandwidth:5, Modulation:QPSK, RB Number: 1, RB Position:HIGH)

| Start<br>Frequency<br>(MHz) | Stop<br>Frequency<br>(MHz) | RBW<br>(MHz) | Detector | Frequency<br>(MHz) | Power<br>(dBm) | Limit<br>(dBm) | Verdict | Sweep<br>Point |
|-----------------------------|----------------------------|--------------|----------|--------------------|----------------|----------------|---------|----------------|
| 0.009                       | 0.15                       | 0.001        | RMS      | 0.009              | -53.56         | -25            | Pass    | 601            |
| 0.15                        | 30                         | 0.01         | RMS      | 0.15               | -52.01         | -25            | Pass    | 2985           |
| 30                          | 1000                       | 0.1          | RMS      | 886.388            | -55.58         | -25            | Pass    | 9700           |
| 1000                        | 2490                       | 1            | RMS      | 2435.964           | -40.7          | -25            | Pass    | 1490           |
| 2490                        | 2580                       | 1            | RMS      | 2504.7             | 22.57          | 60             | Pass    | 601            |
| 2580                        | 3000                       | 1            | RMS      | 2658.4             | -40.5          | -25            | Pass    | 601            |
| 3000                        | 12000                      | 1            | RMS      | 11911.99           | -48.81         | -25            | Pass    | 9000           |
| 12000                       | 26000                      | 1            | RMS      | 25952.997          | -30.58         | -25            | Pass    | 14000          |
| 30-<br>25-<br>20-           |                            |              |          |                    |                |                |         |                |





## 1.3. LTE Transmitter Spurious Emissions(NTNV)(Subtest:3, Channel:20775, Bandwidth:5, Modulation:Q16, RB Number: 1, RB Position:LOW)

| Start<br>Frequency<br>(MHz) | Stop<br>Frequency<br>(MHz) | RBW<br>(MHz) | Detector | Frequency<br>(MHz) | Power<br>(dBm) | Limit<br>(dBm) | Verdict | Sweep<br>Point |
|-----------------------------|----------------------------|--------------|----------|--------------------|----------------|----------------|---------|----------------|
| 0.009                       | 0.15                       | 0.001        | RMS      | 0.01               | -53.56         | -25            | Pass    | 601            |
| 0.15                        | 30                         | 0.01         | RMS      | 0.17               | -52.95         | -25            | Pass    | 2985           |
| 30                          | 1000                       | 0.1          | RMS      | 899.09             | -55.96         | -25            | Pass    | 9700           |
| 1000                        | 2490                       | 1            | RMS      | 2434.963           | -40.66         | -25            | Pass    | 1490           |
| 2490                        | 2580                       | 1            | RMS      | 2500.35            | 21.64          | 60             | Pass    | 601            |
| 2580                        | 3000                       | 1            | RMS      | 2659.1             | -40.53         | -25            | Pass    | 601            |
| 3000                        | 12000                      | 1            | RMS      | 11906.99           | -48.72         | -25            | Pass    | 9000           |
| 12000                       | 26000                      | 1            | RMS      | 25831.988          | -30.78         | -25            | Pass    | 14000          |
| 30 -<br>25 -<br>20 -        |                            |              |          |                    |                |                |         |                |





#### 1.4. LTE Transmitter Spurious Emissions(NTNV)(Subtest:4, Channel:20775, Bandwidth:5, Modulation:Q16, RB Number: 1, RB Position:HIGH)

| Start<br>Frequency<br>(MHz) | Stop<br>Frequency<br>(MHz) | RBW<br>(MHz) | Detector | Frequency<br>(MHz) | Power<br>(dBm) | Limit<br>(dBm) | Verdict | Sweep<br>Point |
|-----------------------------|----------------------------|--------------|----------|--------------------|----------------|----------------|---------|----------------|
| 0.009                       | 0.15                       | 0.001        | RMS      | 0.009              | -53.72         | -25            | Pass    | 601            |
| 0.15                        | 30                         | 0.01         | RMS      | 0.15               | -51.14         | -25            | Pass    | 2985           |
| 30                          | 1000                       | 0.1          | RMS      | 887.088            | -55.76         | -25            | Pass    | 9700           |
| 1000                        | 2490                       | 1            | RMS      | 2436.964           | -40.55         | -25            | Pass    | 1490           |
| 2490                        | 2580                       | 1            | RMS      | 2504.7             | 21.61          | 60             | Pass    | 601            |
| 2580                        | 3000                       | 1            | RMS      | 2661.9             | -40.55         | -25            | Pass    | 601            |
| 3000                        | 12000                      | 1            | RMS      | 11908.99           | -48.81         | -25            | Pass    | 9000           |
| 12000                       | 26000                      | 1            | RMS      | 25975.998          | -30.64         | -25            | Pass    | 14000          |
| 30-                         |                            |              |          |                    |                |                |         |                |





END