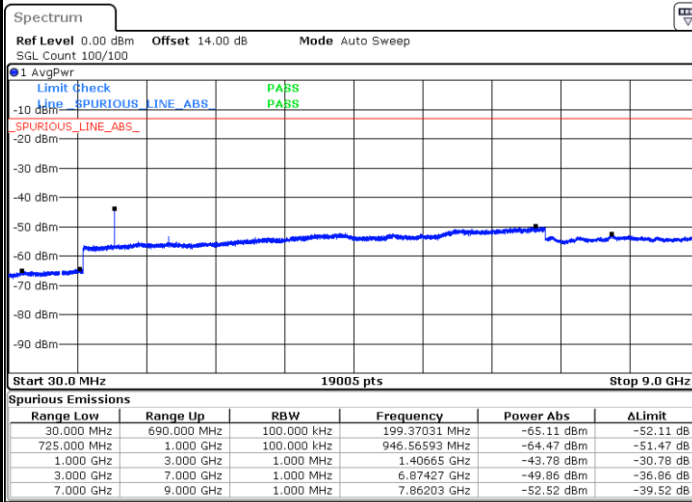




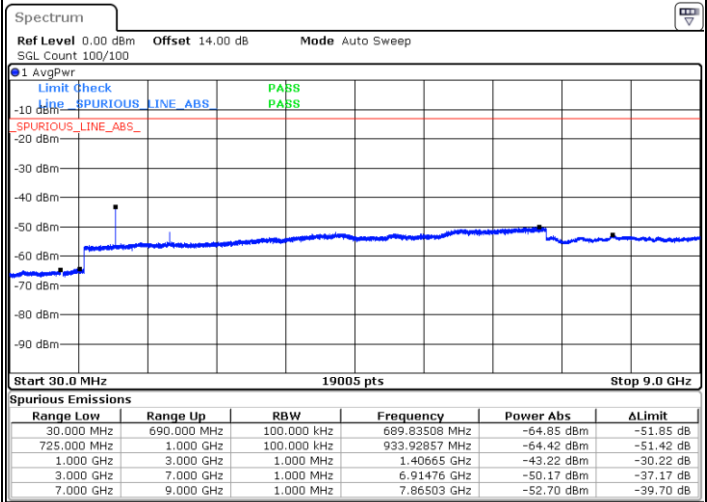
## LTE Band 12 / 10MHz

## Middle Channel / QPSK



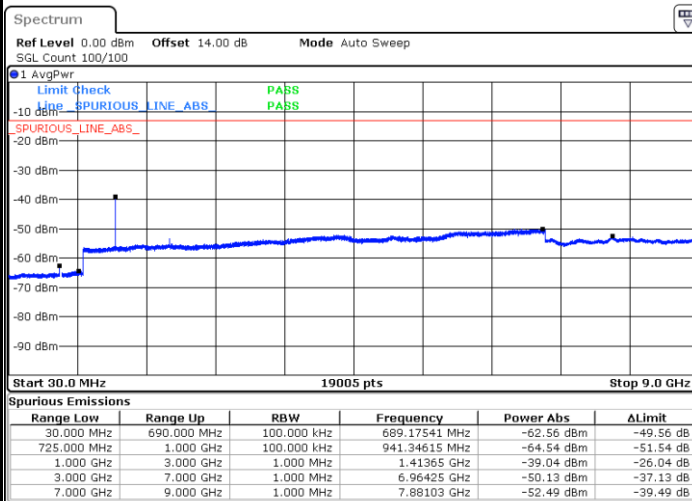
Date: 11.OCT.2018 17:02:11

## Middle Channel / 16QAM



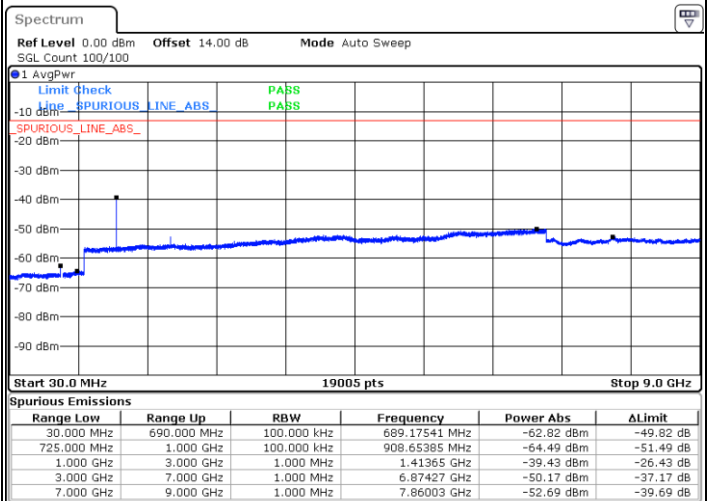
Date: 11.OCT.2018 17:03:04

## Highest Channel / QPSK



Date: 11.OCT.2018 17:09:08

## Highest Channel / 16QAM

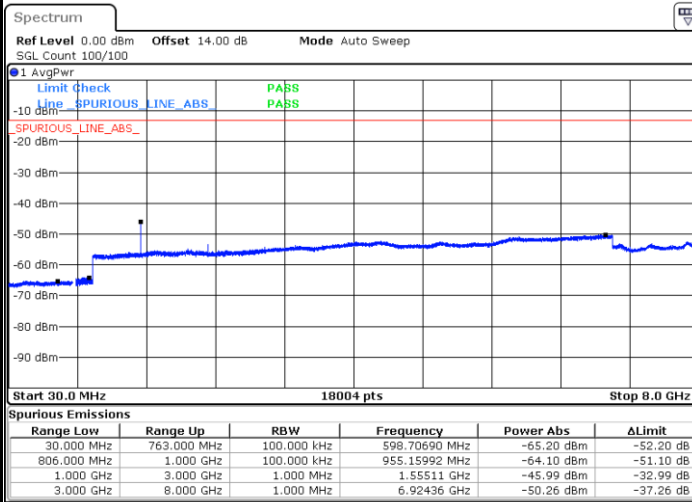


Date: 11.OCT.2018 17:10:02



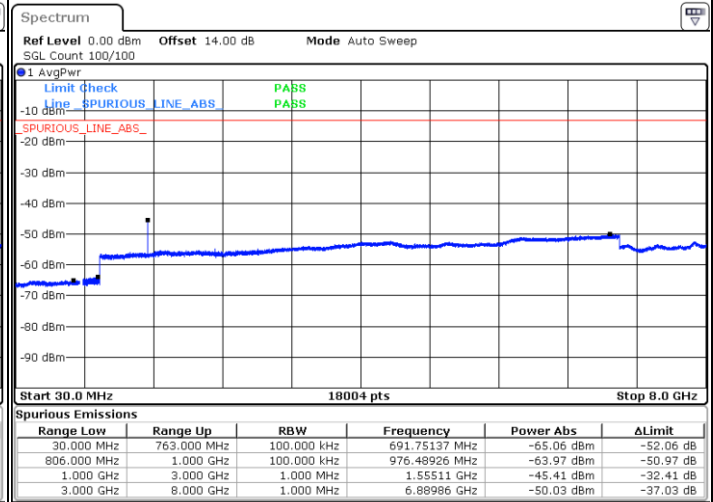
## LTE Band 13 / 5MHz

## Lowest Channel / QPSK



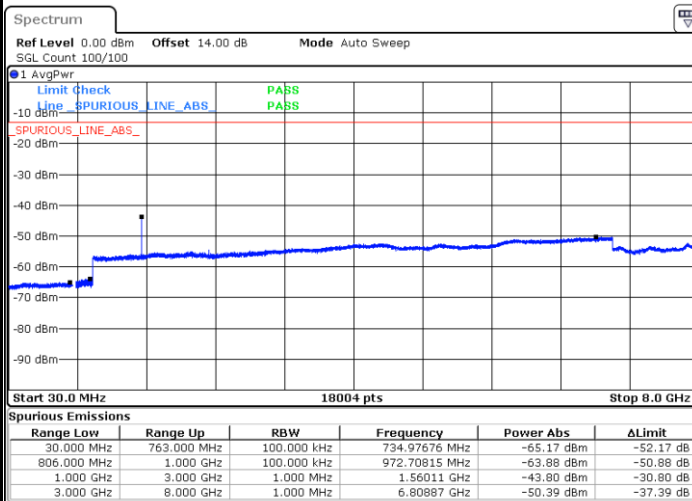
Date: 11.OCT.2018 17:31:38

## Lowest Channel / 16QAM



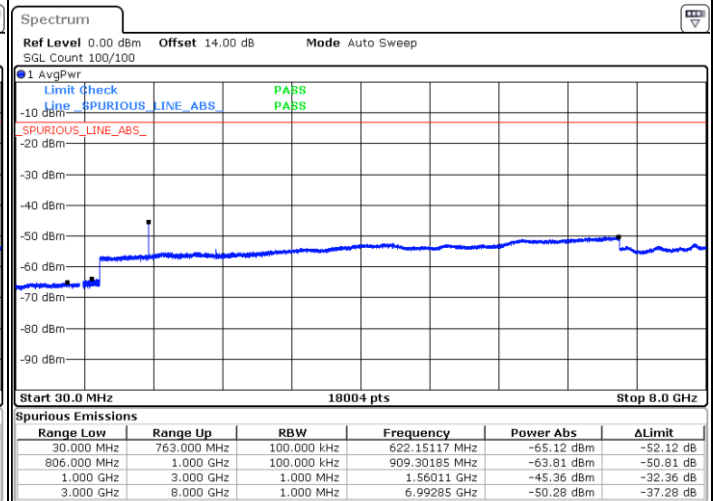
Date: 11.OCT.2018 17:32:31

## Middle Channel / QPSK



Date: 11.OCT.2018 17:34:03

## Middle Channel / 16QAM

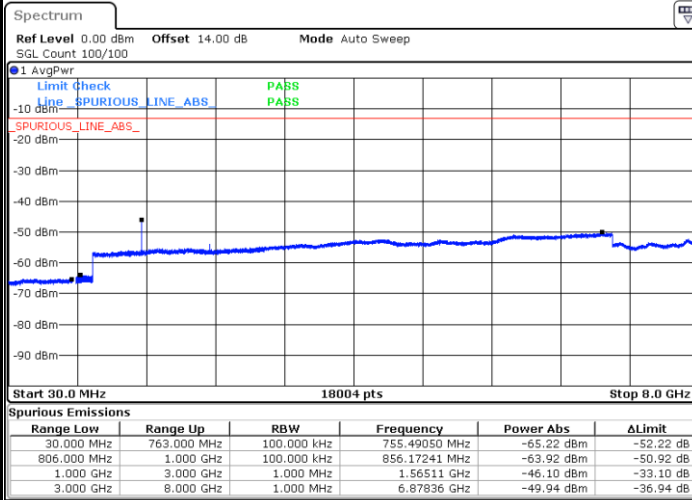


Date: 11.OCT.2018 17:34:56



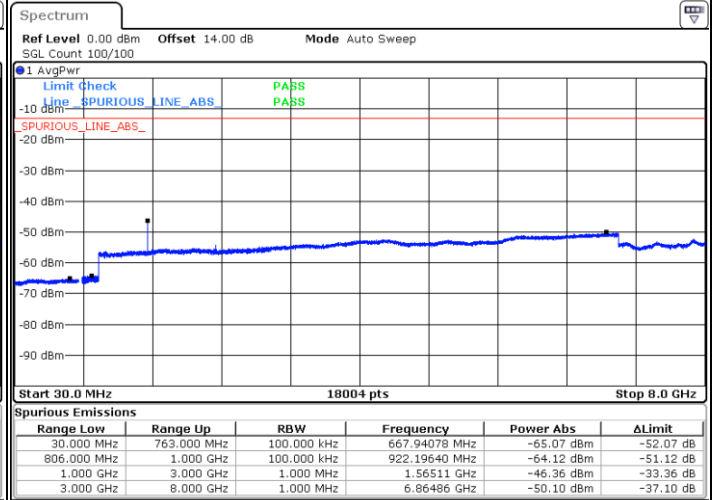
## LTE Band 13 / 5MHz

## Highest Channel / QPSK



Date: 11.OCT.2018 17:43:01

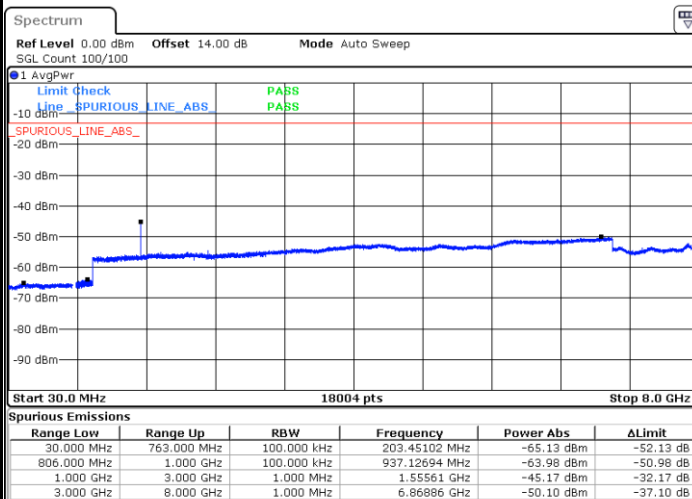
## Highest Channel / 16QAM



Date: 11.OCT.2018 17:43:53

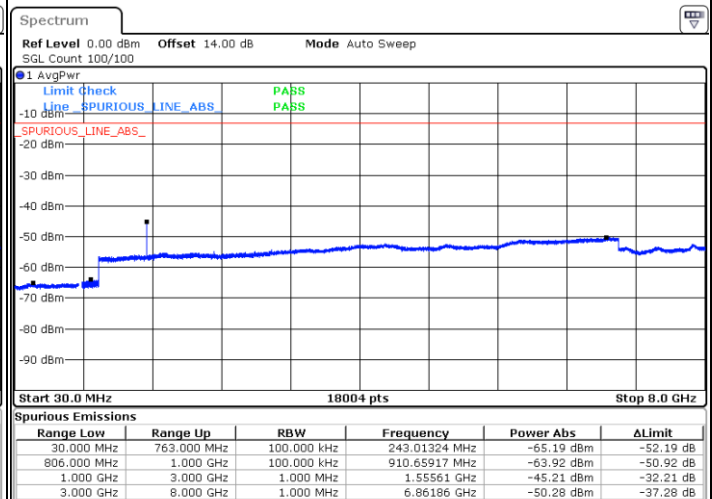
## LTE Band 13 / 10MHz

## Middle Channel / QPSK



Date: 11.OCT.2018 17:55:14

## Middle Channel / 16QAM



Date: 11.OCT.2018 17:56:07

## Frequency Stability

| Test Conditions  |                   | LTE Band 2 (QPSK) / Middle Channel | Limit   |
|------------------|-------------------|------------------------------------|---------|
| Temperature (°C) | Voltage (Volt)    | BW 10MHz                           | Note 2. |
|                  |                   | Deviation (ppm)                    | Result  |
| 50               | Normal Voltage    | 0.0099                             | PASS    |
| 40               | Normal Voltage    | 0.0007                             |         |
| 30               | Normal Voltage    | 0.0011                             |         |
| 20(Ref.)         | Normal Voltage    | 0.0000                             |         |
| 10               | Normal Voltage    | 0.0009                             |         |
| 0                | Normal Voltage    | 0.0003                             |         |
| -10              | Normal Voltage    | 0.0115                             |         |
| -20              | Normal Voltage    | 0.0085                             |         |
| -30              | Normal Voltage    | 0.0091                             |         |
| 20               | Maximum Voltage   | 0.0087                             |         |
| 20               | Normal Voltage    | 0.0000                             |         |
| 20               | Battery End Point | 0.0020                             |         |

**Note:**

1. Normal Voltage =12 V. ; Battery End Point (BEP) =8 V. ; Maximum Voltage =18 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



| Test Conditions     |                   | LTE Band 4 (QPSK) / Middle Channel | Limit   |
|---------------------|-------------------|------------------------------------|---------|
| Temperature<br>(°C) | Voltage<br>(Volt) | BW 10MHz                           | Note 2. |
|                     |                   | Deviation<br>(ppm)                 | Result  |
| 50                  | Normal Voltage    | 0.0015                             | PASS    |
| 40                  | Normal Voltage    | 0.0102                             |         |
| 30                  | Normal Voltage    | 0.0014                             |         |
| 20(Ref.)            | Normal Voltage    | 0.0000                             |         |
| 10                  | Normal Voltage    | 0.0009                             |         |
| 0                   | Normal Voltage    | 0.0005                             |         |
| -10                 | Normal Voltage    | 0.0029                             |         |
| -20                 | Normal Voltage    | 0.0008                             |         |
| -30                 | Normal Voltage    | 0.0024                             |         |
| 20                  | Maximum Voltage   | 0.0089                             |         |
| 20                  | Normal Voltage    | 0.0000                             |         |
| 20                  | Battery End Point | 0.0013                             |         |

**Note:**

1. Normal Voltage =12V. ; Battery End Point (BEP) =8 V. ; Maximum Voltage =18 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



| Test Conditions     |                   | LTE Band 5 (QPSK) / Middle Channel | Limit  |
|---------------------|-------------------|------------------------------------|--------|
| Temperature<br>(°C) | Voltage<br>(Volt) | BW 10MHz                           | 2.5ppm |
|                     |                   | Deviation<br>(ppm)                 | Result |
| 50                  | Normal Voltage    | 0.0025                             | PASS   |
| 40                  | Normal Voltage    | 0.0031                             |        |
| 30                  | Normal Voltage    | 0.0011                             |        |
| 20(Ref.)            | Normal Voltage    | 0.0000                             |        |
| 10                  | Normal Voltage    | 0.0007                             |        |
| 0                   | Normal Voltage    | 0.0022                             |        |
| -10                 | Normal Voltage    | 0.0017                             |        |
| -20                 | Normal Voltage    | 0.0023                             |        |
| -30                 | Normal Voltage    | 0.0018                             |        |
| 20                  | Maximum Voltage   | 0.0011                             |        |
| 20                  | Normal Voltage    | 0.0000                             |        |
| 20                  | Battery End Point | 0.0029                             |        |

**Note:** Normal Voltage =12 V. ; Battery End Point (BEP) =8 V. ; Maximum Voltage =18 V.



| Test Conditions  |                   | LTE Band 12 (QPSK) / Middle Channel | Limit   |
|------------------|-------------------|-------------------------------------|---------|
| Temperature (°C) | Voltage (Volt)    | BW 10MHz                            | Note 2. |
|                  |                   | Deviation (ppm)                     | Result  |
| 50               | Normal Voltage    | 0.0003                              | PASS    |
| 40               | Normal Voltage    | 0.0038                              |         |
| 30               | Normal Voltage    | 0.0020                              |         |
| 20(Ref.)         | Normal Voltage    | 0.0000                              |         |
| 10               | Normal Voltage    | 0.0021                              |         |
| 0                | Normal Voltage    | 0.0006                              |         |
| -10              | Normal Voltage    | 0.0018                              |         |
| -20              | Normal Voltage    | 0.0133                              |         |
| -30              | Normal Voltage    | 0.0013                              |         |
| 20               | Maximum Voltage   | 0.0014                              |         |
| 20               | Normal Voltage    | 0.0000                              |         |
| 20               | Battery End Point | 0.0059                              |         |

**Note:**

1. Normal Voltage =12 V. ; Battery End Point (BEP) =8 V. ; Maximum Voltage =18 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



| Test Conditions  |                   | LTE Band 13 (QPSK) / Middle Channel | Limit   |
|------------------|-------------------|-------------------------------------|---------|
| Temperature (°C) | Voltage (Volt)    | BW 10MHz                            | Note 2. |
|                  |                   | Deviation (ppm)                     | Result  |
| 50               | Normal Voltage    | 0.0060                              | PASS    |
| 40               | Normal Voltage    | 0.0056                              |         |
| 30               | Normal Voltage    | 0.0008                              |         |
| 20(Ref.)         | Normal Voltage    | 0.0000                              |         |
| 10               | Normal Voltage    | 0.0047                              |         |
| 0                | Normal Voltage    | 0.0072                              |         |
| -10              | Normal Voltage    | 0.0070                              |         |
| -20              | Normal Voltage    | 0.0029                              |         |
| -30              | Normal Voltage    | 0.0019                              |         |
| 20               | Maximum Voltage   | 0.0189                              |         |
| 20               | Normal Voltage    | 0.0000                              |         |
| 20               | Battery End Point | 0.0184                              |         |

**Note:**

1. Normal Voltage =12 V. ; Battery End Point (BEP) =8 V. ; Maximum Voltage =18 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.





## Appendix B. Test Results of Radiated Test

### Radiated Spurious Emission

| LTE Band 2 / 1.4MHz / QPSK |                      |                 |                  |                         |                         |                          |                            |                             |                       |
|----------------------------|----------------------|-----------------|------------------|-------------------------|-------------------------|--------------------------|----------------------------|-----------------------------|-----------------------|
| Channel                    | Frequency<br>( MHz ) | EIRP<br>( dBm ) | Limit<br>( dBm ) | Over<br>Limit<br>( dB ) | SPA<br>Reading<br>(dBm) | S.G.<br>Power<br>( dBm ) | TX Cable<br>loss<br>( dB ) | TX Antenna<br>Gain<br>(dBi) | Polarization<br>(H/V) |
| Middle                     | 3758.92              | -51.35          | -13              | -38.35                  | -69.85                  | -58.10                   | 5.85                       | 12.60                       | H                     |
|                            | 5638.38              | -54.26          | -13              | -41.26                  | -76.43                  | -60.06                   | 7.30                       | 13.10                       | H                     |
|                            | 7517.84              | -49.98          | -13              | -36.98                  | -77.82                  | -53.13                   | 8.35                       | 11.50                       | H                     |
|                            | 3758.92              | -50.17          | -13              | -37.17                  | -68.71                  | -56.92                   | 5.85                       | 12.60                       | V                     |
|                            | 5638.38              | -54.21          | -13              | -41.21                  | -76.78                  | -60.01                   | 7.30                       | 13.10                       | V                     |
|                            | 7517.84              | -50.59          | -13              | -37.59                  | -78.21                  | -53.74                   | 8.35                       | 11.50                       | V                     |

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

| LTE Band 2 / 3MHz / QPSK |                      |                 |                  |                         |                         |                          |                            |                             |                       |
|--------------------------|----------------------|-----------------|------------------|-------------------------|-------------------------|--------------------------|----------------------------|-----------------------------|-----------------------|
| Channel                  | Frequency<br>( MHz ) | EIRP<br>( dBm ) | Limit<br>( dBm ) | Over<br>Limit<br>( dB ) | SPA<br>Reading<br>(dBm) | S.G.<br>Power<br>( dBm ) | TX Cable<br>loss<br>( dB ) | TX Antenna<br>Gain<br>(dBi) | Polarization<br>(H/V) |
| Middle                   | 3757.48              | -51.24          | -13              | -38.24                  | -69.74                  | -57.99                   | 5.85                       | 12.60                       | H                     |
|                          | 5636.22              | -55.07          | -13              | -42.07                  | -77.24                  | -60.87                   | 7.30                       | 13.10                       | H                     |
|                          | 7514.96              | -50.82          | -13              | -37.82                  | -78.66                  | -53.97                   | 8.35                       | 11.50                       | H                     |
|                          | 3757.48              | -51.23          | -13              | -38.23                  | -69.77                  | -57.98                   | 5.85                       | 12.60                       | V                     |
|                          | 5636.22              | -54.54          | -13              | -41.54                  | -77.11                  | -60.34                   | 7.30                       | 13.10                       | V                     |
|                          | 7514.96              | -50.54          | -13              | -37.54                  | -78.16                  | -53.69                   | 8.35                       | 11.50                       | V                     |

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



| LTE Band 2 / 5MHz / QPSK |                   |              |               |                   |                   |                    |                      |                       |                    |
|--------------------------|-------------------|--------------|---------------|-------------------|-------------------|--------------------|----------------------|-----------------------|--------------------|
| Channel                  | Frequency ( MHz ) | EIRP ( dBm ) | Limit ( dBm ) | Over Limit ( dB ) | SPA Reading (dBm) | S.G. Power ( dBm ) | TX Cable loss ( dB ) | TX Antenna Gain (dBi) | Polarization (H/V) |
| Middle                   | 3755.68           | -52.41       | -13           | -39.41            | -70.91            | -59.16             | 5.85                 | 12.60                 | H                  |
|                          | 5633.52           | -55.61       | -13           | -42.61            | -77.78            | -61.41             | 7.30                 | 13.10                 | H                  |
|                          | 7511.36           | -49.61       | -13           | -36.61            | -77.45            | -52.76             | 8.35                 | 11.50                 | H                  |
|                          | 3755.68           | -51.68       | -13           | -38.68            | -70.22            | -58.43             | 5.85                 | 12.60                 | V                  |
|                          | 5633.52           | -54.47       | -13           | -41.47            | -77.04            | -60.27             | 7.30                 | 13.10                 | V                  |
|                          | 7511.36           | -50.64       | -13           | -37.64            | -78.26            | -53.79             | 8.35                 | 11.50                 | V                  |

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

| LTE Band 2 / 10MHz / QPSK |                   |              |               |                   |                   |                    |                      |                       |                    |
|---------------------------|-------------------|--------------|---------------|-------------------|-------------------|--------------------|----------------------|-----------------------|--------------------|
| Channel                   | Frequency ( MHz ) | EIRP ( dBm ) | Limit ( dBm ) | Over Limit ( dB ) | SPA Reading (dBm) | S.G. Power ( dBm ) | TX Cable loss ( dB ) | TX Antenna Gain (dBi) | Polarization (H/V) |
| Middle                    | 3751.18           | -47.62       | -13           | -34.62            | -66.12            | -54.37             | 5.85                 | 12.60                 | H                  |
|                           | 5626.77           | -54.60       | -13           | -41.60            | -76.95            | -60.40             | 7.30                 | 13.10                 | H                  |
|                           | 7502              | -49.38       | -13           | -36.38            | -77.30            | -52.53             | 8.35                 | 11.50                 | H                  |
|                           | 3751.18           | -46.66       | -13           | -33.66            | -65.2             | -53.41             | 5.85                 | 12.60                 | V                  |
|                           | 5626.77           | -54.83       | -13           | -41.83            | -77.45            | -60.63             | 7.30                 | 13.10                 | V                  |
|                           | 7502              | -49.82       | -13           | -36.82            | -77.5             | -52.97             | 8.35                 | 11.50                 | V                  |

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



| LTE Band 2 / 15MHz / QPSK |                      |                 |                  |                         |                         |                          |                            |                             |                       |
|---------------------------|----------------------|-----------------|------------------|-------------------------|-------------------------|--------------------------|----------------------------|-----------------------------|-----------------------|
| Channel                   | Frequency<br>( MHz ) | EIRP<br>( dBm ) | Limit<br>( dBm ) | Over<br>Limit<br>( dB ) | SPA<br>Reading<br>(dBm) | S.G.<br>Power<br>( dBm ) | TX Cable<br>loss<br>( dB ) | TX Antenna<br>Gain<br>(dBi) | Polarization<br>(H/V) |
| Middle                    | 3746.68              | -45.72          | -13              | -32.72                  | -64.22                  | -52.47                   | 5.85                       | 12.60                       | H                     |
|                           | 5620.02              | -55.35          | -13              | -42.35                  | -77.70                  | -61.15                   | 7.30                       | 13.10                       | H                     |
|                           | 7493.36              | -50.12          | -13              | -37.12                  | -78.04                  | -53.27                   | 8.35                       | 11.50                       | H                     |
|                           | 3746.68              | -45.44          | -13              | -32.44                  | -63.98                  | -52.19                   | 5.85                       | 12.60                       | V                     |
|                           | 5620.02              | -55.01          | -13              | -42.01                  | -77.63                  | -60.81                   | 7.30                       | 13.10                       | V                     |
|                           | 7493.36              | -50.39          | -13              | -37.39                  | -78.07                  | -53.54                   | 8.35                       | 11.50                       | V                     |

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

| LTE Band 2 / 20MHz / QPSK |                      |                 |                  |                         |                         |                          |                            |                             |                       |
|---------------------------|----------------------|-----------------|------------------|-------------------------|-------------------------|--------------------------|----------------------------|-----------------------------|-----------------------|
| Channel                   | Frequency<br>( MHz ) | EIRP<br>( dBm ) | Limit<br>( dBm ) | Over<br>Limit<br>( dB ) | SPA<br>Reading<br>(dBm) | S.G.<br>Power<br>( dBm ) | TX Cable<br>loss<br>( dB ) | TX Antenna<br>Gain<br>(dBi) | Polarization<br>(H/V) |
| Middle                    | 3742.18              | -46.70          | -13              | -33.70                  | -65.16                  | -53.45                   | 5.85                       | 12.60                       | H                     |
|                           | 5613.27              | -55.32          | -13              | -42.32                  | -77.85                  | -61.12                   | 7.30                       | 13.10                       | H                     |
|                           | 7484.36              | -49.57          | -13              | -36.57                  | -77.55                  | -52.72                   | 8.35                       | 11.50                       | H                     |
|                           | 3742.18              | -45.77          | -13              | -32.77                  | -64.27                  | -52.52                   | 5.85                       | 12.60                       | V                     |
|                           | 5613.27              | -55.23          | -13              | -42.23                  | -77.91                  | -61.03                   | 7.30                       | 13.10                       | V                     |
|                           | 7484.36              | -50.11          | -13              | -37.11                  | -77.84                  | -53.26                   | 8.35                       | 11.50                       | V                     |

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



| LTE Band 4 / 1.4MHz / QPSK |                   |              |               |                   |                   |                    |                      |                       |                    |
|----------------------------|-------------------|--------------|---------------|-------------------|-------------------|--------------------|----------------------|-----------------------|--------------------|
| Channel                    | Frequency ( MHz ) | EIRP ( dBm ) | Limit ( dBm ) | Over Limit ( dB ) | SPA Reading (dBm) | S.G. Power ( dBm ) | TX Cable loss ( dB ) | TX Antenna Gain (dBi) | Polarization (H/V) |
| Middle                     | 3463.74           | -44.08       | -13           | -31.08            | -61.20            | -50.93             | 5.65                 | 12.50                 | H                  |
|                            | 5195.61           | -57.47       | -13           | -44.47            | -79.14            | -63.14             | 7.13                 | 12.80                 | H                  |
|                            | 6927.48           | -47.26       | -13           | -34.26            | -74.06            | -50.66             | 8.40                 | 11.80                 | H                  |
|                            | 3463.74           | -44.18       | -13           | -31.18            | -61.33            | -51.03             | 5.65                 | 12.50                 | V                  |
|                            | 5195.61           | -57.33       | -13           | -44.33            | -79.45            | -63.00             | 7.13                 | 12.80                 | V                  |
|                            | 6927.48           | -47.12       | -13           | -34.12            | -74.03            | -50.52             | 8.40                 | 11.80                 | V                  |

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

| LTE Band 4 / 3MHz / QPSK |                   |              |               |                   |                   |                    |                      |                       |                    |
|--------------------------|-------------------|--------------|---------------|-------------------|-------------------|--------------------|----------------------|-----------------------|--------------------|
| Channel                  | Frequency ( MHz ) | EIRP ( dBm ) | Limit ( dBm ) | Over Limit ( dB ) | SPA Reading (dBm) | S.G. Power ( dBm ) | TX Cable loss ( dB ) | TX Antenna Gain (dBi) | Polarization (H/V) |
| Middle                   | 3462.48           | -45.16       | -13           | -32.16            | -62.28            | -52.01             | 5.65                 | 12.50                 | H                  |
|                          | 5193.72           | -57.91       | -13           | -44.91            | -79.58            | -63.58             | 7.13                 | 12.80                 | H                  |
|                          | 6924.96           | -45.77       | -13           | -32.77            | -72.57            | -49.17             | 8.40                 | 11.80                 | H                  |
|                          | 3462.48           | -43.15       | -13           | -30.15            | -60.3             | -50.00             | 5.65                 | 12.50                 | V                  |
|                          | 5193.72           | -57.10       | -13           | -44.10            | -79.22            | -62.77             | 7.13                 | 12.80                 | V                  |
|                          | 6924.96           | -47.11       | -13           | -34.11            | -74.02            | -50.51             | 8.40                 | 11.80                 | V                  |

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



| LTE Band 4 / 5MHz / QPSK |                      |                 |                  |                         |                         |                          |                            |                             |                       |
|--------------------------|----------------------|-----------------|------------------|-------------------------|-------------------------|--------------------------|----------------------------|-----------------------------|-----------------------|
| Channel                  | Frequency<br>( MHz ) | EIRP<br>( dBm ) | Limit<br>( dBm ) | Over<br>Limit<br>( dB ) | SPA<br>Reading<br>(dBm) | S.G.<br>Power<br>( dBm ) | TX Cable<br>loss<br>( dB ) | TX Antenna<br>Gain<br>(dBi) | Polarization<br>(H/V) |
| Middle                   | 3460.68              | -41.31          | -13              | -28.31                  | -58.43                  | -48.16                   | 5.65                       | 12.50                       | H                     |
|                          | 5191.02              | -56.44          | -13              | -43.44                  | -78.11                  | -62.11                   | 7.13                       | 12.80                       | H                     |
|                          | 6921.36              | -45.98          | -13              | -32.98                  | -72.69                  | -49.38                   | 8.40                       | 11.80                       | H                     |
|                          | 3460.68              | -42.58          | -13              | -29.58                  | -59.73                  | -49.43                   | 5.65                       | 12.50                       | V                     |
|                          | 5191.02              | -58.31          | -13              | -45.31                  | -80.43                  | -63.98                   | 7.13                       | 12.80                       | V                     |
|                          | 6921.36              | -45.84          | -13              | -32.84                  | -72.69                  | -49.24                   | 8.40                       | 11.80                       | V                     |

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

| LTE Band 4 / 10MHz / QPSK |                      |                 |                  |                         |                         |                          |                            |                             |                       |
|---------------------------|----------------------|-----------------|------------------|-------------------------|-------------------------|--------------------------|----------------------------|-----------------------------|-----------------------|
| Channel                   | Frequency<br>( MHz ) | EIRP<br>( dBm ) | Limit<br>( dBm ) | Over<br>Limit<br>( dB ) | SPA<br>Reading<br>(dBm) | S.G.<br>Power<br>( dBm ) | TX Cable<br>loss<br>( dB ) | TX Antenna<br>Gain<br>(dBi) | Polarization<br>(H/V) |
| Middle                    | 3456.18              | -41.19          | -13              | -28.19                  | -58.16                  | -48.04                   | 5.65                       | 12.50                       | H                     |
|                           | 5184.27              | -58.55          | -13              | -45.55                  | -80.20                  | -64.22                   | 7.13                       | 12.80                       | H                     |
|                           | 6912.36              | -46.66          | -13              | -33.66                  | -73.37                  | -50.06                   | 8.40                       | 11.80                       | H                     |
|                           | 3456.18              | -42.26          | -13              | -29.26                  | -59.26                  | -49.11                   | 5.65                       | 12.50                       | V                     |
|                           | 5184.27              | -57.57          | -13              | -44.57                  | -79.67                  | -63.24                   | 7.13                       | 12.80                       | V                     |
|                           | 6912.36              | -44.27          | -13              | -31.27                  | -71.12                  | -47.67                   | 8.40                       | 11.80                       | V                     |

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



| LTE Band 4 / 15MHz / QPSK |                   |              |               |                   |                   |                    |                      |                       |                    |
|---------------------------|-------------------|--------------|---------------|-------------------|-------------------|--------------------|----------------------|-----------------------|--------------------|
| Channel                   | Frequency ( MHz ) | EIRP ( dBm ) | Limit ( dBm ) | Over Limit ( dB ) | SPA Reading (dBm) | S.G. Power ( dBm ) | TX Cable loss ( dB ) | TX Antenna Gain (dBi) | Polarization (H/V) |
| Middle                    | 3451.68           | -39.84       | -13           | -26.84            | -56.81            | -46.69             | 5.65                 | 12.50                 | H                  |
|                           | 5177.52           | -58.00       | -13           | -45.00            | -79.65            | -63.67             | 7.13                 | 12.80                 | H                  |
|                           | 6903.36           | -44.76       | -13           | -31.76            | -71.39            | -48.16             | 8.40                 | 11.80                 | H                  |
|                           | 3451.68           | -41.80       | -13           | -28.80            | -58.8             | -48.65             | 5.65                 | 12.50                 | V                  |
|                           | 5177.52           | -57.73       | -13           | -44.73            | -79.83            | -63.40             | 7.13                 | 12.80                 | V                  |
|                           | 6903.36           | -43.82       | -13           | -30.82            | -70.61            | -47.22             | 8.40                 | 11.80                 | V                  |

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

| LTE Band 4 / 20MHz / QPSK |                   |              |               |                   |                   |                    |                      |                       |                    |
|---------------------------|-------------------|--------------|---------------|-------------------|-------------------|--------------------|----------------------|-----------------------|--------------------|
| Channel                   | Frequency ( MHz ) | EIRP ( dBm ) | Limit ( dBm ) | Over Limit ( dB ) | SPA Reading (dBm) | S.G. Power ( dBm ) | TX Cable loss ( dB ) | TX Antenna Gain (dBi) | Polarization (H/V) |
| Middle                    | 3447.18           | -39.98       | -13           | -26.98            | -56.95            | -46.83             | 5.65                 | 12.50                 | H                  |
|                           | 5170.77           | -57.68       | -13           | -44.68            | -79.31            | -63.35             | 7.13                 | 12.80                 | H                  |
|                           | 6894.36           | -44.76       | -13           | -31.76            | -71.39            | -48.16             | 8.40                 | 11.80                 | H                  |
|                           | 3447.18           | -41.51       | -13           | -28.51            | -58.51            | -48.36             | 5.65                 | 12.50                 | V                  |
|                           | 5170.77           | -56.84       | -13           | -43.84            | -78.92            | -62.51             | 7.13                 | 12.80                 | V                  |
|                           | 6894.36           | -45.70       | -13           | -32.70            | -72.49            | -49.10             | 8.40                 | 11.80                 | V                  |

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



| LTE Band 5 / 1.4MHz / QPSK |                   |             |               |                   |                   |                    |                      |                       |                    |
|----------------------------|-------------------|-------------|---------------|-------------------|-------------------|--------------------|----------------------|-----------------------|--------------------|
| Channel                    | Frequency ( MHz ) | ERP ( dBm ) | Limit ( dBm ) | Over Limit ( dB ) | SPA Reading (dBm) | S.G. Power ( dBm ) | TX Cable loss ( dB ) | TX Antenna Gain (dBi) | Polarization (H/V) |
| Middle                     | 1671.92           | -50.59      | -13           | -37.59            | -60.96            | -53.84             | 4.00                 | 9.40                  | H                  |
|                            | 2507.88           | -51.62      | -13           | -38.62            | -66.60            | -55.19             | 4.88                 | 10.60                 | H                  |
|                            | 3343.84           | -58.56      | -13           | -45.56            | -75.53            | -63.49             | 5.52                 | 12.60                 | H                  |
|                            | 1671.92           | -44.17      | -13           | -31.17            | -54.33            | -47.42             | 4.00                 | 9.40                  | V                  |
|                            | 2507.88           | -45.36      | -13           | -32.36            | -60.19            | -48.93             | 4.88                 | 10.60                 | V                  |
|                            | 3343.84           | -53.17      | -13           | -40.17            | -70.14            | -58.10             | 5.52                 | 12.60                 | V                  |

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

| LTE Band 5 / 3MHz / QPSK |                   |             |               |                   |                   |                    |                      |                       |                    |
|--------------------------|-------------------|-------------|---------------|-------------------|-------------------|--------------------|----------------------|-----------------------|--------------------|
| Channel                  | Frequency ( MHz ) | ERP ( dBm ) | Limit ( dBm ) | Over Limit ( dB ) | SPA Reading (dBm) | S.G. Power ( dBm ) | TX Cable loss ( dB ) | TX Antenna Gain (dBi) | Polarization (H/V) |
| Middle                   | 1670.48           | -53.04      | -13           | -40.04            | -63.53            | -56.29             | 4.00                 | 9.40                  | H                  |
|                          | 2505.72           | -52.10      | -13           | -39.10            | -67.08            | -55.67             | 4.88                 | 10.60                 | H                  |
|                          | 3340.96           | -57.57      | -13           | -44.57            | -74.54            | -62.50             | 5.52                 | 12.60                 | H                  |
|                          | 1670.48           | -44.09      | -13           | -31.09            | -54.30            | -47.34             | 4.00                 | 9.40                  | V                  |
|                          | 2505.72           | -45.09      | -13           | -32.09            | -59.92            | -48.66             | 4.88                 | 10.60                 | V                  |
|                          | 3340.96           | -52.68      | -13           | -39.68            | -69.65            | -57.61             | 5.52                 | 12.60                 | V                  |

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



| LTE Band 5 / 5MHz / QPSK |                      |                |                  |                         |                         |                          |                            |                             |                       |
|--------------------------|----------------------|----------------|------------------|-------------------------|-------------------------|--------------------------|----------------------------|-----------------------------|-----------------------|
| Channel                  | Frequency<br>( MHz ) | ERP<br>( dBm ) | Limit<br>( dBm ) | Over<br>Limit<br>( dB ) | SPA<br>Reading<br>(dBm) | S.G.<br>Power<br>( dBm ) | TX Cable<br>loss<br>( dB ) | TX Antenna<br>Gain<br>(dBi) | Polarization<br>(H/V) |
| Middle                   | 1668.68              | -45.46         | -13              | -32.46                  | -55.95                  | -48.71                   | 4.00                       | 9.40                        | H                     |
|                          | 2503.02              | -45.66         | -13              | -32.66                  | -60.66                  | -49.23                   | 4.88                       | 10.60                       | H                     |
|                          | 3337.36              | -54.23         | -13              | -41.23                  | -71.23                  | -59.16                   | 5.52                       | 12.60                       | H                     |
|                          | 1668.68              | -44.79         | -13              | -31.79                  | -55.00                  | -48.04                   | 4.00                       | 9.40                        | V                     |
|                          | 2503.02              | -45.48         | -13              | -32.48                  | -60.37                  | -49.05                   | 4.88                       | 10.60                       | V                     |
|                          | 3337.36              | -53.37         | -13              | -40.37                  | -70.40                  | -58.30                   | 5.52                       | 12.60                       | V                     |

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

| LTE Band 5 / 10MHz / QPSK |                      |                |                  |                         |                         |                          |                            |                             |                       |
|---------------------------|----------------------|----------------|------------------|-------------------------|-------------------------|--------------------------|----------------------------|-----------------------------|-----------------------|
| Channel                   | Frequency<br>( MHz ) | ERP<br>( dBm ) | Limit<br>( dBm ) | Over<br>Limit<br>( dB ) | SPA<br>Reading<br>(dBm) | S.G.<br>Power<br>( dBm ) | TX Cable<br>loss<br>( dB ) | TX Antenna<br>Gain<br>(dBi) | Polarization<br>(H/V) |
| Middle                    | 1664.18              | -45.57         | -13              | -32.57                  | -56.06                  | -48.82                   | 4.00                       | 9.40                        | H                     |
|                           | 2496.27              | -48.26         | -13              | -35.26                  | -63.26                  | -51.83                   | 4.88                       | 10.60                       | H                     |
|                           | 3328.36              | -55.02         | -13              | -42.02                  | -72.02                  | -59.95                   | 5.52                       | 12.60                       | H                     |
|                           | 1664.18              | -45.15         | -13              | -32.15                  | -55.36                  | -48.40                   | 4.00                       | 9.40                        | V                     |
|                           | 2496.27              | -47.96         | -13              | -34.96                  | -62.85                  | -51.53                   | 4.88                       | 10.60                       | V                     |
|                           | 3328.36              | -56.42         | -13              | -43.42                  | -73.45                  | -61.35                   | 5.52                       | 12.60                       | V                     |

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





| LTE Band 12 / 1.4MHz / QPSK |                      |                |                  |                         |                         |                          |                            |                             |                       |
|-----------------------------|----------------------|----------------|------------------|-------------------------|-------------------------|--------------------------|----------------------------|-----------------------------|-----------------------|
| Channel                     | Frequency<br>( MHz ) | ERP<br>( dBm ) | Limit<br>( dBm ) | Over<br>Limit<br>( dB ) | SPA<br>Reading<br>(dBm) | S.G.<br>Power<br>( dBm ) | TX Cable<br>loss<br>( dB ) | TX Antenna<br>Gain<br>(dBi) | Polarization<br>(H/V) |
| Middle                      | 1413.74              | -55.73         | -13              | -42.73                  | -66.74                  | -58.98                   | 4.00                       | 9.40                        | H                     |
|                             | 2120.61              | -53.65         | -13              | -40.65                  | -68.11                  | -57.22                   | 4.88                       | 10.60                       | H                     |
|                             | 2827.48              | -61.63         | -13              | -48.63                  | -77.05                  | -66.56                   | 5.52                       | 12.60                       | H                     |
|                             | 1413.74              | -45.00         | -13              | -32.00                  | -55.97                  | -48.25                   | 4.00                       | 9.40                        | V                     |
|                             | 2120.61              | -47.85         | -13              | -34.85                  | -62.22                  | -51.42                   | 4.88                       | 10.60                       | V                     |
|                             | 2827.48              | -53.76         | -13              | -40.76                  | -69.79                  | -58.69                   | 5.52                       | 12.60                       | V                     |

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

| LTE Band 12 / 3MHz / QPSK |                      |                |                  |                         |                         |                          |                            |                             |                       |
|---------------------------|----------------------|----------------|------------------|-------------------------|-------------------------|--------------------------|----------------------------|-----------------------------|-----------------------|
| Channel                   | Frequency<br>( MHz ) | ERP<br>( dBm ) | Limit<br>( dBm ) | Over<br>Limit<br>( dB ) | SPA<br>Reading<br>(dBm) | S.G.<br>Power<br>( dBm ) | TX Cable<br>loss<br>( dB ) | TX Antenna<br>Gain<br>(dBi) | Polarization<br>(H/V) |
| Middle                    | 1412.3               | -55.45         | -13              | -42.45                  | -66.46                  | -58.70                   | 4.00                       | 9.40                        | H                     |
|                           | 2118.45              | -53.57         | -13              | -40.57                  | -68.03                  | -57.14                   | 4.88                       | 10.60                       | H                     |
|                           | 2824.6               | -60.82         | -13              | -47.82                  | -76.23                  | -65.75                   | 5.52                       | 12.60                       | H                     |
|                           | 1412.3               | -47.78         | -13              | -34.78                  | -58.75                  | -51.03                   | 4.00                       | 9.40                        | V                     |
|                           | 2118.45              | -49.22         | -13              | -36.22                  | -63.59                  | -52.79                   | 4.88                       | 10.60                       | V                     |
|                           | 2824.6               | -54.78         | -13              | -41.78                  | -70.80                  | -59.71                   | 5.52                       | 12.60                       | V                     |

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



| LTE Band 12 / 5MHz / QPSK |                   |             |               |                   |                   |                    |                      |                       |                    |
|---------------------------|-------------------|-------------|---------------|-------------------|-------------------|--------------------|----------------------|-----------------------|--------------------|
| Channel                   | Frequency ( MHz ) | ERP ( dBm ) | Limit ( dBm ) | Over Limit ( dB ) | SPA Reading (dBm) | S.G. Power ( dBm ) | TX Cable loss ( dB ) | TX Antenna Gain (dBi) | Polarization (H/V) |
| Middle                    | 1410.5            | -47.78      | -13           | -34.78            | -58.79            | -51.03             | 4.00                 | 9.40                  | H                  |
|                           | 2115.75           | -48.67      | -13           | -35.67            | -63.13            | -52.24             | 4.88                 | 10.60                 | H                  |
|                           | 2821              | -55.04      | -13           | -42.04            | -70.45            | -59.97             | 5.52                 | 12.60                 | H                  |
|                           | 1410.5            | -45.01      | -13           | -32.01            | -55.98            | -48.26             | 4.00                 | 9.40                  | V                  |
|                           | 2115.75           | -49.70      | -13           | -36.70            | -64.07            | -53.27             | 4.88                 | 10.60                 | V                  |
|                           | 2821              | -54.38      | -13           | -41.38            | -70.40            | -59.31             | 5.52                 | 12.60                 | V                  |

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

| LTE Band 12 / 10MHz / QPSK |                   |             |               |                   |                   |                    |                      |                       |                    |
|----------------------------|-------------------|-------------|---------------|-------------------|-------------------|--------------------|----------------------|-----------------------|--------------------|
| Channel                    | Frequency ( MHz ) | ERP ( dBm ) | Limit ( dBm ) | Over Limit ( dB ) | SPA Reading (dBm) | S.G. Power ( dBm ) | TX Cable loss ( dB ) | TX Antenna Gain (dBi) | Polarization (H/V) |
| Middle                     | 1406              | -45.02      | -13           | -32.02            | -56.03            | -48.27             | 4.00                 | 9.40                  | H                  |
|                            | 2109              | -50.04      | -13           | -37.04            | -64.27            | -53.61             | 4.88                 | 10.60                 | H                  |
|                            | 2812              | -56.44      | -13           | -43.44            | -71.85            | -61.37             | 5.52                 | 12.60                 | H                  |
|                            | 1406              | -43.87      | -13           | -30.87            | -54.84            | -47.12             | 4.00                 | 9.40                  | V                  |
|                            | 2109              | -49.63      | -13           | -36.63            | -63.79            | -53.20             | 4.88                 | 10.60                 | V                  |
|                            | 2812              | -55.55      | -13           | -42.55            | -71.57            | -60.48             | 5.52                 | 12.60                 | V                  |

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



| LTE Band 13 / 5MHz / QPSK |                      |                |                  |                         |                         |                          |                            |                             |                       |
|---------------------------|----------------------|----------------|------------------|-------------------------|-------------------------|--------------------------|----------------------------|-----------------------------|-----------------------|
| Channel                   | Frequency<br>( MHz ) | ERP<br>( dBm ) | Limit<br>( dBm ) | Over<br>Limit<br>( dB ) | SPA<br>Reading<br>(dBm) | S.G.<br>Power<br>( dBm ) | TX Cable<br>loss<br>( dB ) | TX Antenna<br>Gain<br>(dBi) | Polarization<br>(H/V) |
| Middle                    | 1559.5               | -42.68         | -40              | -2.68                   | -53.65                  | -45.93                   | 4.00                       | 9.40                        | H                     |
|                           | 2339.25              | -50.10         | -13              | -37.10                  | -65.31                  | -53.67                   | 4.88                       | 10.60                       | H                     |
|                           | 3119                 | -55.86         | -13              | -42.86                  | -73.12                  | -60.79                   | 5.52                       | 12.60                       | H                     |
|                           | 1559.5               | -41.13         | -40              | -1.13                   | -51.60                  | -44.38                   | 4.00                       | 9.40                        | V                     |
|                           | 2339.25              | -50.43         | -13              | -37.43                  | -65.69                  | -54.00                   | 4.88                       | 10.60                       | V                     |
|                           | 3119                 | -55.19         | -13              | -42.19                  | -72.38                  | -60.12                   | 5.52                       | 12.60                       | V                     |

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

| LTE Band 13 / 10MHz / QPSK |                      |                |                  |                         |                         |                          |                            |                             |                       |
|----------------------------|----------------------|----------------|------------------|-------------------------|-------------------------|--------------------------|----------------------------|-----------------------------|-----------------------|
| Channel                    | Frequency<br>( MHz ) | ERP<br>( dBm ) | Limit<br>( dBm ) | Over<br>Limit<br>( dB ) | SPA<br>Reading<br>(dBm) | S.G.<br>Power<br>( dBm ) | TX Cable<br>loss<br>( dB ) | TX Antenna<br>Gain<br>(dBi) | Polarization<br>(H/V) |
| Middle                     | 1559.5               | -55.78         | -40              | -15.78                  | -66.75                  | -59.03                   | 4.00                       | 9.40                        | H                     |
|                            | 2339.25              | -59.72         | -13              | -46.72                  | -74.93                  | -63.29                   | 4.88                       | 10.60                       | H                     |
|                            | 3119                 | -62.01         | -13              | -49.01                  | -79.27                  | -66.94                   | 5.52                       | 12.60                       | H                     |
|                            | 1559.5               | -56.04         | -40              | -16.04                  | -66.51                  | -59.29                   | 4.00                       | 9.40                        | V                     |
|                            | 2339.25              | -59.50         | -13              | -46.50                  | -74.76                  | -63.07                   | 4.88                       | 10.60                       | V                     |
|                            | 3119                 | -61.52         | -13              | -48.52                  | -78.71                  | -66.45                   | 5.52                       | 12.60                       | V                     |

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