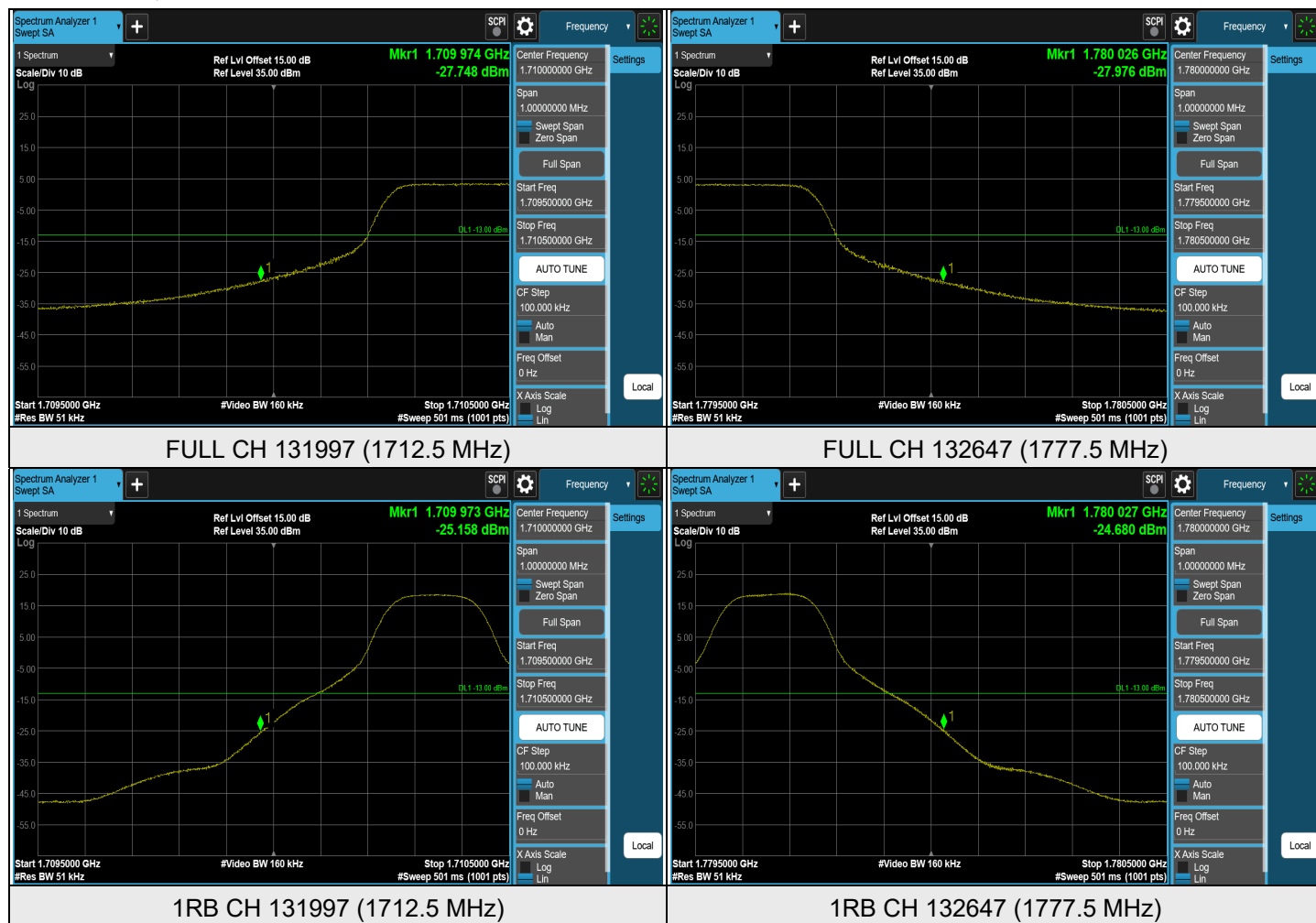
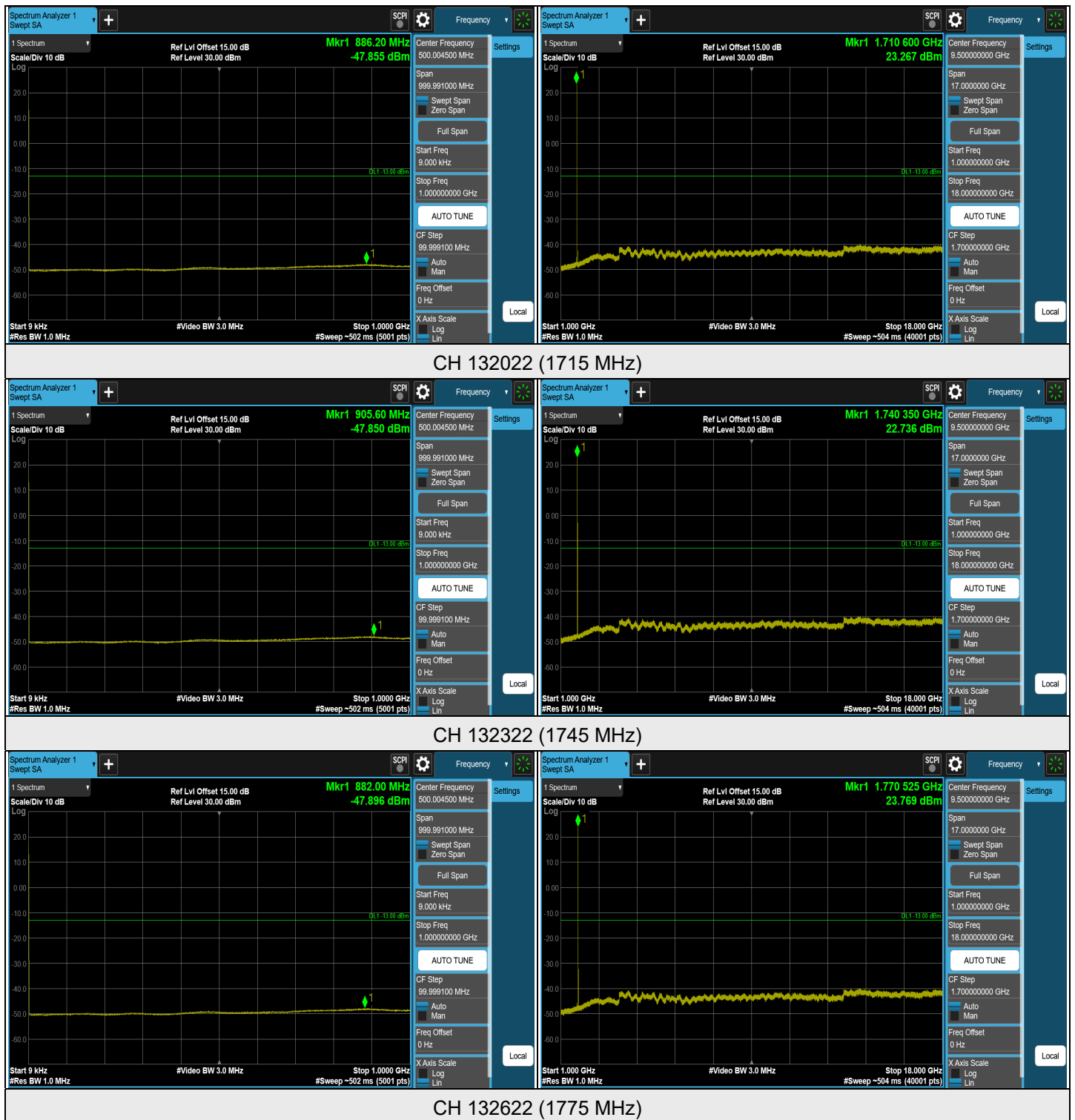


## LTE Band 66, Channel Bandwidth: 5 MHz

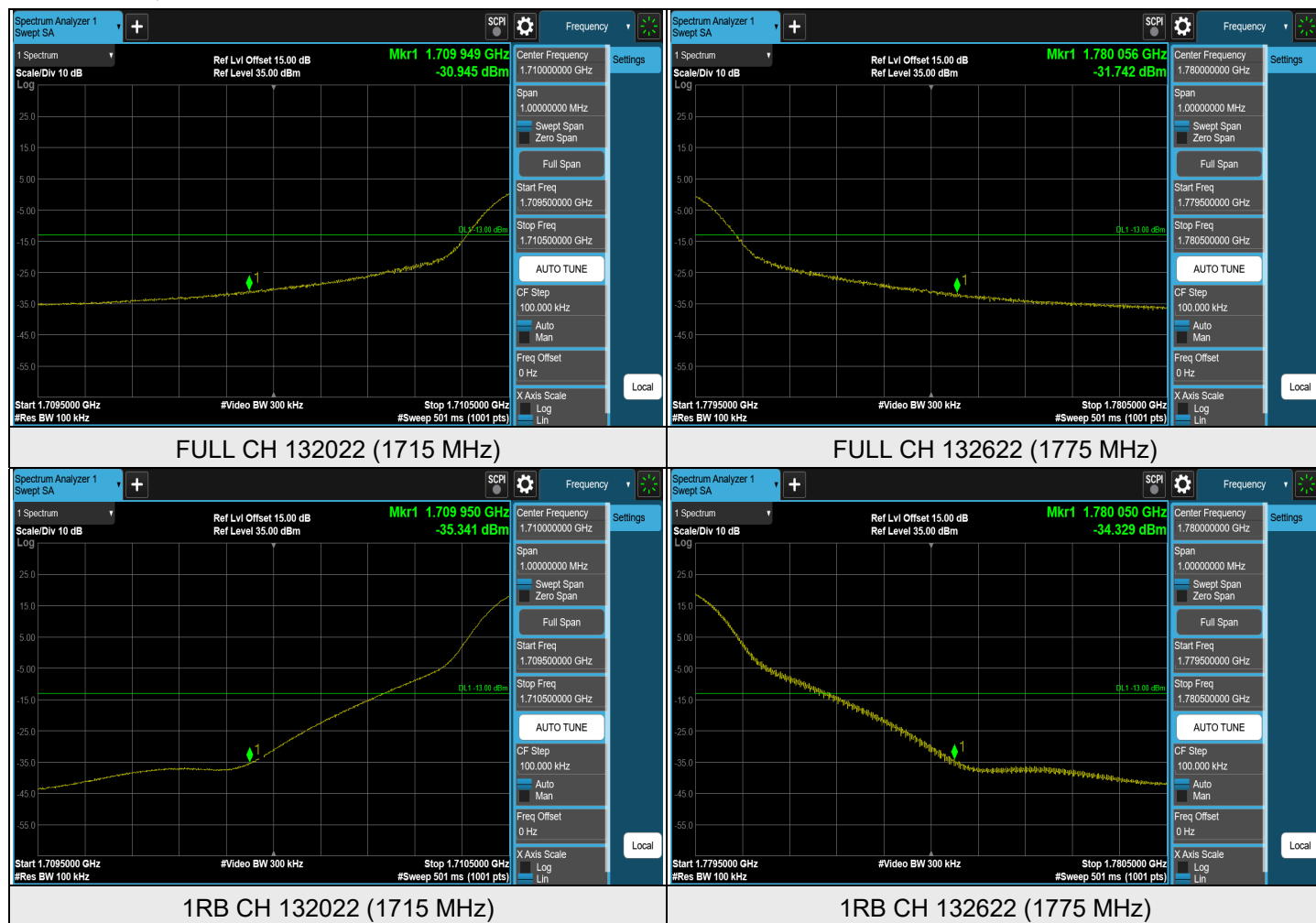


## LTE Band 66, Channel Bandwidth: 10 MHz

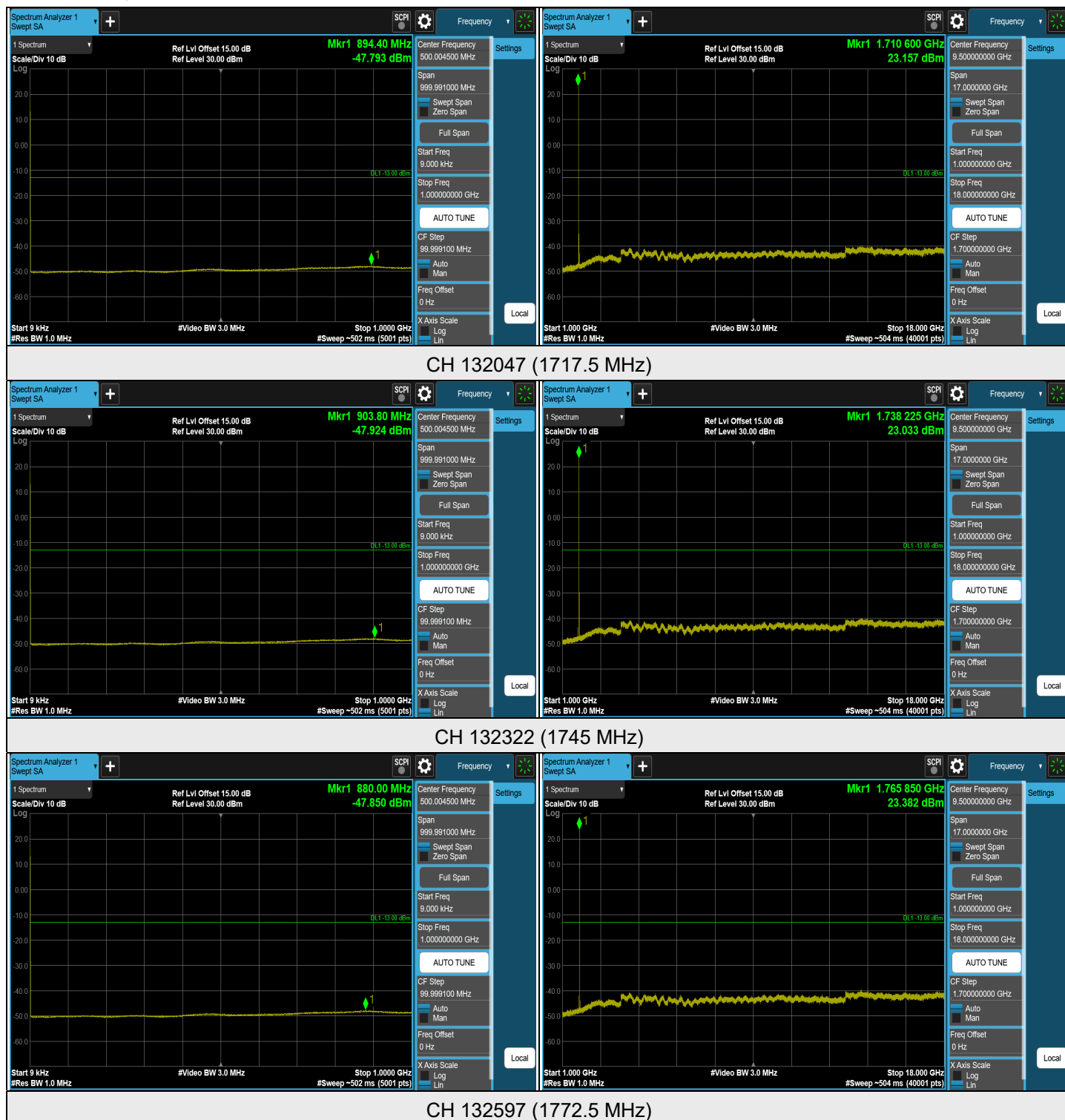


Note: The signal at 9 kHz is IF signal from spectrum analyzer.

## LTE Band 66, Channel Bandwidth: 10 MHz

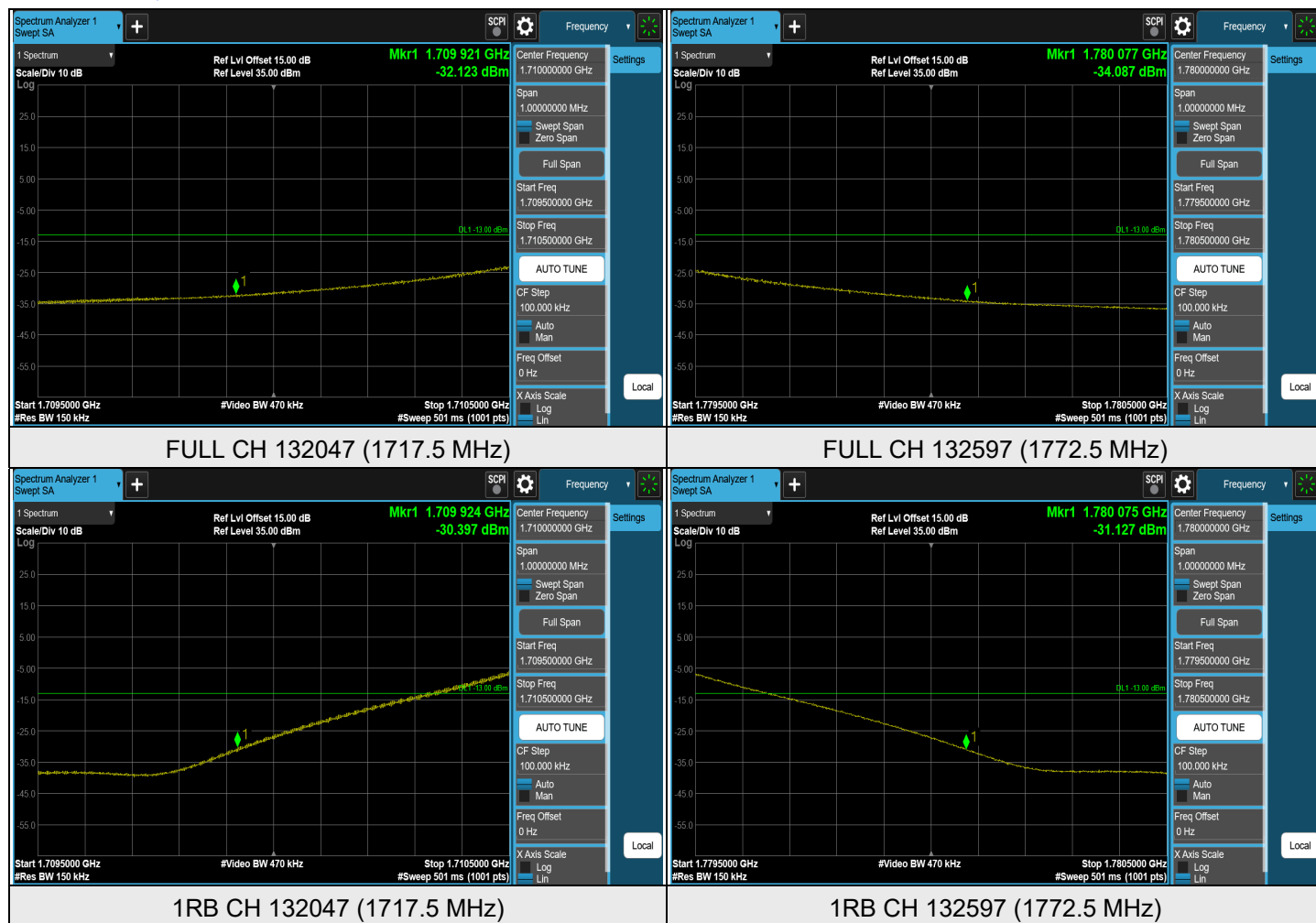


## LTE Band 66, Channel Bandwidth: 15 MHz

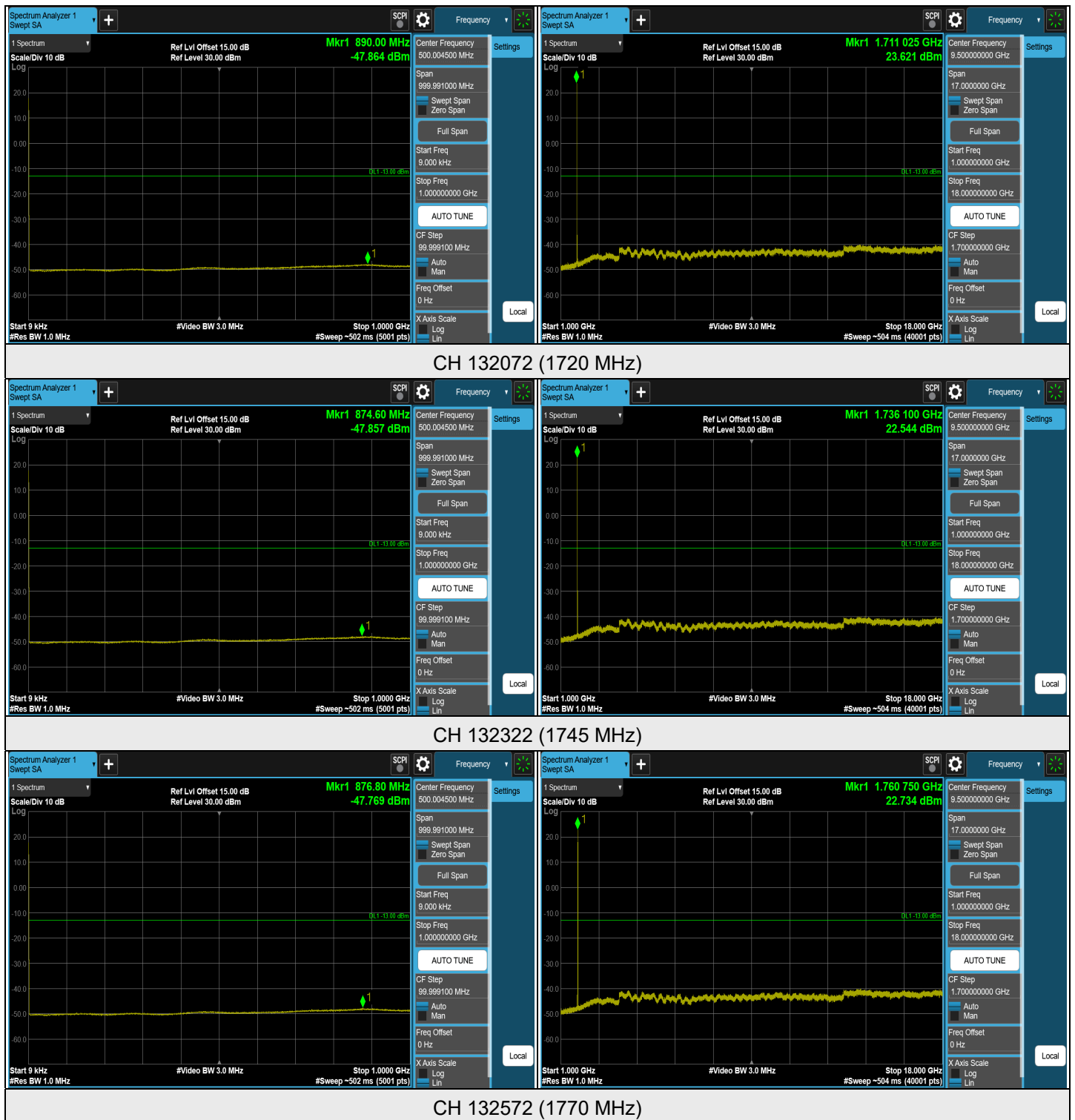


Note: The signal at 9 kHz is IF signal from spectrum analyzer.

## LTE Band 66, Channel Bandwidth: 15 MHz

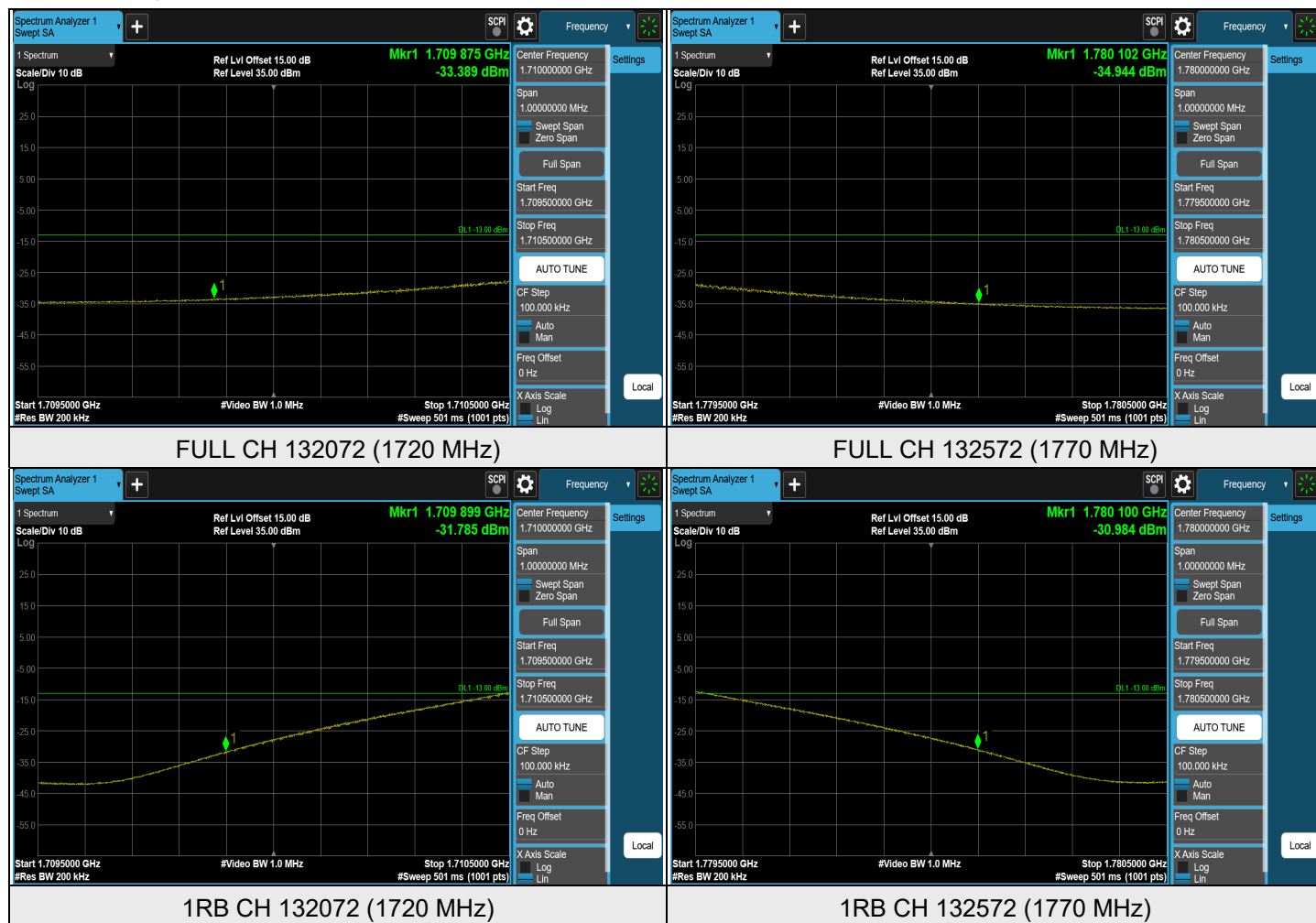


## LTE Band 66, Channel Bandwidth: 20 MHz



Note: The signal at 9 kHz is IF signal from spectrum analyzer.

## LTE Band 66, Channel Bandwidth: 20 MHz



## 7.5.13 LTE Band 71

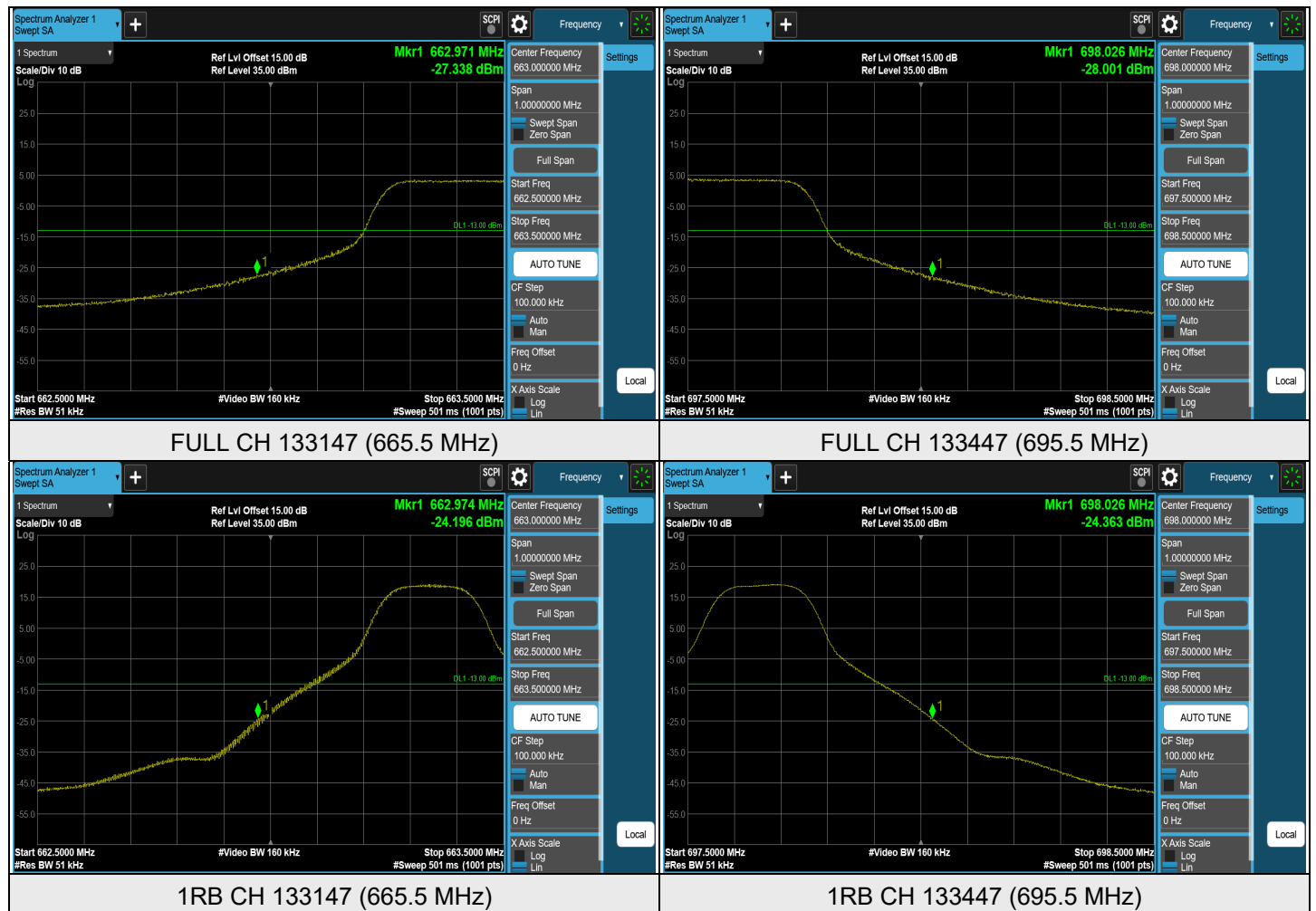
### LTE Band 71, Channel Bandwidth: 5 MHz



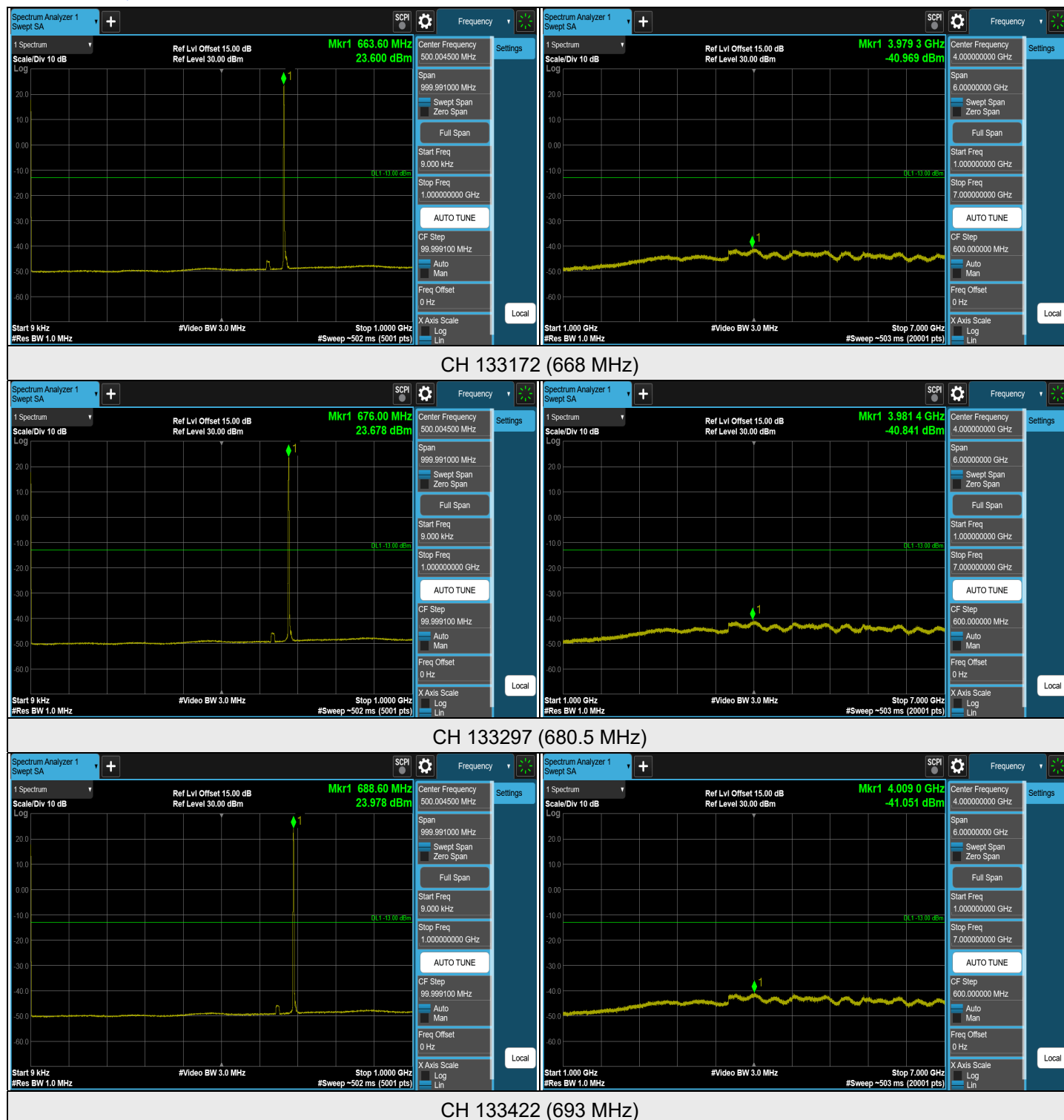
Note: The signal at 9 kHz is IF signal from spectrum analyzer.



## LTE Band 71, Channel Bandwidth: 5 MHz

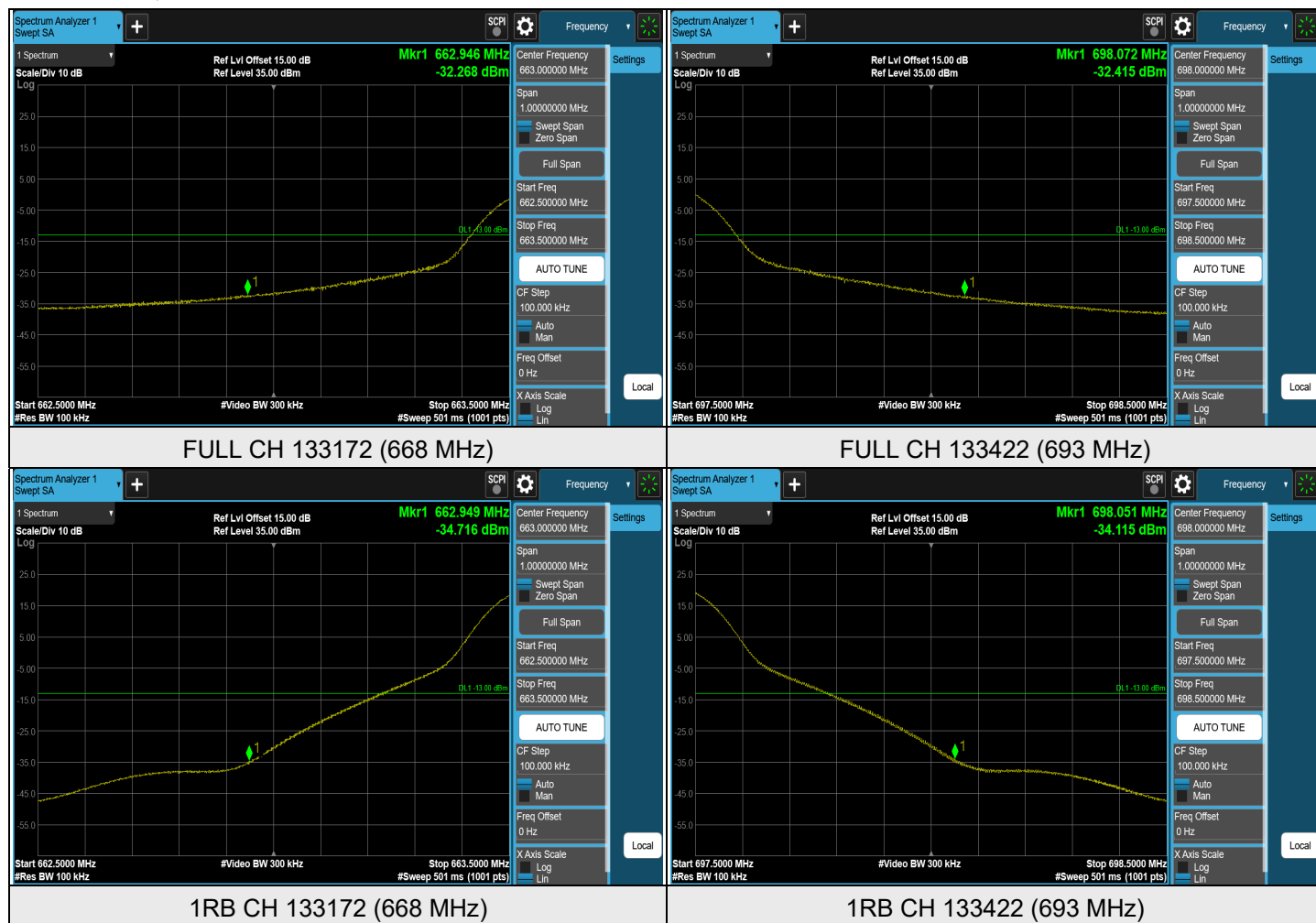


## LTE Band 71, Channel Bandwidth: 10 MHz

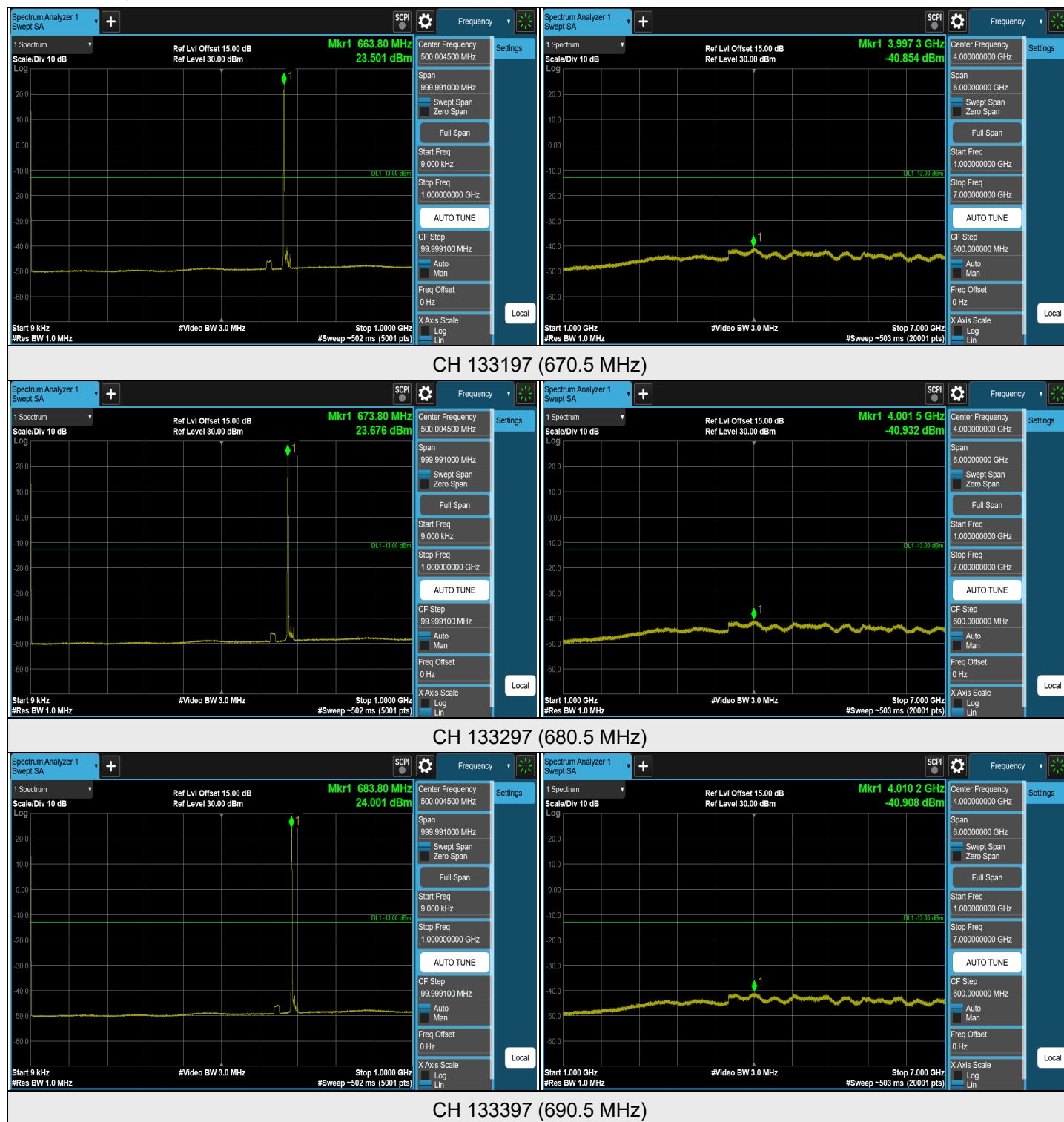


Note: The signal at 9 kHz is IF signal from spectrum analyzer.

## LTE Band 71, Channel Bandwidth: 10 MHz

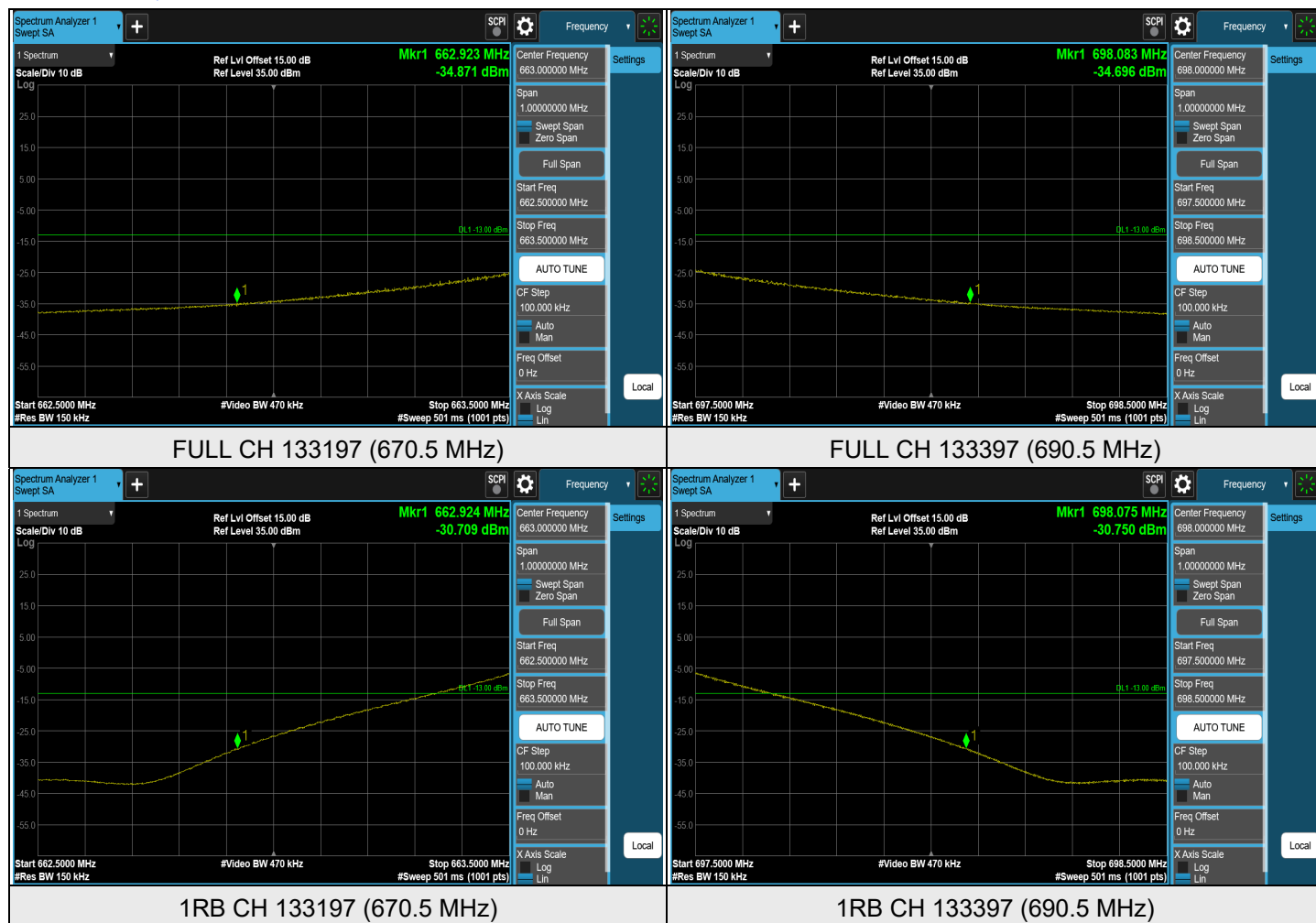


## LTE Band 71, Channel Bandwidth: 15 MHz

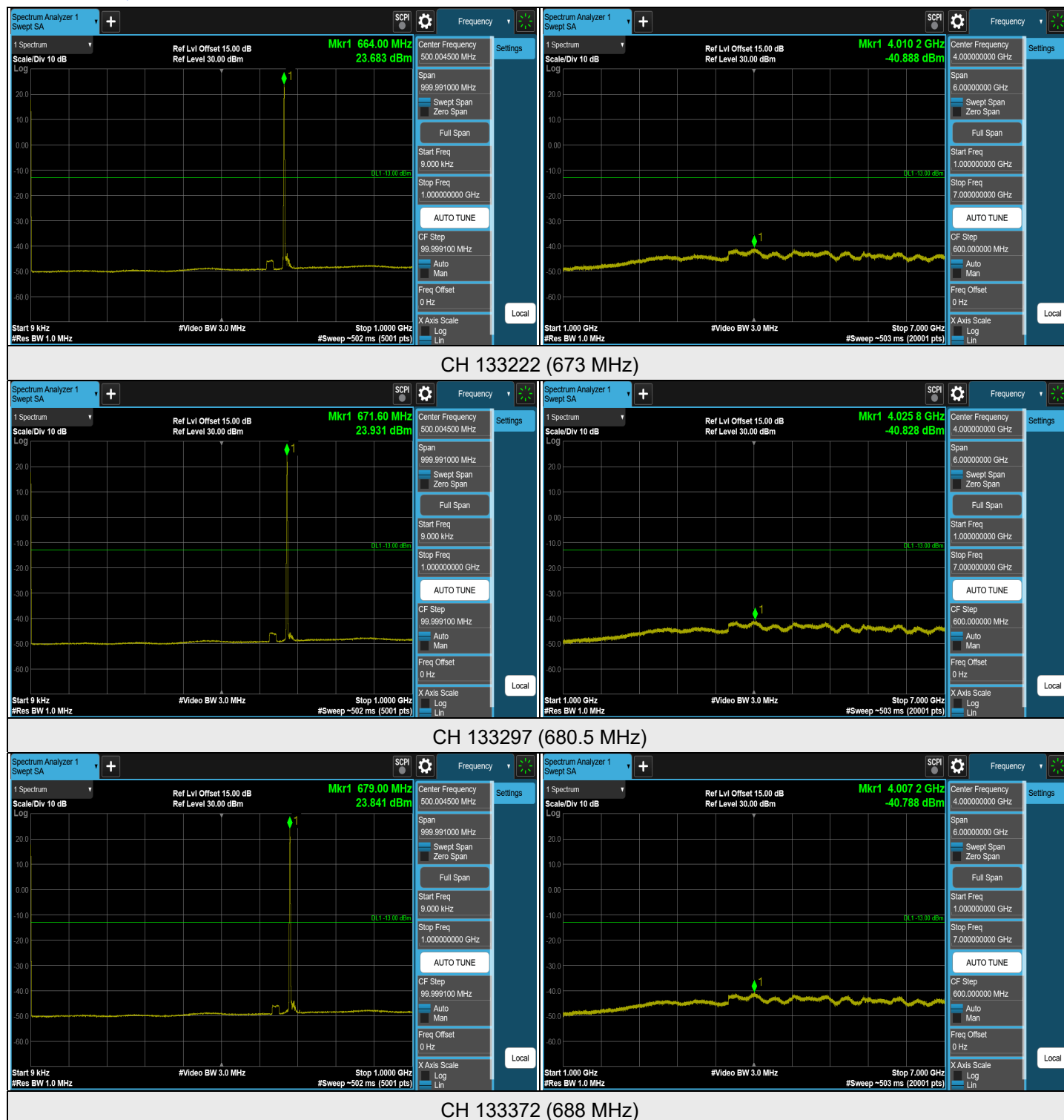


Note: The signal at 9 kHz is IF signal from spectrum analyzer.

## LTE Band 71, Channel Bandwidth: 15 MHz

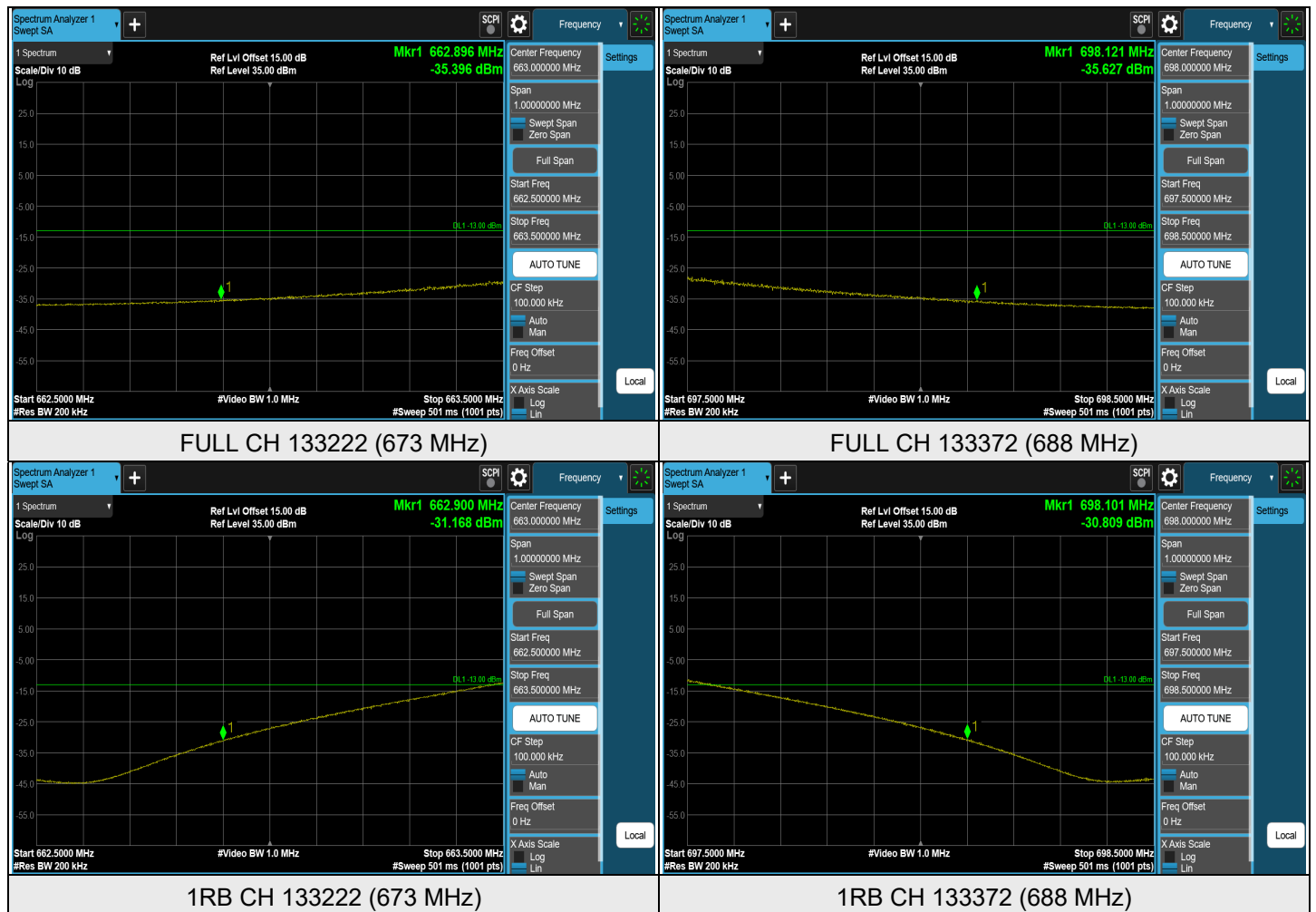


## LTE Band 71, Channel Bandwidth: 20 MHz



Note: The signal at 9 kHz is IF signal from spectrum analyzer.

## LTE Band 71, Channel Bandwidth: 20 MHz



## 7.6 Radiated Spurious Emissions below 1GHz

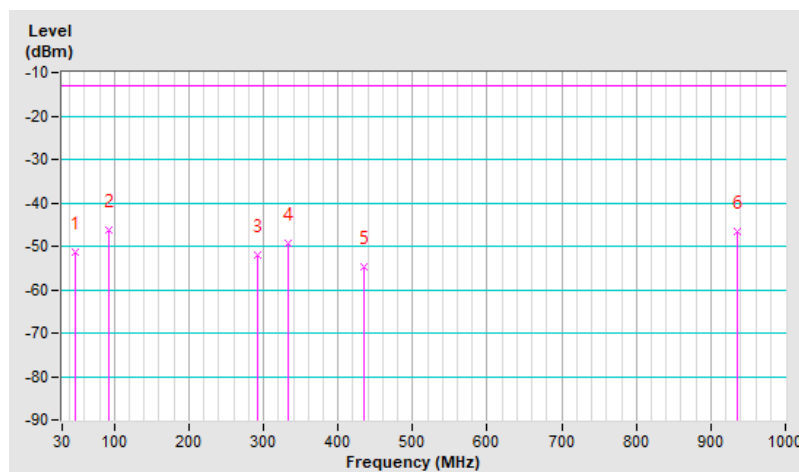
### 7.6.1 LTE Band 2

|                        |                                       |                                          |                       |
|------------------------|---------------------------------------|------------------------------------------|-----------------------|
| <b>RF Mode</b>         | LTE Band 2<br>Channel Bandwidth: 5MHz | <b>Channel</b>                           | CH 19175 : 1907.5 MHz |
| <b>Frequency Range</b> | 30 MHz ~ 1 GHz                        | <b>Detector Function &amp; Bandwidth</b> | 1 MHz/3 MHz (RMS)     |
| <b>Input Power</b>     | 120 Vac, 60 Hz                        | <b>Environmental Conditions</b>          | 22 °C, 68 % RH        |
| <b>Tested By</b>       | Greg Lin                              |                                          |                       |

| Antenna Polarity & Test Distance : Horizontal at 3 m |                 |            |             |             |                    |                      |                  |                          |
|------------------------------------------------------|-----------------|------------|-------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No                                                   | Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | 48.28           | -51.31     | -13.00      | -38.31      | 1.25 H             | 291                  | 52.83            | -104.14                  |
| 2                                                    | 93.26           | -46.26     | -13.00      | -33.26      | 1.00 H             | 297                  | 63.22            | -109.48                  |
| 3                                                    | 292.88          | -51.96     | -13.00      | -38.96      | 1.50 H             | 277                  | 50.75            | -102.71                  |
| 4                                                    | 332.25          | -49.39     | -13.00      | -36.39      | 1.00 H             | 279                  | 52.45            | -101.84                  |
| 5                                                    | 434.87          | -54.83     | -13.00      | -41.83      | 2.00 H             | 317                  | 45.07            | -99.90                   |
| 6                                                    | 935.33          | -46.46     | -13.00      | -33.46      | 1.25 H             | 6                    | 43.34            | -89.80                   |

#### Remarks:

1.  $EIRP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2.  $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8$
3.  $Margin\ value = EIRP - Limit\ value$
4. The other EIRP levels were very low against the limit of frequency range 30 MHz ~ 1 GHz.
5. The frequency range 9 kHz ~ 30 MHz: all emissions are more than 20 dB below the limit, therefore do not be recorded in this report.



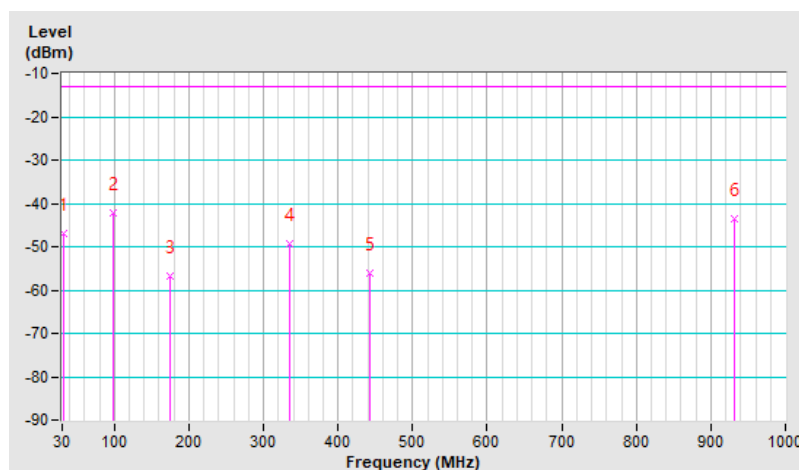


|                        |                                       |                                          |                       |
|------------------------|---------------------------------------|------------------------------------------|-----------------------|
| <b>RF Mode</b>         | LTE Band 2<br>Channel Bandwidth: 5MHz | <b>Channel</b>                           | CH 19175 : 1907.5 MHz |
| <b>Frequency Range</b> | 30 MHz ~ 1 GHz                        | <b>Detector Function &amp; Bandwidth</b> | 1 MHz/3 MHz (RMS)     |
| <b>Input Power</b>     | 120 Vac, 60 Hz                        | <b>Environmental Conditions</b>          | 22 °C, 68 % RH        |
| <b>Tested By</b>       | Greg Lin                              |                                          |                       |

| Antenna Polarity & Test Distance : Vertical at 3 m |                 |            |             |             |                    |                      |                  |                          |
|----------------------------------------------------|-----------------|------------|-------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No                                                 | Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                  | 32.81           | -46.99     | -13.00      | -33.99      | 1.25 V             | 21                   | 58.81            | -105.80                  |
| 2                                                  | 97.48           | -42.23     | -13.00      | -29.23      | 1.00 V             | 224                  | 66.85            | -109.08                  |
| 3                                                  | 174.80          | -56.86     | -13.00      | -43.86      | 1.50 V             | 95                   | 47.72            | -104.58                  |
| 4                                                  | 335.06          | -49.26     | -13.00      | -36.26      | 1.00 V             | 291                  | 52.57            | -101.83                  |
| 5                                                  | 441.90          | -56.10     | -13.00      | -43.10      | 1.00 V             | 356                  | 43.68            | -99.78                   |
| 6                                                  | 932.52          | -43.42     | -13.00      | -30.42      | 1.25 V             | 13                   | 46.39            | -89.81                   |

#### Remarks:

1.  $EIRP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2.  $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8$
3.  $Margin\ value = EIRP - Limit\ value$
4. The other EIRP levels were very low against the limit of frequency range 30 MHz ~ 1 GHz.
5. The frequency range 9 kHz ~ 30 MHz: all emissions are more than 20 dB below the limit, therefore do not be recorded in this report.



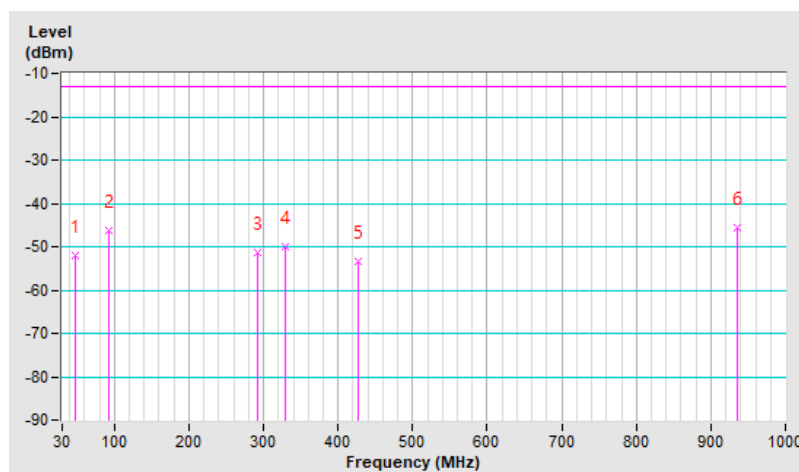
## 7.6.2 LTE Band 4

|                        |                                       |                                          |                       |
|------------------------|---------------------------------------|------------------------------------------|-----------------------|
| <b>RF Mode</b>         | LTE Band 4<br>Channel Bandwidth: 5MHz | <b>Channel</b>                           | CH 20175 : 1732.5 MHz |
| <b>Frequency Range</b> | 30 MHz ~ 1 GHz                        | <b>Detector Function &amp; Bandwidth</b> | 1 MHz/3 MHz (RMS)     |
| <b>Input Power</b>     | 120 Vac, 60 Hz                        | <b>Environmental Conditions</b>          | 22 °C, 68 % RH        |
| <b>Tested By</b>       | Greg Lin                              |                                          |                       |

| Antenna Polarity & Test Distance : Horizontal at 3 m |                 |            |             |             |                    |                      |                  |                          |
|------------------------------------------------------|-----------------|------------|-------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No                                                   | Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | 48.28           | -52.16     | -13.00      | -39.16      | 1.00 H             | 62                   | 51.98            | -104.14                  |
| 2                                                    | 91.86           | -46.33     | -13.00      | -33.33      | 1.50 H             | 293                  | 63.23            | -109.56                  |
| 3                                                    | 292.88          | -51.39     | -13.00      | -38.39      | 2.00 H             | 293                  | 51.32            | -102.71                  |
| 4                                                    | 329.43          | -50.15     | -13.00      | -37.15      | 1.25 H             | 286                  | 51.69            | -101.84                  |
| 5                                                    | 427.84          | -53.48     | -13.00      | -40.48      | 1.00 H             | 172                  | 46.63            | -100.11                  |
| 6                                                    | 935.33          | -45.66     | -13.00      | -32.66      | 1.50 H             | 234                  | 44.14            | -89.80                   |

### Remarks:

1.  $EIRP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2.  $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8$
3.  $Margin\ value = EIRP - Limit\ value$
4. The other EIRP levels were very low against the limit of frequency range 30 MHz ~ 1 GHz.
5. The frequency range 9 kHz ~ 30 MHz: all emissions are more than 20 dB below the limit, therefore do not be recorded in this report.

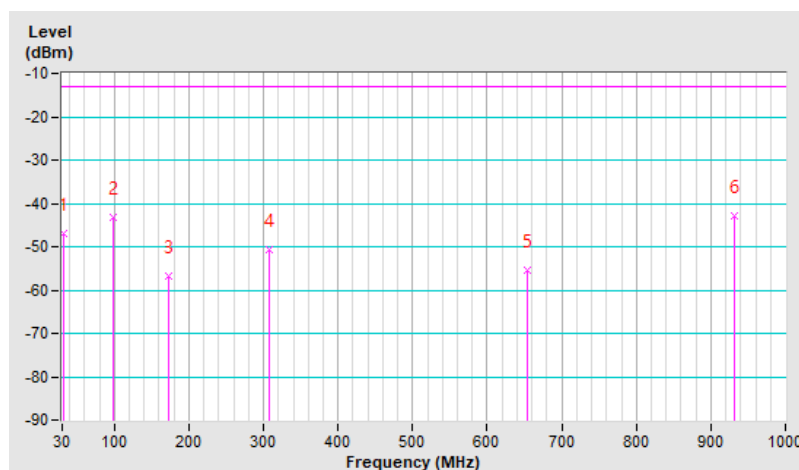


|                        |                                       |                                          |                       |
|------------------------|---------------------------------------|------------------------------------------|-----------------------|
| <b>RF Mode</b>         | LTE Band 4<br>Channel Bandwidth: 5MHz | <b>Channel</b>                           | CH 20175 : 1732.5 MHz |
| <b>Frequency Range</b> | 30 MHz ~ 1 GHz                        | <b>Detector Function &amp; Bandwidth</b> | 1 MHz/3 MHz (RMS)     |
| <b>Input Power</b>     | 120 Vac, 60 Hz                        | <b>Environmental Conditions</b>          | 22 °C, 68 % RH        |
| <b>Tested By</b>       | Greg Lin                              |                                          |                       |

| Antenna Polarity & Test Distance : Vertical at 3 m |                 |            |             |             |                    |                      |                  |                          |
|----------------------------------------------------|-----------------|------------|-------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No                                                 | Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                  | 32.81           | -46.96     | -13.00      | -33.96      | 1.25 V             | 99                   | 58.84            | -105.80                  |
| 2                                                  | 97.48           | -43.23     | -13.00      | -30.23      | 1.00 V             | 218                  | 65.85            | -109.08                  |
| 3                                                  | 171.99          | -56.70     | -13.00      | -43.70      | 1.50 V             | 353                  | 47.58            | -104.28                  |
| 4                                                  | 306.94          | -50.74     | -13.00      | -37.74      | 1.25 V             | 276                  | 51.57            | -102.31                  |
| 5                                                  | 654.17          | -55.52     | -13.00      | -42.52      | 1.00 V             | 355                  | 39.90            | -95.42                   |
| 6                                                  | 932.52          | -42.85     | -13.00      | -29.85      | 1.25 V             | 73                   | 46.96            | -89.81                   |

#### Remarks:

1.  $EIRP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2.  $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8$
3.  $Margin\ value = EIRP - Limit\ value$
4. The other EIRP levels were very low against the limit of frequency range 30 MHz ~ 1 GHz.
5. The frequency range 9 kHz ~ 30 MHz: all emissions are more than 20 dB below the limit, therefore do not be recorded in this report.



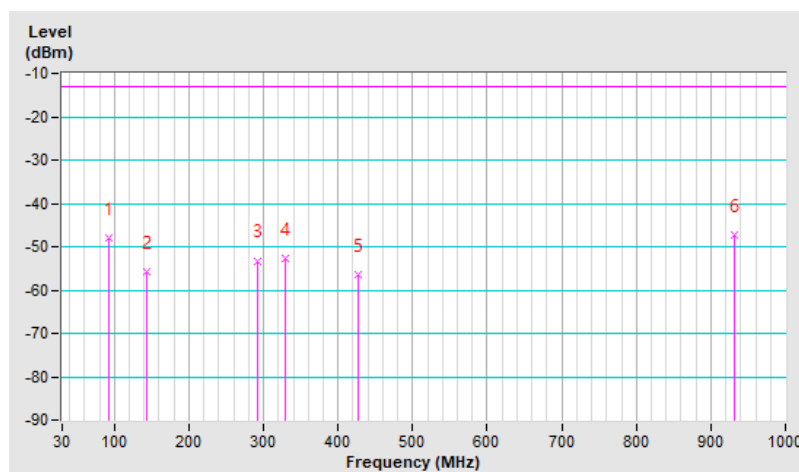
### 7.6.3 LTE Band 5

|                        |                                         |                                          |                      |
|------------------------|-----------------------------------------|------------------------------------------|----------------------|
| <b>RF Mode</b>         | LTE Band 5<br>Channel Bandwidth: 1.4MHz | <b>Channel</b>                           | CH 20407 : 824.7 MHz |
| <b>Frequency Range</b> | 30 MHz ~ 1 GHz                          | <b>Detector Function &amp; Bandwidth</b> | 1 MHz/3 MHz (RMS)    |
| <b>Input Power</b>     | 120 Vac, 60 Hz                          | <b>Environmental Conditions</b>          | 22 °C, 68 % RH       |
| <b>Tested By</b>       | Greg Lin                                |                                          |                      |

| Antenna Polarity & Test Distance : Horizontal at 3 m |                 |           |             |             |                    |                      |                  |                          |
|------------------------------------------------------|-----------------|-----------|-------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No                                                   | Frequency (MHz) | ERP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | 93.26           | -48.10    | -13.00      | -35.10      | 1.50 H             | 300                  | 63.53            | -111.63                  |
| 2                                                    | 143.87          | -55.82    | -13.00      | -42.82      | 1.25 H             | 271                  | 50.50            | -106.32                  |
| 3                                                    | 291.48          | -53.22    | -13.00      | -40.22      | 1.00 H             | 296                  | 51.67            | -104.89                  |
| 4                                                    | 329.43          | -52.83    | -13.00      | -39.83      | 1.25 H             | 304                  | 51.16            | -103.99                  |
| 5                                                    | 426.43          | -56.59    | -13.00      | -43.59      | 2.00 H             | 158                  | 45.72            | -102.31                  |
| 6                                                    | 932.52          | -47.31    | -13.00      | -34.31      | 1.50 H             | 31                   | 44.65            | -91.96                   |

#### Remarks:

- ERP(dBm) = Raw Value(dBuV) + Correction Factor(dB/m)
- Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + 20log(D) – 104.8 – 2.15
- Margin value = ERP – Limit value
- The other ERP levels were very low against the limit of frequency range 30 MHz ~ 1 GHz.
- The frequency range 9 kHz ~ 30 MHz: all emissions are more than 20 dB below the limit, therefore do not be recorded in this report.

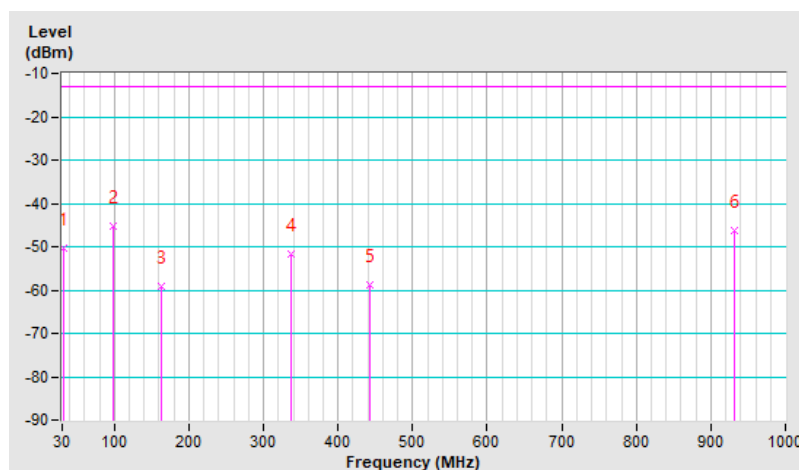


|                        |                                         |                                          |                      |
|------------------------|-----------------------------------------|------------------------------------------|----------------------|
| <b>RF Mode</b>         | LTE Band 5<br>Channel Bandwidth: 1.4MHz | <b>Channel</b>                           | CH 20407 : 824.7 MHz |
| <b>Frequency Range</b> | 30 MHz ~ 1 GHz                          | <b>Detector Function &amp; Bandwidth</b> | 1 MHz/3 MHz (RMS)    |
| <b>Input Power</b>     | 120 Vac, 60 Hz                          | <b>Environmental Conditions</b>          | 22 °C, 68 % RH       |
| <b>Tested By</b>       | Greg Lin                                |                                          |                      |

| Antenna Polarity & Test Distance : Vertical at 3 m |                 |           |             |             |                    |                      |                  |                          |
|----------------------------------------------------|-----------------|-----------|-------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No                                                 | Frequency (MHz) | ERP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                  | 32.81           | -50.18    | -13.00      | -37.18      | 1.00 V             | 299                  | 57.77            | -107.95                  |
| 2                                                  | 97.48           | -45.28    | -13.00      | -32.28      | 1.50 V             | 223                  | 65.95            | -111.23                  |
| 3                                                  | 162.14          | -59.11    | -13.00      | -46.11      | 1.25 V             | 318                  | 46.84            | -105.95                  |
| 4                                                  | 336.46          | -51.79    | -13.00      | -38.79      | 2.00 V             | 277                  | 52.20            | -103.99                  |
| 5                                                  | 443.30          | -58.72    | -13.00      | -45.72      | 1.00 V             | 321                  | 43.19            | -101.91                  |
| 6                                                  | 932.52          | -46.22    | -13.00      | -33.22      | 1.50 V             | 351                  | 45.74            | -91.96                   |

#### Remarks:

1.  $ERP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2.  $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8 - 2.15$
3.  $Margin\ value = ERP - Limit\ value$
4. The other ERP levels were very low against the limit of frequency range 30 MHz ~ 1 GHz.
5. The frequency range 9 kHz ~ 30 MHz: all emissions are more than 20 dB below the limit, therefore do not be recorded in this report.



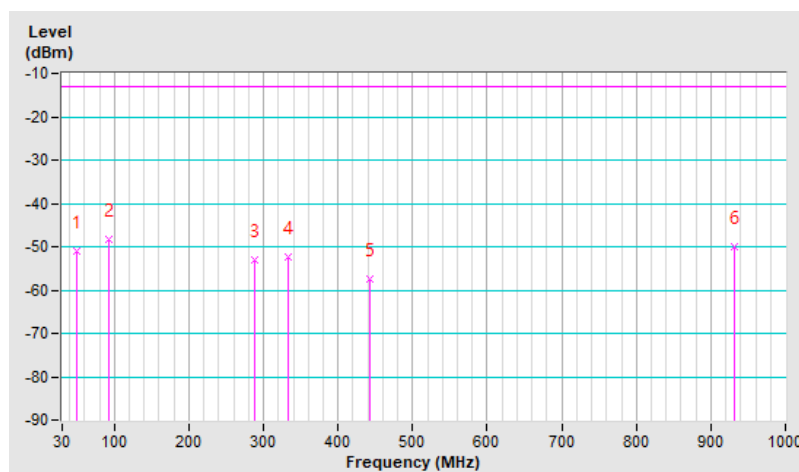
#### 7.6.4 LTE Band 12

|                        |                                         |                                          |                    |
|------------------------|-----------------------------------------|------------------------------------------|--------------------|
| <b>RF Mode</b>         | LTE Band 12<br>Channel Bandwidth: 10MHz | <b>Channel</b>                           | CH 23060 : 704 MHz |
| <b>Frequency Range</b> | 30 MHz ~ 1 GHz                          | <b>Detector Function &amp; Bandwidth</b> | 1 MHz/3 MHz (RMS)  |
| <b>Input Power</b>     | 120 Vac, 60 Hz                          | <b>Environmental Conditions</b>          | 22 °C, 68 % RH     |
| <b>Tested By</b>       | Greg Lin                                |                                          |                    |

| Antenna Polarity & Test Distance : Horizontal at 3 m |                 |           |             |             |                    |                      |                  |                          |
|------------------------------------------------------|-----------------|-----------|-------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No                                                   | Frequency (MHz) | ERP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | 49.68           | -51.03    | -13.00      | -38.03      | 1.25 H             | 168                  | 55.25            | -106.28                  |
| 2                                                    | 93.26           | -48.43    | -13.00      | -35.43      | 1.50 H             | 303                  | 63.20            | -111.63                  |
| 3                                                    | 288.67          | -53.03    | -13.00      | -40.03      | 1.00 H             | 283                  | 51.92            | -104.95                  |
| 4                                                    | 333.65          | -52.45    | -13.00      | -39.45      | 1.00 H             | 297                  | 51.54            | -103.99                  |
| 5                                                    | 443.30          | -57.31    | -13.00      | -44.31      | 1.25 H             | 322                  | 44.60            | -101.91                  |
| 6                                                    | 932.52          | -50.14    | -13.00      | -37.14      | 1.00 H             | 122                  | 41.82            | -91.96                   |

#### Remarks:

1.  $ERP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2.  $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8 - 2.15$
3.  $Margin\ value = ERP - Limit\ value$
4. The other ERP levels were very low against the limit of frequency range 30 MHz ~ 1 GHz.
5. The frequency range 9 kHz ~ 30 MHz: all emissions are more than 20 dB below the limit, therefore do not be recorded in this report.

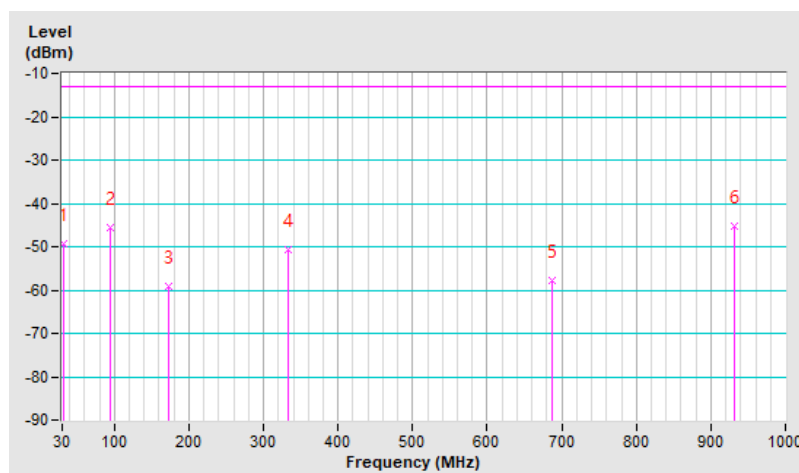


|                        |                                         |                                          |                    |
|------------------------|-----------------------------------------|------------------------------------------|--------------------|
| <b>RF Mode</b>         | LTE Band 12<br>Channel Bandwidth: 10MHz | <b>Channel</b>                           | CH 23060 : 704 MHz |
| <b>Frequency Range</b> | 30 MHz ~ 1 GHz                          | <b>Detector Function &amp; Bandwidth</b> | 1 MHz/3 MHz (RMS)  |
| <b>Input Power</b>     | 120 Vac, 60 Hz                          | <b>Environmental Conditions</b>          | 22 °C, 68 % RH     |
| <b>Tested By</b>       | Greg Lin                                |                                          |                    |

| Antenna Polarity & Test Distance : Vertical at 3 m |                 |           |             |             |                    |                      |                  |                          |
|----------------------------------------------------|-----------------|-----------|-------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No                                                 | Frequency (MHz) | ERP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                  | 32.81           | -49.44    | -13.00      | -36.44      | 1.00 V             | 164                  | 58.51            | -107.95                  |
| 2                                                  | 94.67           | -45.45    | -13.00      | -32.45      | 1.50 V             | 233                  | 66.07            | -111.52                  |
| 3                                                  | 173.39          | -59.24    | -13.00      | -46.24      | 1.25 V             | 250                  | 47.35            | -106.59                  |
| 4                                                  | 332.25          | -50.84    | -13.00      | -37.84      | 1.50 V             | 283                  | 53.15            | -103.99                  |
| 5                                                  | 687.91          | -57.84    | -13.00      | -44.84      | 1.00 V             | 191                  | 39.19            | -97.03                   |
| 6                                                  | 932.52          | -45.29    | -13.00      | -32.29      | 1.25 V             | 104                  | 46.67            | -91.96                   |

#### Remarks:

1.  $ERP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2.  $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8 - 2.15$
3.  $Margin\ value = ERP - Limit\ value$
4. The other ERP levels were very low against the limit of frequency range 30 MHz ~ 1 GHz.
5. The frequency range 9 kHz ~ 30 MHz: all emissions are more than 20 dB below the limit, therefore do not be recorded in this report.



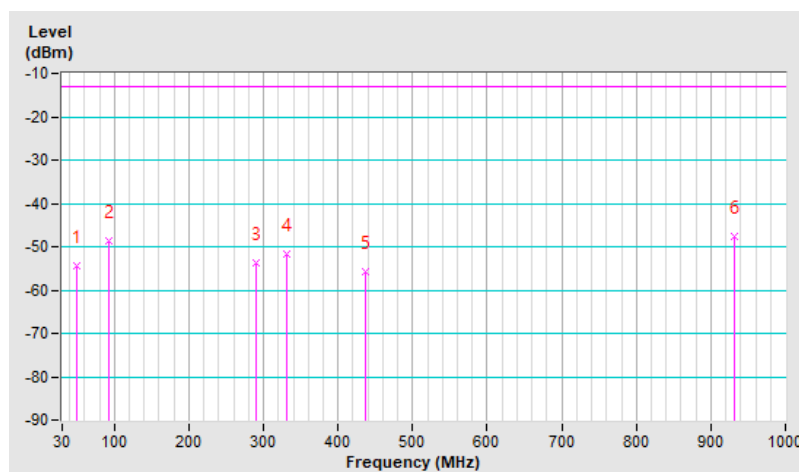
### 7.6.5 LTE Band 13

|                        |                                        |                                          |                    |
|------------------------|----------------------------------------|------------------------------------------|--------------------|
| <b>RF Mode</b>         | LTE Band 13<br>Channel Bandwidth: 5MHz | <b>Channel</b>                           | CH 23230 : 782 MHz |
| <b>Frequency Range</b> | 30 MHz ~ 1 GHz                         | <b>Detector Function &amp; Bandwidth</b> | 1 MHz/3 MHz (RMS)  |
| <b>Input Power</b>     | 120 Vac, 60 Hz                         | <b>Environmental Conditions</b>          | 22 °C, 68 % RH     |
| <b>Tested By</b>       | Greg Lin                               |                                          |                    |

| Antenna Polarity & Test Distance : Horizontal at 3 m |                 |           |             |             |                    |                      |                  |                          |
|------------------------------------------------------|-----------------|-----------|-------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No                                                   | Frequency (MHz) | ERP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | 49.68           | -54.53    | -13.00      | -41.53      | 1.50 H             | 11                   | 51.75            | -106.28                  |
| 2                                                    | 93.26           | -48.68    | -13.00      | -35.68      | 1.25 H             | 290                  | 62.95            | -111.63                  |
| 3                                                    | 290.07          | -53.67    | -13.00      | -40.67      | 1.50 H             | 304                  | 51.25            | -104.92                  |
| 4                                                    | 330.84          | -51.75    | -13.00      | -38.75      | 1.00 H             | 290                  | 52.24            | -103.99                  |
| 5                                                    | 436.28          | -55.69    | -13.00      | -42.69      | 1.00 H             | 319                  | 46.33            | -102.02                  |
| 6                                                    | 932.52          | -47.65    | -13.00      | -34.65      | 1.25 H             | 6                    | 44.31            | -91.96                   |

#### Remarks:

1.  $ERP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2.  $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8 - 2.15$
3.  $Margin\ value = ERP - Limit\ value$
4. The other ERP levels were very low against the limit of frequency range 30 MHz ~ 1 GHz.
5. The frequency range 9 kHz ~ 30 MHz: all emissions are more than 20 dB below the limit, therefore do not be recorded in this report.



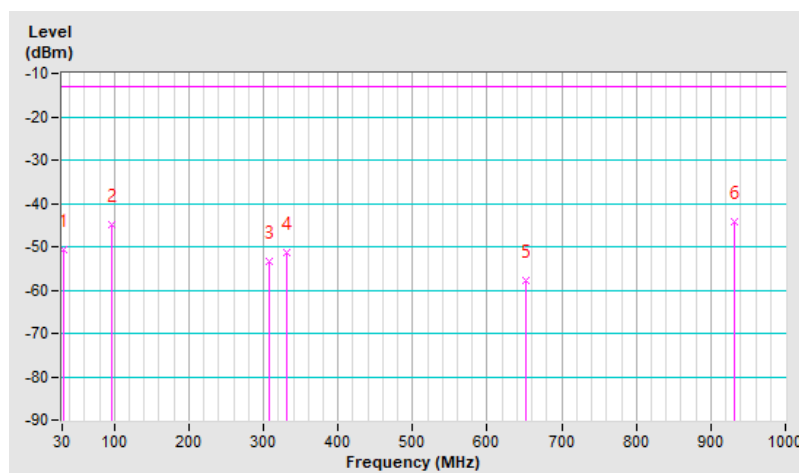


|                        |                                        |                                          |                    |
|------------------------|----------------------------------------|------------------------------------------|--------------------|
| <b>RF Mode</b>         | LTE Band 13<br>Channel Bandwidth: 5MHz | <b>Channel</b>                           | CH 23230 : 782 MHz |
| <b>Frequency Range</b> | 30 MHz ~ 1 GHz                         | <b>Detector Function &amp; Bandwidth</b> | 1 MHz/3 MHz (RMS)  |
| <b>Input Power</b>     | 120 Vac, 60 Hz                         | <b>Environmental Conditions</b>          | 22 °C, 68 % RH     |
| <b>Tested By</b>       | Greg Lin                               |                                          |                    |

| Antenna Polarity & Test Distance : Vertical at 3 m |                 |           |             |             |                    |                      |                  |                          |
|----------------------------------------------------|-----------------|-----------|-------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No                                                 | Frequency (MHz) | ERP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                  | 32.81           | -50.52    | -13.00      | -37.52      | 1.50 V             | 16                   | 57.43            | -107.95                  |
| 2                                                  | 96.07           | -45.07    | -13.00      | -32.07      | 1.25 V             | 249                  | 66.57            | -111.64                  |
| 3                                                  | 306.94          | -53.48    | -13.00      | -40.48      | 1.00 V             | 291                  | 50.98            | -104.46                  |
| 4                                                  | 330.84          | -51.50    | -13.00      | -38.50      | 1.50 V             | 270                  | 52.49            | -103.99                  |
| 5                                                  | 652.77          | -57.64    | -13.00      | -44.64      | 1.00 V             | 260                  | 39.96            | -97.60                   |
| 6                                                  | 932.52          | -44.18    | -13.00      | -31.18      | 1.25 V             | 48                   | 47.78            | -91.96                   |

#### Remarks:

1.  $ERP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2.  $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8 - 2.15$
3.  $Margin\ value = ERP - Limit\ value$
4. The other ERP levels were very low against the limit of frequency range 30 MHz ~ 1 GHz.
5. The frequency range 9 kHz ~ 30 MHz: all emissions are more than 20 dB below the limit, therefore do not be recorded in this report.



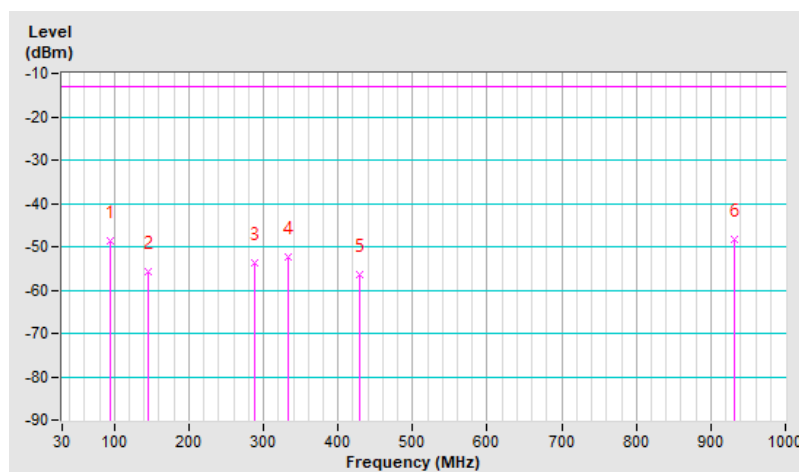
## 7.6.6 LTE Band 25

|                        |                                        |                                          |                       |
|------------------------|----------------------------------------|------------------------------------------|-----------------------|
| <b>RF Mode</b>         | LTE Band 25<br>Channel Bandwidth: 5MHz | <b>Channel</b>                           | CH 26365 : 1882.5 MHz |
| <b>Frequency Range</b> | 30 MHz ~ 1 GHz                         | <b>Detector Function &amp; Bandwidth</b> | 1 MHz/3 MHz (RMS)     |
| <b>Input Power</b>     | 120 Vac, 60 Hz                         | <b>Environmental Conditions</b>          | 22 °C, 68 % RH        |
| <b>Tested By</b>       | Greg Lin                               |                                          |                       |

| Antenna Polarity & Test Distance : Horizontal at 3 m |                 |            |             |             |                    |                      |                  |                          |
|------------------------------------------------------|-----------------|------------|-------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No                                                   | Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | 94.67           | -48.55     | -13.00      | -35.55      | 1.50 H             | 296                  | 60.82            | -109.37                  |
| 2                                                    | 145.28          | -55.74     | -13.00      | -42.74      | 1.00 H             | 295                  | 48.30            | -104.04                  |
| 3                                                    | 288.67          | -53.61     | -13.00      | -40.61      | 1.25 H             | 289                  | 49.19            | -102.80                  |
| 4                                                    | 332.25          | -52.30     | -13.00      | -39.30      | 1.00 H             | 273                  | 49.54            | -101.84                  |
| 5                                                    | 429.25          | -56.51     | -13.00      | -43.51      | 1.25 H             | 333                  | 43.55            | -100.06                  |
| 6                                                    | 932.52          | -48.40     | -13.00      | -35.40      | 1.50 H             | 285                  | 41.41            | -89.81                   |

### Remarks:

1.  $EIRP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2.  $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8$
3.  $Margin\ value = EIRP - Limit\ value$
4. The other EIRP levels were very low against the limit of frequency range 30 MHz ~ 1 GHz.
5. The frequency range 9 kHz ~ 30 MHz: all emissions are more than 20 dB below the limit, therefore do not be recorded in this report.

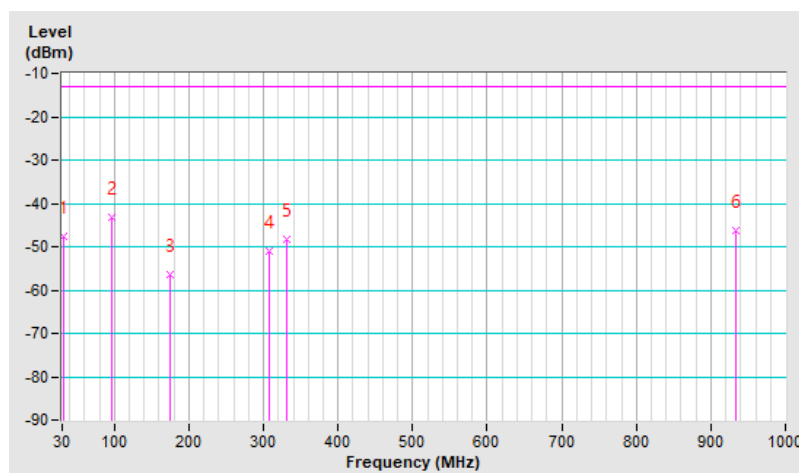


|                        |                                        |                                          |                       |
|------------------------|----------------------------------------|------------------------------------------|-----------------------|
| <b>RF Mode</b>         | LTE Band 25<br>Channel Bandwidth: 5MHz | <b>Channel</b>                           | CH 26365 : 1882.5 MHz |
| <b>Frequency Range</b> | 30 MHz ~ 1 GHz                         | <b>Detector Function &amp; Bandwidth</b> | 1 MHz/3 MHz (RMS)     |
| <b>Input Power</b>     | 120 Vac, 60 Hz                         | <b>Environmental Conditions</b>          | 22 °C, 68 % RH        |
| <b>Tested By</b>       | Greg Lin                               |                                          |                       |

| Antenna Polarity & Test Distance : Vertical at 3 m |                 |            |             |             |                    |                      |                  |                          |
|----------------------------------------------------|-----------------|------------|-------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No                                                 | Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                  | 32.81           | -47.74     | -13.00      | -34.74      | 1.25 V             | 184                  | 58.06            | -105.80                  |
| 2                                                  | 96.07           | -43.20     | -13.00      | -30.20      | 1.50 V             | 254                  | 66.29            | -109.49                  |
| 3                                                  | 174.80          | -56.60     | -13.00      | -43.60      | 1.25 V             | 230                  | 47.98            | -104.58                  |
| 4                                                  | 308.35          | -50.93     | -13.00      | -37.93      | 2.00 V             | 140                  | 51.34            | -102.27                  |
| 5                                                  | 330.84          | -48.23     | -13.00      | -35.23      | 1.00 V             | 263                  | 53.61            | -101.84                  |
| 6                                                  | 933.93          | -46.19     | -13.00      | -33.19      | 1.50 V             | 300                  | 43.62            | -89.81                   |

#### Remarks:

1.  $EIRP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2.  $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8$
3.  $Margin\ value = EIRP - Limit\ value$
4. The other EIRP levels were very low against the limit of frequency range 30 MHz ~ 1 GHz.
5. The frequency range 9 kHz ~ 30 MHz: all emissions are more than 20 dB below the limit, therefore do not be recorded in this report.



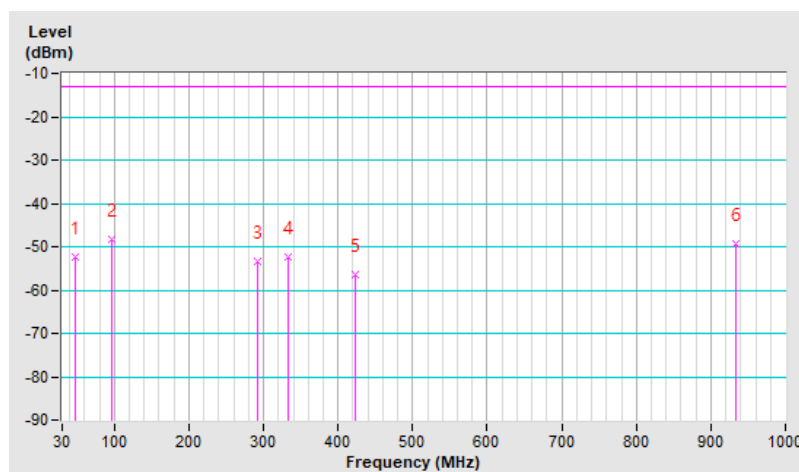
### 7.6.7 LTE Band 26 (814 MHz ~ 824 MHz)

|                        |                                                            |                                          |                      |
|------------------------|------------------------------------------------------------|------------------------------------------|----------------------|
| <b>RF Mode</b>         | LTE Band 26 (814 MHz ~ 824 MHz)<br>Channel Bandwidth: 5MHz | <b>Channel</b>                           | CH 26715 : 816.5 MHz |
| <b>Frequency Range</b> | 30 MHz ~ 1 GHz                                             | <b>Detector Function &amp; Bandwidth</b> | 1 MHz/3 MHz (RMS)    |
| <b>Input Power</b>     | 120 Vac, 60 Hz                                             | <b>Environmental Conditions</b>          | 22 °C, 68 % RH       |
| <b>Tested By</b>       | Greg Lin                                                   |                                          |                      |

| Antenna Polarity & Test Distance : Horizontal at 3 m |                 |           |             |             |                    |                      |                  |                          |
|------------------------------------------------------|-----------------|-----------|-------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No                                                   | Frequency (MHz) | ERP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | 48.28           | -52.34    | -13.00      | -39.34      | 1.25 H             | 110                  | 53.95            | -106.29                  |
| 2                                                    | 96.07           | -48.43    | -13.00      | -35.43      | 1.50 H             | 273                  | 63.21            | -111.64                  |
| 3                                                    | 292.88          | -53.28    | -13.00      | -40.28      | 2.00 H             | 279                  | 51.58            | -104.86                  |
| 4                                                    | 333.65          | -52.41    | -13.00      | -39.41      | 1.25 H             | 297                  | 51.58            | -103.99                  |
| 5                                                    | 423.62          | -56.44    | -13.00      | -43.44      | 1.00 H             | 163                  | 45.97            | -102.41                  |
| 6                                                    | 933.93          | -49.23    | -13.00      | -36.23      | 1.50 H             | 82                   | 42.73            | -91.96                   |

#### Remarks:

- ERP(dBm) = Raw Value(dBuV) + Correction Factor(dB/m)
- Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)  
+ 20log(D) – 104.8 – 2.15
- Margin value = ERP – Limit value
- The other ERP levels were very low against the limit of frequency range 30 MHz ~ 1 GHz.
- The frequency range 9 kHz ~ 30 MHz: all emissions are more than 20 dB below the limit, therefore do not be recorded in this report.

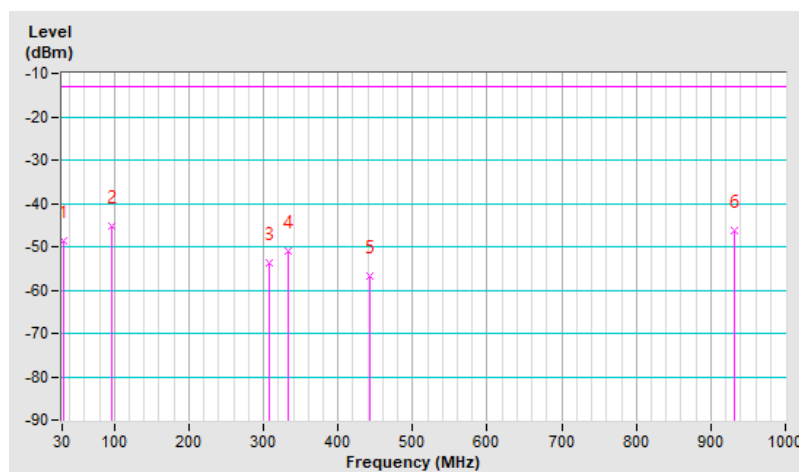


|                        |                                                            |                                          |                      |
|------------------------|------------------------------------------------------------|------------------------------------------|----------------------|
| <b>RF Mode</b>         | LTE Band 26 (814 MHz ~ 824 MHz)<br>Channel Bandwidth: 5MHz | <b>Channel</b>                           | CH 26715 : 816.5 MHz |
| <b>Frequency Range</b> | 30 MHz ~ 1 GHz                                             | <b>Detector Function &amp; Bandwidth</b> | 1 MHz/3 MHz (RMS)    |
| <b>Input Power</b>     | 120 Vac, 60 Hz                                             | <b>Environmental Conditions</b>          | 22 °C, 68 % RH       |
| <b>Tested By</b>       | Greg Lin                                                   |                                          |                      |

| Antenna Polarity & Test Distance : Vertical at 3 m |                 |           |             |             |                    |                      |                  |                          |
|----------------------------------------------------|-----------------|-----------|-------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No                                                 | Frequency (MHz) | ERP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                  | 31.41           | -48.73    | -13.00      | -35.73      | 1.00 V             | 139                  | 59.39            | -108.12                  |
| 2                                                  | 96.07           | -45.36    | -13.00      | -32.36      | 1.25 V             | 210                  | 66.28            | -111.64                  |
| 3                                                  | 306.94          | -53.81    | -13.00      | -40.81      | 1.50 V             | 139                  | 50.65            | -104.46                  |
| 4                                                  | 332.25          | -51.05    | -13.00      | -38.05      | 1.50 V             | 287                  | 52.94            | -103.99                  |
| 5                                                  | 443.30          | -56.93    | -13.00      | -43.93      | 1.00 V             | 308                  | 44.98            | -101.91                  |
| 6                                                  | 932.52          | -46.16    | -13.00      | -33.16      | 1.25 V             | 87                   | 45.80            | -91.96                   |

**Remarks:**

1.  $ERP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2.  $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8 - 2.15$
3.  $Margin\ value = ERP - Limit\ value$
4. The other ERP levels were very low against the limit of frequency range 30 MHz ~ 1 GHz.
5. The frequency range 9 kHz ~ 30 MHz: all emissions are more than 20 dB below the limit, therefore do not be recorded in this report.



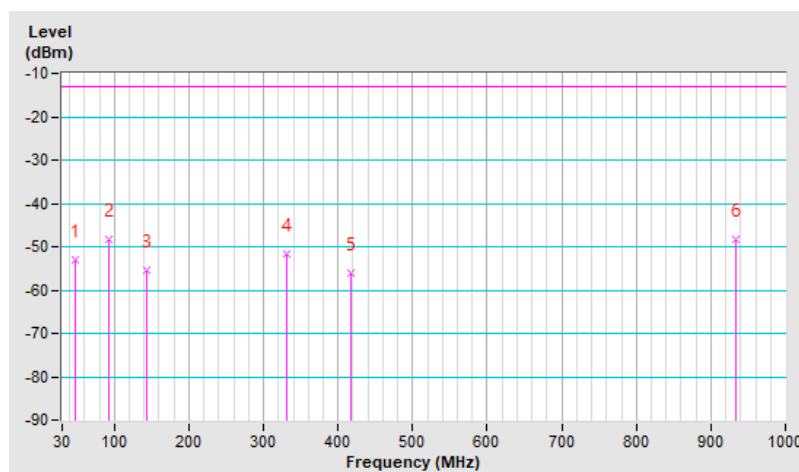
### 7.6.8 LTE Band 26 (824 MHz ~ 849 MHz)

|                        |                                                              |                                          |                      |
|------------------------|--------------------------------------------------------------|------------------------------------------|----------------------|
| <b>RF Mode</b>         | LTE Band 26 (824 MHz ~ 849 MHz)<br>Channel Bandwidth: 1.4MHz | <b>Channel</b>                           | CH 26915 : 836.5 MHz |
| <b>Frequency Range</b> | 30 MHz ~ 1 GHz                                               | <b>Detector Function &amp; Bandwidth</b> | 1 MHz/3 MHz (RMS)    |
| <b>Input Power</b>     | 120 Vac, 60 Hz                                               | <b>Environmental Conditions</b>          | 22 °C, 68 % RH       |
| <b>Tested By</b>       | Greg Lin                                                     |                                          |                      |

| Antenna Polarity & Test Distance : Horizontal at 3 m |                 |           |             |             |                    |                      |                  |                          |
|------------------------------------------------------|-----------------|-----------|-------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No                                                   | Frequency (MHz) | ERP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | 48.28           | -53.02    | -13.00      | -40.02      | 1.00 H             | 284                  | 53.27            | -106.29                  |
| 2                                                    | 91.86           | -48.23    | -13.00      | -35.23      | 1.25 H             | 292                  | 63.48            | -111.71                  |
| 3                                                    | 143.87          | -55.31    | -13.00      | -42.31      | 1.00 H             | 262                  | 51.01            | -106.32                  |
| 4                                                    | 330.84          | -51.58    | -13.00      | -38.58      | 1.50 H             | 309                  | 52.41            | -103.99                  |
| 5                                                    | 416.59          | -56.26    | -13.00      | -43.26      | 1.00 H             | 166                  | 46.40            | -102.66                  |
| 6                                                    | 933.93          | -48.21    | -13.00      | -35.21      | 1.25 H             | 6                    | 43.75            | -91.96                   |

#### Remarks:

- ERP(dBm) = Raw Value(dBuV) + Correction Factor(dB/m)
- Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + 20log(D) – 104.8 – 2.15
- Margin value = ERP – Limit value
- The other ERP levels were very low against the limit of frequency range 30 MHz ~ 1 GHz.
- The frequency range 9 kHz ~ 30 MHz: all emissions are more than 20 dB below the limit, therefore do not be recorded in this report.

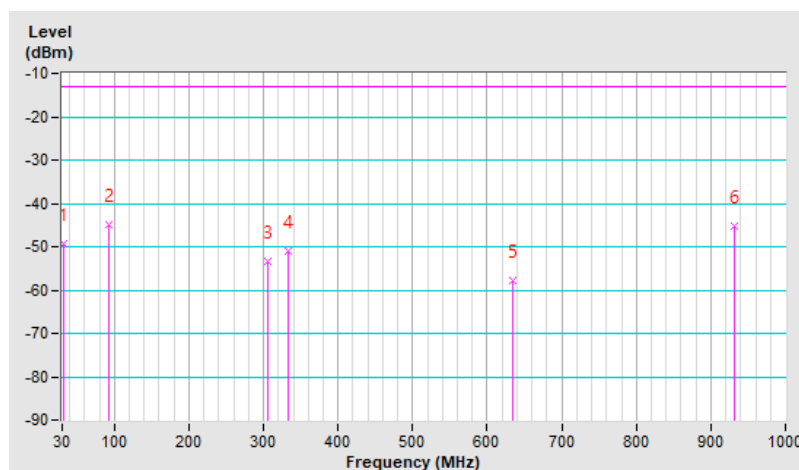


|                        |                                                              |                                          |                      |
|------------------------|--------------------------------------------------------------|------------------------------------------|----------------------|
| <b>RF Mode</b>         | LTE Band 26 (824 MHz ~ 849 MHz)<br>Channel Bandwidth: 1.4MHz | <b>Channel</b>                           | CH 26915 : 836.5 MHz |
| <b>Frequency Range</b> | 30 MHz ~ 1 GHz                                               | <b>Detector Function &amp; Bandwidth</b> | 1 MHz/3 MHz (RMS)    |
| <b>Input Power</b>     | 120 Vac, 60 Hz                                               | <b>Environmental Conditions</b>          | 22 °C, 68 % RH       |
| <b>Tested By</b>       | Greg Lin                                                     |                                          |                      |

| Antenna Polarity & Test Distance : Vertical at 3 m |                 |           |             |             |                    |                      |                  |                          |
|----------------------------------------------------|-----------------|-----------|-------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No                                                 | Frequency (MHz) | ERP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                  | 32.81           | -49.46    | -13.00      | -36.46      | 1.50 V             | 338                  | 58.49            | -107.95                  |
| 2                                                  | 93.26           | -45.03    | -13.00      | -32.03      | 1.25 V             | 229                  | 66.60            | -111.63                  |
| 3                                                  | 305.54          | -53.36    | -13.00      | -40.36      | 1.00 V             | 184                  | 51.14            | -104.50                  |
| 4                                                  | 332.25          | -50.86    | -13.00      | -37.86      | 1.50 V             | 275                  | 53.13            | -103.99                  |
| 5                                                  | 634.49          | -57.83    | -13.00      | -44.83      | 2.00 V             | 54                   | 39.86            | -97.69                   |
| 6                                                  | 932.52          | -45.22    | -13.00      | -32.22      | 1.00 V             | 308                  | 46.74            | -91.96                   |

#### Remarks:

- ERP(dBm) = Raw Value(dBuV) + Correction Factor(dB/m)
- Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)  
+ 20log(D) – 104.8 – 2.15
- Margin value = ERP – Limit value
- The other ERP levels were very low against the limit of frequency range 30 MHz ~ 1 GHz.
- The frequency range 9 kHz ~ 30 MHz: all emissions are more than 20 dB below the limit, therefore do not be recorded in this report.



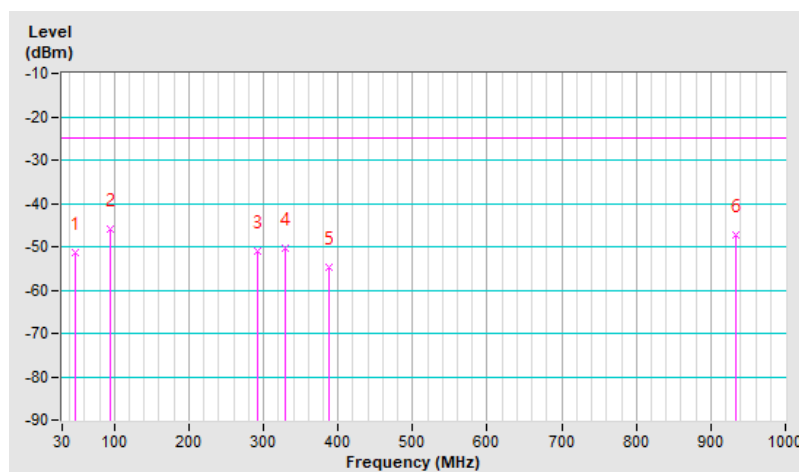
### 7.6.9 LTE Band 38

|                        |                                        |                                          |                       |
|------------------------|----------------------------------------|------------------------------------------|-----------------------|
| <b>RF Mode</b>         | LTE Band 38<br>Channel Bandwidth: 5MHz | <b>Channel</b>                           | CH 37775 : 2572.5 MHz |
| <b>Frequency Range</b> | 30 MHz ~ 1 GHz                         | <b>Detector Function &amp; Bandwidth</b> | 1 MHz/3 MHz (RMS)     |
| <b>Input Power</b>     | 120 Vac, 60 Hz                         | <b>Environmental Conditions</b>          | 22 °C, 68 % RH        |
| <b>Tested By</b>       | Greg Lin                               |                                          |                       |

| Antenna Polarity & Test Distance : Horizontal at 3 m |                 |            |             |             |                    |                      |                  |                          |
|------------------------------------------------------|-----------------|------------|-------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No                                                   | Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | 48.28           | -51.49     | -25.00      | -26.49      | 1.50 H             | 69                   | 52.65            | -104.14                  |
| 2                                                    | 94.67           | -45.93     | -25.00      | -20.93      | 1.25 H             | 288                  | 63.44            | -109.37                  |
| 3                                                    | 291.48          | -50.88     | -25.00      | -25.88      | 1.00 H             | 288                  | 51.86            | -102.74                  |
| 4                                                    | 329.43          | -50.50     | -25.00      | -25.50      | 1.50 H             | 286                  | 51.34            | -101.84                  |
| 5                                                    | 388.48          | -54.74     | -25.00      | -29.74      | 1.25 H             | 161                  | 46.15            | -100.89                  |
| 6                                                    | 933.93          | -47.40     | -25.00      | -22.40      | 2.00 H             | 18                   | 42.41            | -89.81                   |

#### Remarks:

1.  $EIRP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2.  $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8$
3.  $Margin\ value = EIRP - Limit\ value$
4. The other EIRP levels were very low against the limit of frequency range 30 MHz ~ 1 GHz.
5. The frequency range 9 kHz ~ 30 MHz: all emissions are more than 20 dB below the limit, therefore do not be recorded in this report.



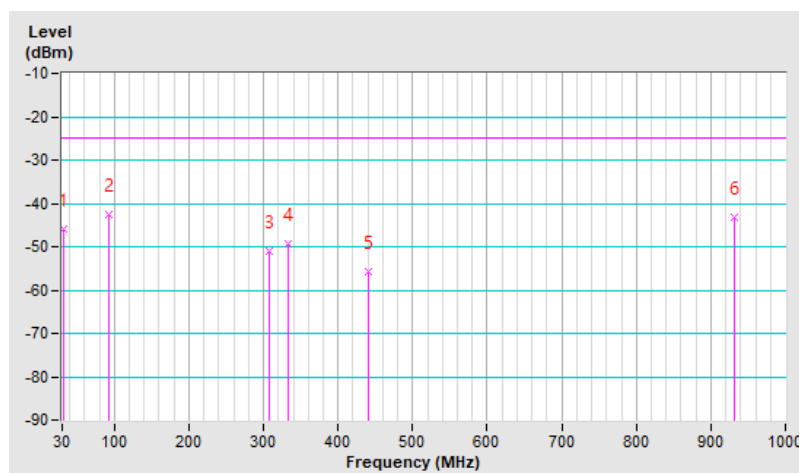


|                        |                                        |                                          |                       |
|------------------------|----------------------------------------|------------------------------------------|-----------------------|
| <b>RF Mode</b>         | LTE Band 38<br>Channel Bandwidth: 5MHz | <b>Channel</b>                           | CH 37775 : 2572.5 MHz |
| <b>Frequency Range</b> | 30 MHz ~ 1 GHz                         | <b>Detector Function &amp; Bandwidth</b> | 1 MHz/3 MHz (RMS)     |
| <b>Input Power</b>     | 120 Vac, 60 Hz                         | <b>Environmental Conditions</b>          | 22 °C, 68 % RH        |
| <b>Tested By</b>       | Greg Lin                               |                                          |                       |

| Antenna Polarity & Test Distance : Vertical at 3 m |                 |            |             |             |                    |                      |                  |                          |
|----------------------------------------------------|-----------------|------------|-------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No                                                 | Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                  | 31.41           | -46.07     | -25.00      | -21.07      | 1.50 V             | 20                   | 59.89            | -105.96                  |
| 2                                                  | 91.86           | -42.43     | -25.00      | -17.43      | 1.25 V             | 217                  | 67.13            | -109.56                  |
| 3                                                  | 306.94          | -50.97     | -25.00      | -25.97      | 1.00 V             | 219                  | 51.34            | -102.31                  |
| 4                                                  | 332.25          | -49.32     | -25.00      | -24.32      | 1.50 V             | 294                  | 52.52            | -101.84                  |
| 5                                                  | 440.49          | -55.91     | -25.00      | -30.91      | 1.00 V             | 319                  | 43.89            | -99.80                   |
| 6                                                  | 932.52          | -43.27     | -25.00      | -18.27      | 1.25 V             | 98                   | 46.54            | -89.81                   |

#### Remarks:

1.  $EIRP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2.  $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8$
3.  $Margin\ value = EIRP - Limit\ value$
4. The other EIRP levels were very low against the limit of frequency range 30 MHz ~ 1 GHz.
5. The frequency range 9 kHz ~ 30 MHz: all emissions are more than 20 dB below the limit, therefore do not be recorded in this report.



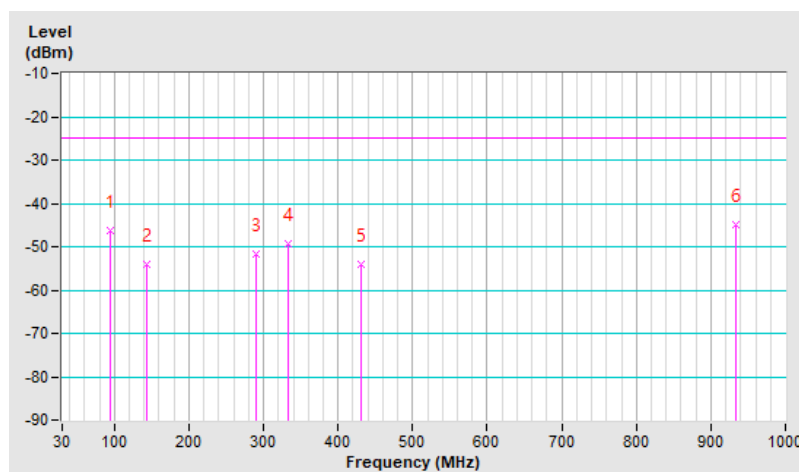
### 7.6.10 LTE Band 41

|                        |                                        |                                          |                       |
|------------------------|----------------------------------------|------------------------------------------|-----------------------|
| <b>RF Mode</b>         | LTE Band 41<br>Channel Bandwidth: 5MHz | <b>Channel</b>                           | CH 41565 : 2687.5 MHz |
| <b>Frequency Range</b> | 30 MHz ~ 1 GHz                         | <b>Detector Function &amp; Bandwidth</b> | 1 MHz/3 MHz (RMS)     |
| <b>Input Power</b>     | 120 Vac, 60 Hz                         | <b>Environmental Conditions</b>          | 22 °C, 68 % RH        |
| <b>Tested By</b>       | Greg Lin                               |                                          |                       |

| Antenna Polarity & Test Distance : Horizontal at 3 m |                 |            |             |             |                    |                      |                  |                          |
|------------------------------------------------------|-----------------|------------|-------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No                                                   | Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | 94.67           | -46.18     | -25.00      | -21.18      | 1.25 H             | 301                  | 63.19            | -109.37                  |
| 2                                                    | 142.46          | -54.08     | -25.00      | -29.08      | 1.00 H             | 267                  | 50.11            | -104.19                  |
| 3                                                    | 290.07          | -51.84     | -25.00      | -26.84      | 1.00 H             | 268                  | 50.93            | -102.77                  |
| 4                                                    | 333.65          | -49.46     | -25.00      | -24.46      | 1.50 H             | 295                  | 52.38            | -101.84                  |
| 5                                                    | 430.65          | -54.19     | -25.00      | -29.19      | 1.00 H             | 165                  | 45.83            | -100.02                  |
| 6                                                    | 933.93          | -44.80     | -25.00      | -19.80      | 1.50 H             | 164                  | 45.01            | -89.81                   |

#### Remarks:

1.  $EIRP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2.  $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8$
3.  $Margin\ value = EIRP - Limit\ value$
4. The other EIRP levels were very low against the limit of frequency range 30 MHz ~ 1 GHz.
5. The frequency range 9 kHz ~ 30 MHz: all emissions are more than 20 dB below the limit, therefore do not be recorded in this report.

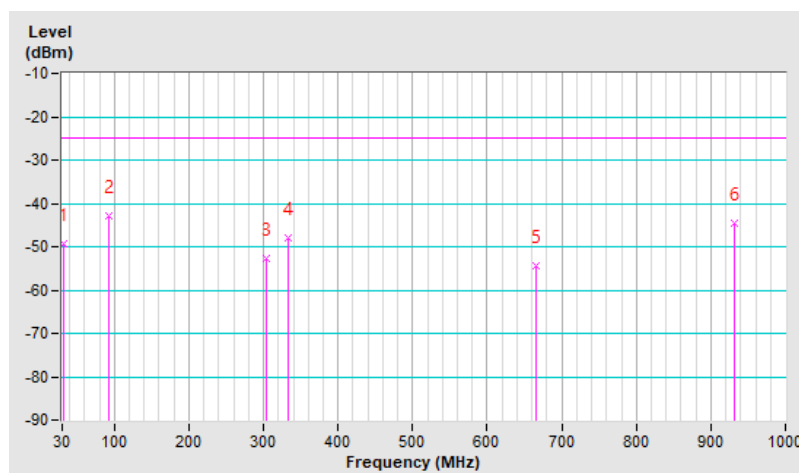


|                        |                                        |                                          |                       |
|------------------------|----------------------------------------|------------------------------------------|-----------------------|
| <b>RF Mode</b>         | LTE Band 41<br>Channel Bandwidth: 5MHz | <b>Channel</b>                           | CH 41565 : 2687.5 MHz |
| <b>Frequency Range</b> | 30 MHz ~ 1 GHz                         | <b>Detector Function &amp; Bandwidth</b> | 1 MHz/3 MHz (RMS)     |
| <b>Input Power</b>     | 120 Vac, 60 Hz                         | <b>Environmental Conditions</b>          | 22 °C, 68 % RH        |
| <b>Tested By</b>       | Greg Lin                               |                                          |                       |

| Antenna Polarity & Test Distance : Vertical at 3 m |                 |            |             |             |                    |                      |                  |                          |
|----------------------------------------------------|-----------------|------------|-------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No                                                 | Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                  | 32.81           | -49.36     | -25.00      | -24.36      | 1.50 V             | 187                  | 56.44            | -105.80                  |
| 2                                                  | 91.86           | -42.98     | -25.00      | -17.98      | 1.25 V             | 231                  | 66.58            | -109.56                  |
| 3                                                  | 304.13          | -52.67     | -25.00      | -27.67      | 1.50 V             | 135                  | 49.72            | -102.39                  |
| 4                                                  | 332.25          | -47.94     | -25.00      | -22.94      | 1.25 V             | 279                  | 53.90            | -101.84                  |
| 5                                                  | 665.42          | -54.33     | -25.00      | -29.33      | 1.00 V             | 313                  | 40.91            | -95.24                   |
| 6                                                  | 932.52          | -44.60     | -25.00      | -19.60      | 1.25 V             | 198                  | 45.21            | -89.81                   |

#### Remarks:

1.  $EIRP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2.  $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8$
3.  $Margin\ value = EIRP - Limit\ value$
4. The other EIRP levels were very low against the limit of frequency range 30 MHz ~ 1 GHz.
5. The frequency range 9 kHz ~ 30 MHz: all emissions are more than 20 dB below the limit, therefore do not be recorded in this report.



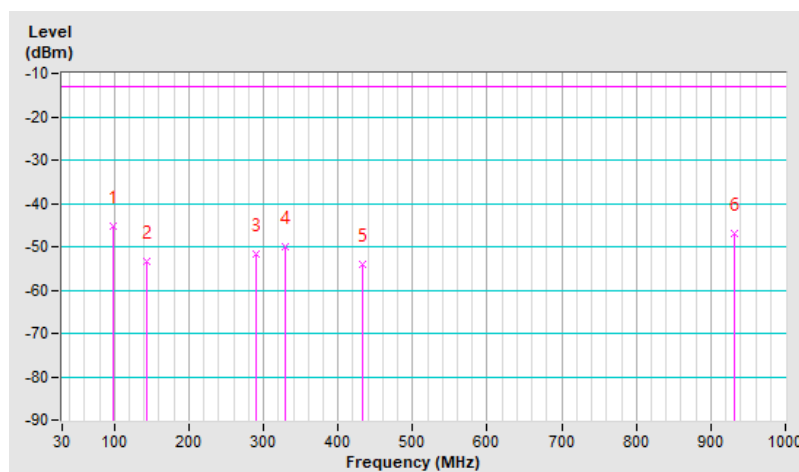
## 7.6.11 LTE Band 42

|                        |                                        |                                          |                       |
|------------------------|----------------------------------------|------------------------------------------|-----------------------|
| <b>RF Mode</b>         | LTE Band 42<br>Channel Bandwidth: 5MHz | <b>Channel</b>                           | CH 43065 : 3547.5 MHz |
| <b>Frequency Range</b> | 30 MHz ~ 1 GHz                         | <b>Detector Function &amp; Bandwidth</b> | 1 MHz/3 MHz (RMS)     |
| <b>Input Power</b>     | 120 Vac, 60 Hz                         | <b>Environmental Conditions</b>          | 22 °C, 68 % RH        |
| <b>Tested By</b>       | Greg Lin                               |                                          |                       |

| Antenna Polarity & Test Distance : Horizontal at 3 m |                 |            |             |             |                    |                      |                  |                          |
|------------------------------------------------------|-----------------|------------|-------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No                                                   | Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | 97.48           | -45.30     | -13.00      | -32.30      | 1.50 H             | 279                  | 63.78            | -109.08                  |
| 2                                                    | 143.87          | -53.39     | -13.00      | -40.39      | 1.25 H             | 279                  | 50.78            | -104.17                  |
| 3                                                    | 290.07          | -51.76     | -13.00      | -38.76      | 1.00 H             | 296                  | 51.01            | -102.77                  |
| 4                                                    | 329.43          | -50.11     | -13.00      | -37.11      | 1.50 H             | 277                  | 51.73            | -101.84                  |
| 5                                                    | 432.06          | -54.06     | -13.00      | -41.06      | 1.00 H             | 152                  | 45.91            | -99.97                   |
| 6                                                    | 932.52          | -46.90     | -13.00      | -33.90      | 1.25 H             | 328                  | 42.91            | -89.81                   |

## Remarks:

1.  $EIRP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2.  $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8$
3.  $Margin\ value = EIRP - Limit\ value$
4. The other EIRP levels were very low against the limit of frequency range 30 MHz ~ 1 GHz.
5. The frequency range 9 kHz ~ 30 MHz: all emissions are more than 20 dB below the limit, therefore do not be recorded in this report.

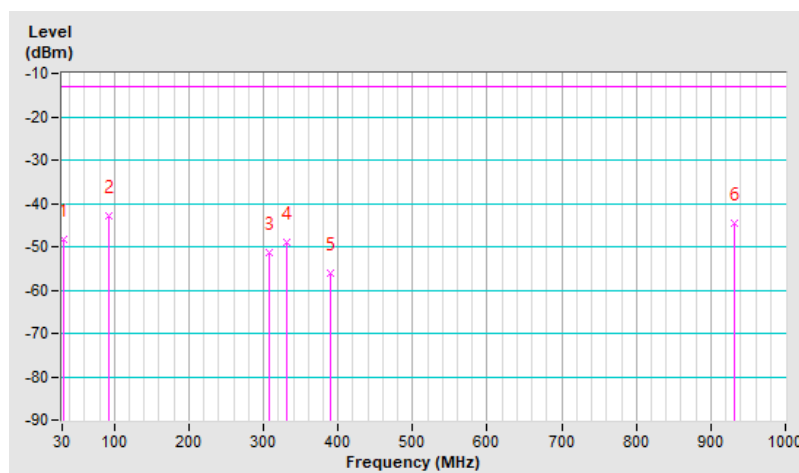


|                        |                                        |                                          |                       |
|------------------------|----------------------------------------|------------------------------------------|-----------------------|
| <b>RF Mode</b>         | LTE Band 42<br>Channel Bandwidth: 5MHz | <b>Channel</b>                           | CH 43065 : 3547.5 MHz |
| <b>Frequency Range</b> | 30 MHz ~ 1 GHz                         | <b>Detector Function &amp; Bandwidth</b> | 1 MHz/3 MHz (RMS)     |
| <b>Input Power</b>     | 120 Vac, 60 Hz                         | <b>Environmental Conditions</b>          | 22 °C, 68 % RH        |
| <b>Tested By</b>       | Greg Lin                               |                                          |                       |

| Antenna Polarity & Test Distance : Vertical at 3 m |                 |            |             |             |                    |                      |                  |                          |
|----------------------------------------------------|-----------------|------------|-------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No                                                 | Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                  | 31.41           | -48.17     | -13.00      | -35.17      | 1.25 V             | 112                  | 57.79            | -105.96                  |
| 2                                                  | 93.26           | -42.88     | -13.00      | -29.88      | 1.25 V             | 196                  | 66.60            | -109.48                  |
| 3                                                  | 306.94          | -51.30     | -13.00      | -38.30      | 1.00 V             | 180                  | 51.01            | -102.31                  |
| 4                                                  | 330.84          | -49.05     | -13.00      | -36.05      | 1.00 V             | 290                  | 52.79            | -101.84                  |
| 5                                                  | 389.88          | -56.27     | -13.00      | -43.27      | 2.00 V             | 234                  | 44.60            | -100.87                  |
| 6                                                  | 932.52          | -44.58     | -13.00      | -31.58      | 1.50 V             | 264                  | 45.23            | -89.81                   |

#### Remarks:

1. EIRP(dBm) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + 20log(D) – 104.8
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit of frequency range 30 MHz ~ 1 GHz.
5. The frequency range 9 kHz ~ 30 MHz: all emissions are more than 20 dB below the limit, therefore do not be recorded in this report.



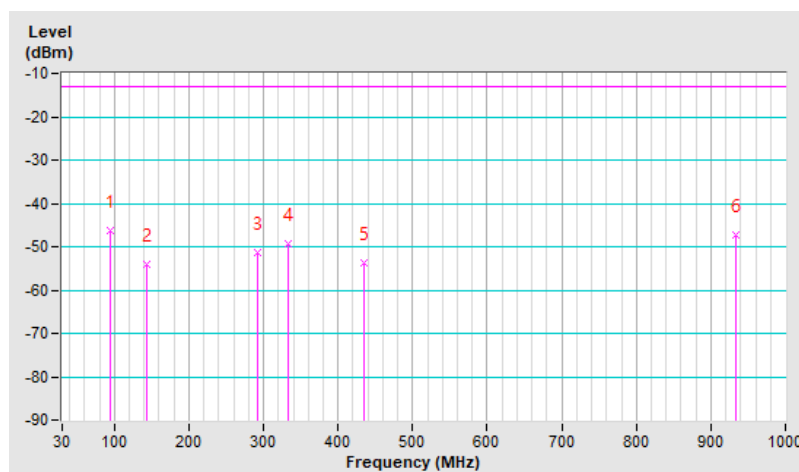
## 7.6.12 LTE Band 66

|                        |                                          |                                          |                        |
|------------------------|------------------------------------------|------------------------------------------|------------------------|
| <b>RF Mode</b>         | LTE Band 66<br>Channel Bandwidth: 1.4MHz | <b>Channel</b>                           | CH 132665 : 1779.3 MHz |
| <b>Frequency Range</b> | 30 MHz ~ 1 GHz                           | <b>Detector Function &amp; Bandwidth</b> | 1 MHz/3 MHz (RMS)      |
| <b>Input Power</b>     | 120 Vac, 60 Hz                           | <b>Environmental Conditions</b>          | 22 °C, 68 % RH         |
| <b>Tested By</b>       | Greg Lin                                 |                                          |                        |

| Antenna Polarity & Test Distance : Horizontal at 3 m |                 |            |             |             |                    |                      |                  |                          |
|------------------------------------------------------|-----------------|------------|-------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No                                                   | Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | 94.67           | -46.12     | -13.00      | -33.12      | 1.50 H             | 286                  | 63.25            | -109.37                  |
| 2                                                    | 143.87          | -54.04     | -13.00      | -41.04      | 1.25 H             | 252                  | 50.13            | -104.17                  |
| 3                                                    | 292.88          | -51.46     | -13.00      | -38.46      | 1.00 H             | 289                  | 51.25            | -102.71                  |
| 4                                                    | 332.25          | -49.22     | -13.00      | -36.22      | 1.25 H             | 280                  | 52.62            | -101.84                  |
| 5                                                    | 434.87          | -53.60     | -13.00      | -40.60      | 2.00 H             | 160                  | 46.30            | -99.90                   |
| 6                                                    | 933.93          | -47.39     | -13.00      | -34.39      | 1.00 H             | 57                   | 42.42            | -89.81                   |

## Remarks:

1.  $EIRP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2.  $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8$
3.  $Margin\ value = EIRP - Limit\ value$
4. The other EIRP levels were very low against the limit of frequency range 30 MHz ~ 1 GHz.
5. The frequency range 9 kHz ~ 30 MHz: all emissions are more than 20 dB below the limit, therefore do not be recorded in this report.

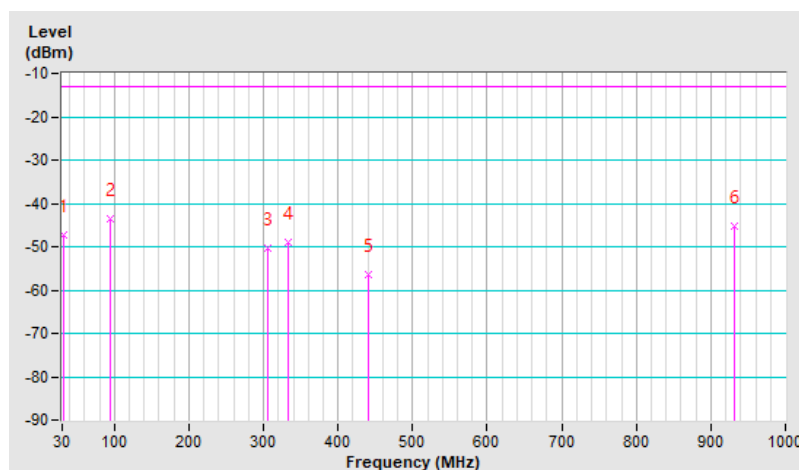


|                        |                                          |                                          |                        |
|------------------------|------------------------------------------|------------------------------------------|------------------------|
| <b>RF Mode</b>         | LTE Band 66<br>Channel Bandwidth: 1.4MHz | <b>Channel</b>                           | CH 132665 : 1779.3 MHz |
| <b>Frequency Range</b> | 30 MHz ~ 1 GHz                           | <b>Detector Function &amp; Bandwidth</b> | 1 MHz/3 MHz (RMS)      |
| <b>Input Power</b>     | 120 Vac, 60 Hz                           | <b>Environmental Conditions</b>          | 22 °C, 68 % RH         |
| <b>Tested By</b>       | Greg Lin                                 |                                          |                        |

| Antenna Polarity & Test Distance : Vertical at 3 m |                 |            |             |             |                    |                      |                  |                          |
|----------------------------------------------------|-----------------|------------|-------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No                                                 | Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                  | 32.81           | -47.38     | -13.00      | -34.38      | 1.00 V             | 70                   | 58.42            | -105.80                  |
| 2                                                  | 94.67           | -43.56     | -13.00      | -30.56      | 1.50 V             | 233                  | 65.81            | -109.37                  |
| 3                                                  | 305.54          | -50.31     | -13.00      | -37.31      | 1.25 V             | 289                  | 52.04            | -102.35                  |
| 4                                                  | 333.65          | -49.04     | -13.00      | -36.04      | 1.00 V             | 277                  | 52.80            | -101.84                  |
| 5                                                  | 440.49          | -56.40     | -13.00      | -43.40      | 2.00 V             | 6                    | 43.40            | -99.80                   |
| 6                                                  | 932.52          | -45.38     | -13.00      | -32.38      | 1.00 V             | 81                   | 44.43            | -89.81                   |

#### Remarks:

1.  $EIRP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2.  $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8$
3.  $Margin\ value = EIRP - Limit\ value$
4. The other EIRP levels were very low against the limit of frequency range 30 MHz ~ 1 GHz.
5. The frequency range 9 kHz ~ 30 MHz: all emissions are more than 20 dB below the limit, therefore do not be recorded in this report.



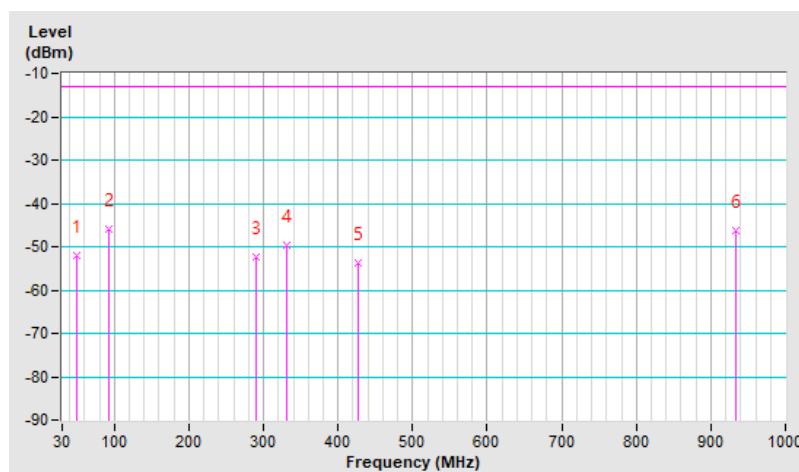
## 7.6.13 LTE Band 71

|                        |                                         |                                          |                     |
|------------------------|-----------------------------------------|------------------------------------------|---------------------|
| <b>RF Mode</b>         | LTE Band 71<br>Channel Bandwidth: 20MHz | <b>Channel</b>                           | CH 133372 : 688 MHz |
| <b>Frequency Range</b> | 30 MHz ~ 1 GHz                          | <b>Detector Function &amp; Bandwidth</b> | 1 MHz/3 MHz (RMS)   |
| <b>Input Power</b>     | 120 Vac, 60 Hz                          | <b>Environmental Conditions</b>          | 22 °C, 68 % RH      |
| <b>Tested By</b>       | Greg Lin                                |                                          |                     |

| Antenna Polarity & Test Distance : Horizontal at 3 m |                 |           |             |             |                    |                      |                  |                          |
|------------------------------------------------------|-----------------|-----------|-------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No                                                   | Frequency (MHz) | ERP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | 49.68           | -52.17    | -13.00      | -39.17      | 1.00 H             | 156                  | 51.96            | -104.13                  |
| 2                                                    | 91.86           | -45.96    | -13.00      | -32.96      | 1.25 H             | 276                  | 63.60            | -109.56                  |
| 3                                                    | 290.07          | -52.24    | -13.00      | -39.24      | 1.50 H             | 291                  | 50.53            | -102.77                  |
| 4                                                    | 330.84          | -49.74    | -13.00      | -36.74      | 1.25 H             | 298                  | 52.10            | -101.84                  |
| 5                                                    | 427.84          | -53.80    | -13.00      | -40.80      | 1.00 H             | 165                  | 46.31            | -100.11                  |
| 6                                                    | 933.93          | -46.31    | -13.00      | -33.31      | 1.50 H             | 262                  | 43.50            | -89.81                   |

## Remarks:

- ERP(dBm) = Raw Value(dBuV) + Correction Factor(dB/m)
- Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + 20log(D) – 104.8 – 2.15
- Margin value = ERP – Limit value
- The other ERP levels were very low against the limit of frequency range 30 MHz ~ 1 GHz.
- The frequency range 9 kHz ~ 30 MHz: all emissions are more than 20 dB below the limit, therefore do not be recorded in this report.



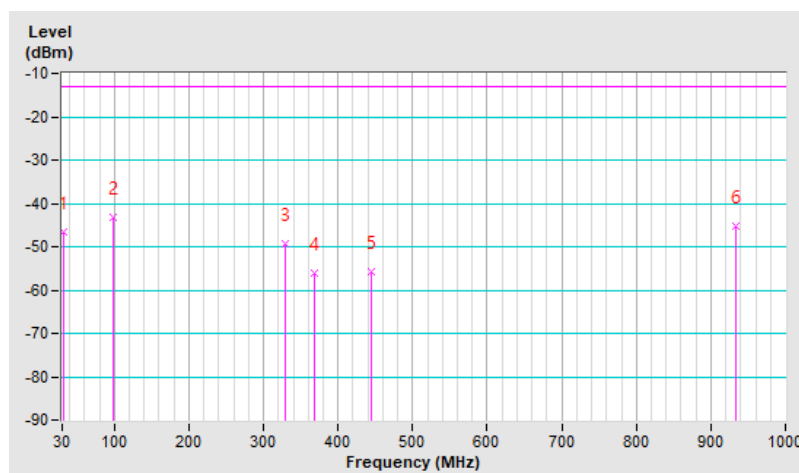


|                        |                                         |                                          |                     |
|------------------------|-----------------------------------------|------------------------------------------|---------------------|
| <b>RF Mode</b>         | LTE Band 71<br>Channel Bandwidth: 20MHz | <b>Channel</b>                           | CH 133372 : 688 MHz |
| <b>Frequency Range</b> | 30 MHz ~ 1 GHz                          | <b>Detector Function &amp; Bandwidth</b> | 1 MHz/3 MHz (RMS)   |
| <b>Input Power</b>     | 120 Vac, 60 Hz                          | <b>Environmental Conditions</b>          | 22 °C, 68 % RH      |
| <b>Tested By</b>       | Greg Lin                                |                                          |                     |

| Antenna Polarity & Test Distance : Vertical at 3 m |                 |           |             |             |                    |                      |                  |                          |
|----------------------------------------------------|-----------------|-----------|-------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No                                                 | Frequency (MHz) | ERP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                  | 32.81           | -46.53    | -13.00      | -33.53      | 1.50 V             | 238                  | 59.27            | -105.80                  |
| 2                                                  | 97.48           | -43.08    | -13.00      | -30.08      | 1.00 V             | 237                  | 66.00            | -109.08                  |
| 3                                                  | 329.43          | -49.38    | -13.00      | -36.38      | 1.25 V             | 276                  | 52.46            | -101.84                  |
| 4                                                  | 368.80          | -56.12    | -13.00      | -43.12      | 1.50 V             | 222                  | 45.10            | -101.22                  |
| 5                                                  | 444.71          | -55.80    | -13.00      | -42.80      | 1.00 V             | 339                  | 43.94            | -99.74                   |
| 6                                                  | 933.93          | -45.26    | -13.00      | -32.26      | 2.00 V             | 289                  | 44.55            | -89.81                   |

#### Remarks:

1.  $ERP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2.  $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8 - 2.15$
3.  $Margin\ value = ERP - Limit\ value$
4. The other ERP levels were very low against the limit of frequency range 30 MHz ~ 1 GHz.
5. The frequency range 9 kHz ~ 30 MHz: all emissions are more than 20 dB below the limit, therefore do not be recorded in this report.



## 7.7 Radiated Spurious Emissions above 1GHz

### 7.7.1 LTE Band 2

|                        |                                         |                                          |                       |
|------------------------|-----------------------------------------|------------------------------------------|-----------------------|
| <b>RF Mode</b>         | LTE Band 2<br>Channel Bandwidth: 1.4MHz | <b>Channel</b>                           | CH 18607 : 1850.7 MHz |
| <b>Frequency Range</b> | 1 GHz ~ 20 GHz                          | <b>Detector Function &amp; Bandwidth</b> | 1 MHz/3 MHz (RMS)     |
| <b>Input Power</b>     | 120 Vac, 60 Hz                          | <b>Environmental Conditions</b>          | 23 °C, 67 % RH        |
| <b>Tested By</b>       | Karl Lee                                |                                          |                       |

| Antenna Polarity & Test Distance : Horizontal at 3 m |                 |            |             |             |                    |                      |                  |                          |
|------------------------------------------------------|-----------------|------------|-------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No                                                   | Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | 3701.40         | -49.75     | -13.00      | -36.75      | 1.68 H             | 353                  | 45.74            | -95.49                   |
| Antenna Polarity & Test Distance : Vertical at 3 m   |                 |            |             |             |                    |                      |                  |                          |
| No                                                   | Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | 3701.40         | -49.82     | -13.00      | -36.82      | 1.32 V             | 104                  | 45.67            | -95.49                   |

#### Remarks:

1.  $EIRP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2.  $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8$
3.  $Margin\ value = EIRP - Limit\ value$
4. The other EIRP levels were very low against the limit.

|                        |                                         |                                          |                     |
|------------------------|-----------------------------------------|------------------------------------------|---------------------|
| <b>RF Mode</b>         | LTE Band 2<br>Channel Bandwidth: 1.4MHz | <b>Channel</b>                           | CH 18900 : 1880 MHz |
| <b>Frequency Range</b> | 1 GHz ~ 20 GHz                          | <b>Detector Function &amp; Bandwidth</b> | 1 MHz/3 MHz (RMS)   |
| <b>Input Power</b>     | 120 Vac, 60 Hz                          | <b>Environmental Conditions</b>          | 23 °C, 67 % RH      |
| <b>Tested By</b>       | Karl Lee                                |                                          |                     |

| Antenna Polarity & Test Distance : Horizontal at 3 m |                 |            |             |             |                    |                      |                  |                          |
|------------------------------------------------------|-----------------|------------|-------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No                                                   | Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | 3760.00         | -49.74     | -13.00      | -36.74      | 2.25 H             | 174                  | 45.37            | -95.11                   |
| Antenna Polarity & Test Distance : Vertical at 3 m   |                 |            |             |             |                    |                      |                  |                          |
| No                                                   | Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | 3760.00         | -49.09     | -13.00      | -36.09      | 1.28 V             | 49                   | 46.02            | -95.11                   |

**Remarks:**

1.  $EIRP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2.  $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8$
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit.

|                        |                                         |                                          |                       |
|------------------------|-----------------------------------------|------------------------------------------|-----------------------|
| <b>RF Mode</b>         | LTE Band 2<br>Channel Bandwidth: 1.4MHz | <b>Channel</b>                           | CH 19193 : 1909.3 MHz |
| <b>Frequency Range</b> | 1 GHz ~ 20 GHz                          | <b>Detector Function &amp; Bandwidth</b> | 1 MHz/3 MHz (RMS)     |
| <b>Input Power</b>     | 120 Vac, 60 Hz                          | <b>Environmental Conditions</b>          | 23 °C, 67 % RH        |
| <b>Tested By</b>       | Karl Lee                                |                                          |                       |

| Antenna Polarity & Test Distance : Horizontal at 3 m |                 |            |             |             |                    |                      |                  |                          |
|------------------------------------------------------|-----------------|------------|-------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No                                                   | Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | 3818.60         | -49.07     | -13.00      | -36.07      | 1.59 H             | 322                  | 45.84            | -94.91                   |
| Antenna Polarity & Test Distance : Vertical at 3 m   |                 |            |             |             |                    |                      |                  |                          |
| No                                                   | Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | 3818.60         | -49.20     | -13.00      | -36.20      | 2.16 V             | 154                  | 45.71            | -94.91                   |

**Remarks:**

1.  $EIRP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2.  $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8$
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit.

|                        |                                       |                                          |                       |
|------------------------|---------------------------------------|------------------------------------------|-----------------------|
| <b>RF Mode</b>         | LTE Band 2<br>Channel Bandwidth: 5MHz | <b>Channel</b>                           | CH 18625 : 1852.5 MHz |
| <b>Frequency Range</b> | 1 GHz ~ 20 GHz                        | <b>Detector Function &amp; Bandwidth</b> | 1 MHz/3 MHz (RMS)     |
| <b>Input Power</b>     | 120 Vac, 60 Hz                        | <b>Environmental Conditions</b>          | 23 °C, 67 % RH        |
| <b>Tested By</b>       | Karl Lee                              |                                          |                       |

| Antenna Polarity & Test Distance : Horizontal at 3 m |                 |            |             |             |                    |                      |                  |                          |
|------------------------------------------------------|-----------------|------------|-------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No                                                   | Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | 3705.00         | -49.56     | -13.00      | -36.56      | 1.33 H             | 268                  | 45.91            | -95.47                   |
| Antenna Polarity & Test Distance : Vertical at 3 m   |                 |            |             |             |                    |                      |                  |                          |
| No                                                   | Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | 3705.00         | -50.20     | -13.00      | -37.20      | 2.93 V             | 115                  | 45.27            | -95.47                   |

**Remarks:**

1.  $EIRP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2.  $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8$
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit.

|                        |                                       |                                          |                     |
|------------------------|---------------------------------------|------------------------------------------|---------------------|
| <b>RF Mode</b>         | LTE Band 2<br>Channel Bandwidth: 5MHz | <b>Channel</b>                           | CH 18900 : 1880 MHz |
| <b>Frequency Range</b> | 1 GHz ~ 20 GHz                        | <b>Detector Function &amp; Bandwidth</b> | 1 MHz/3 MHz (RMS)   |
| <b>Input Power</b>     | 120 Vac, 60 Hz                        | <b>Environmental Conditions</b>          | 23 °C, 67 % RH      |
| <b>Tested By</b>       | Karl Lee                              |                                          |                     |

| Antenna Polarity & Test Distance : Horizontal at 3 m |                 |            |             |             |                    |                      |                  |                          |
|------------------------------------------------------|-----------------|------------|-------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No                                                   | Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | 3760.00         | -49.27     | -13.00      | -36.27      | 2.25 H             | 148                  | 45.84            | -95.11                   |
| Antenna Polarity & Test Distance : Vertical at 3 m   |                 |            |             |             |                    |                      |                  |                          |
| No                                                   | Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | 3760.00         | -49.92     | -13.00      | -36.92      | 1.37 V             | 34                   | 45.19            | -95.11                   |

**Remarks:**

1.  $EIRP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2.  $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8$
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit.

|                        |                                       |                                          |                       |
|------------------------|---------------------------------------|------------------------------------------|-----------------------|
| <b>RF Mode</b>         | LTE Band 2<br>Channel Bandwidth: 5MHz | <b>Channel</b>                           | CH 19175 : 1907.5 MHz |
| <b>Frequency Range</b> | 1 GHz ~ 20 GHz                        | <b>Detector Function &amp; Bandwidth</b> | 1 MHz/3 MHz (RMS)     |
| <b>Input Power</b>     | 120 Vac, 60 Hz                        | <b>Environmental Conditions</b>          | 23 °C, 67 % RH        |
| <b>Tested By</b>       | Karl Lee                              |                                          |                       |

| Antenna Polarity & Test Distance : Horizontal at 3 m |                 |            |             |             |                    |                      |                  |                          |
|------------------------------------------------------|-----------------|------------|-------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No                                                   | Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | 3815.00         | -49.15     | -13.00      | -36.15      | 2.36 H             | 105                  | 45.78            | -94.93                   |
| Antenna Polarity & Test Distance : Vertical at 3 m   |                 |            |             |             |                    |                      |                  |                          |
| No                                                   | Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | 3815.00         | -48.72     | -13.00      | -35.72      | 1.89 V             | 140                  | 46.21            | -94.93                   |

**Remarks:**

1.  $EIRP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2.  $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8$
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit.

|                        |                                        |                                          |                     |
|------------------------|----------------------------------------|------------------------------------------|---------------------|
| <b>RF Mode</b>         | LTE Band 2<br>Channel Bandwidth: 20MHz | <b>Channel</b>                           | CH 18700 : 1860 MHz |
| <b>Frequency Range</b> | 1 GHz ~ 20 GHz                         | <b>Detector Function &amp; Bandwidth</b> | 1 MHz/3 MHz (RMS)   |
| <b>Input Power</b>     | 120 Vac, 60 Hz                         | <b>Environmental Conditions</b>          | 23 °C, 67 % RH      |
| <b>Tested By</b>       | Karl Lee                               |                                          |                     |

| Antenna Polarity & Test Distance : Horizontal at 3 m |                 |            |             |             |                    |                      |                  |                          |
|------------------------------------------------------|-----------------|------------|-------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No                                                   | Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | 3720.00         | -49.18     | -13.00      | -36.18      | 2.01 H             | 283                  | 46.18            | -95.36                   |
| Antenna Polarity & Test Distance : Vertical at 3 m   |                 |            |             |             |                    |                      |                  |                          |
| No                                                   | Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | 3720.00         | -49.98     | -13.00      | -36.98      | 1.54 V             | 215                  | 45.38            | -95.36                   |

**Remarks:**

1.  $EIRP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2.  $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8$
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit.



|                        |                                        |                                          |                     |
|------------------------|----------------------------------------|------------------------------------------|---------------------|
| <b>RF Mode</b>         | LTE Band 2<br>Channel Bandwidth: 20MHz | <b>Channel</b>                           | CH 18900 : 1880 MHz |
| <b>Frequency Range</b> | 1 GHz ~ 20 GHz                         | <b>Detector Function &amp; Bandwidth</b> | 1 MHz/3 MHz (RMS)   |
| <b>Input Power</b>     | 120 Vac, 60 Hz                         | <b>Environmental Conditions</b>          | 23 °C, 67 % RH      |
| <b>Tested By</b>       | Karl Lee                               |                                          |                     |

| Antenna Polarity & Test Distance : Horizontal at 3 m |                 |            |             |             |                    |                      |                  |                          |
|------------------------------------------------------|-----------------|------------|-------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No                                                   | Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | 3760.00         | -50.13     | -13.00      | -37.13      | 1.63 H             | 288                  | 44.98            | -95.11                   |
| Antenna Polarity & Test Distance : Vertical at 3 m   |                 |            |             |             |                    |                      |                  |                          |
| No                                                   | Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | 3760.00         | -49.59     | -13.00      | -36.59      | 1.36 V             | 293                  | 45.52            | -95.11                   |

**Remarks:**

1.  $EIRP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2.  $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8$
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit.

|                        |                                        |                                          |                     |
|------------------------|----------------------------------------|------------------------------------------|---------------------|
| <b>RF Mode</b>         | LTE Band 2<br>Channel Bandwidth: 20MHz | <b>Channel</b>                           | CH 19100 : 1900 MHz |
| <b>Frequency Range</b> | 1 GHz ~ 20 GHz                         | <b>Detector Function &amp; Bandwidth</b> | 1 MHz/3 MHz (RMS)   |
| <b>Input Power</b>     | 120 Vac, 60 Hz                         | <b>Environmental Conditions</b>          | 23 °C, 67 % RH      |
| <b>Tested By</b>       | Karl Lee                               |                                          |                     |

| Antenna Polarity & Test Distance : Horizontal at 3 m |                 |            |             |             |                    |                      |                  |                          |
|------------------------------------------------------|-----------------|------------|-------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No                                                   | Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | 3800.00         | -49.88     | -13.00      | -36.88      | 2.71 H             | 121                  | 45.12            | -95.00                   |
| Antenna Polarity & Test Distance : Vertical at 3 m   |                 |            |             |             |                    |                      |                  |                          |
| No                                                   | Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | 3800.00         | -49.15     | -13.00      | -36.15      | 1.20 V             | 245                  | 45.85            | -95.00                   |

**Remarks:**

1.  $EIRP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2.  $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8$
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit.

### 7.7.2 LTE Band 4

|                        |                                         |                                          |                       |
|------------------------|-----------------------------------------|------------------------------------------|-----------------------|
| <b>RF Mode</b>         | LTE Band 4<br>Channel Bandwidth: 1.4MHz | <b>Channel</b>                           | CH 19957 : 1710.7 MHz |
| <b>Frequency Range</b> | 1 GHz ~ 18 GHz                          | <b>Detector Function &amp; Bandwidth</b> | 1 MHz/3 MHz (RMS)     |
| <b>Input Power</b>     | 120 Vac, 60 Hz                          | <b>Environmental Conditions</b>          | 23 °C, 67 % RH        |
| <b>Tested By</b>       | Karl Lee                                |                                          |                       |

| Antenna Polarity & Test Distance : Horizontal at 3 m |                 |            |             |             |                    |                      |                  |                          |
|------------------------------------------------------|-----------------|------------|-------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No                                                   | Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | 3421.40         | -51.04     | -13.00      | -38.04      | 1.23 H             | 202                  | 45.30            | -96.34                   |
| Antenna Polarity & Test Distance : Vertical at 3 m   |                 |            |             |             |                    |                      |                  |                          |
| No                                                   | Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | 3421.40         | -50.82     | -13.00      | -37.82      | 1.58 V             | 125                  | 45.52            | -96.34                   |

#### Remarks:

1.  $EIRP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2.  $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8$
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit.

|                        |                                         |                                          |                       |
|------------------------|-----------------------------------------|------------------------------------------|-----------------------|
| <b>RF Mode</b>         | LTE Band 4<br>Channel Bandwidth: 1.4MHz | <b>Channel</b>                           | CH 20175 : 1732.5 MHz |
| <b>Frequency Range</b> | 1 GHz ~ 18 GHz                          | <b>Detector Function &amp; Bandwidth</b> | 1 MHz/3 MHz (RMS)     |
| <b>Input Power</b>     | 120 Vac, 60 Hz                          | <b>Environmental Conditions</b>          | 23 °C, 67 % RH        |
| <b>Tested By</b>       | Karl Lee                                |                                          |                       |

| Antenna Polarity & Test Distance : Horizontal at 3 m |                 |            |             |             |                    |                      |                  |                          |
|------------------------------------------------------|-----------------|------------|-------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No                                                   | Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | 3465.00         | -51.14     | -13.00      | -38.14      | 2.54 H             | 118                  | 45.18            | -96.32                   |
| Antenna Polarity & Test Distance : Vertical at 3 m   |                 |            |             |             |                    |                      |                  |                          |
| No                                                   | Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | 3465.00         | -50.50     | -13.00      | -37.50      | 1.84 V             | 269                  | 45.82            | -96.32                   |

**Remarks:**

1.  $EIRP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2.  $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8$
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit.

|                        |                                         |                                          |                       |
|------------------------|-----------------------------------------|------------------------------------------|-----------------------|
| <b>RF Mode</b>         | LTE Band 4<br>Channel Bandwidth: 1.4MHz | <b>Channel</b>                           | CH 20393 : 1754.3 MHz |
| <b>Frequency Range</b> | 1 GHz ~ 18 GHz                          | <b>Detector Function &amp; Bandwidth</b> | 1 MHz/3 MHz (RMS)     |
| <b>Input Power</b>     | 120 Vac, 60 Hz                          | <b>Environmental Conditions</b>          | 23 °C, 67 % RH        |
| <b>Tested By</b>       | Karl Lee                                |                                          |                       |

| Antenna Polarity & Test Distance : Horizontal at 3 m |                 |            |             |             |                    |                      |                  |                          |
|------------------------------------------------------|-----------------|------------|-------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No                                                   | Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | 3508.60         | -50.67     | -13.00      | -37.67      | 1.77 H             | 120                  | 45.44            | -96.11                   |
| Antenna Polarity & Test Distance : Vertical at 3 m   |                 |            |             |             |                    |                      |                  |                          |
| No                                                   | Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | 3508.60         | -50.48     | -13.00      | -37.48      | 1.25 V             | 51                   | 45.63            | -96.11                   |

**Remarks:**

1.  $EIRP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2.  $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8$
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit.

|                        |                                       |                                          |                       |
|------------------------|---------------------------------------|------------------------------------------|-----------------------|
| <b>RF Mode</b>         | LTE Band 4<br>Channel Bandwidth: 5MHz | <b>Channel</b>                           | CH 19975 : 1712.5 MHz |
| <b>Frequency Range</b> | 1 GHz ~ 18 GHz                        | <b>Detector Function &amp; Bandwidth</b> | 1 MHz/3 MHz (RMS)     |
| <b>Input Power</b>     | 120 Vac, 60 Hz                        | <b>Environmental Conditions</b>          | 23 °C, 67 % RH        |
| <b>Tested By</b>       | Karl Lee                              |                                          |                       |

| Antenna Polarity & Test Distance : Horizontal at 3 m |                 |            |             |             |                    |                      |                  |                          |
|------------------------------------------------------|-----------------|------------|-------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No                                                   | Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | 3425.00         | -50.56     | -13.00      | -37.56      | 1.48 H             | 232                  | 45.78            | -96.34                   |
| Antenna Polarity & Test Distance : Vertical at 3 m   |                 |            |             |             |                    |                      |                  |                          |
| No                                                   | Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | 3425.00         | -51.05     | -13.00      | -38.05      | 1.32 V             | 175                  | 45.29            | -96.34                   |

**Remarks:**

1.  $EIRP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2.  $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8$
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit.

|                        |                                       |                                          |                       |
|------------------------|---------------------------------------|------------------------------------------|-----------------------|
| <b>RF Mode</b>         | LTE Band 4<br>Channel Bandwidth: 5MHz | <b>Channel</b>                           | CH 20175 : 1732.5 MHz |
| <b>Frequency Range</b> | 1 GHz ~ 18 GHz                        | <b>Detector Function &amp; Bandwidth</b> | 1 MHz/3 MHz (RMS)     |
| <b>Input Power</b>     | 120 Vac, 60 Hz                        | <b>Environmental Conditions</b>          | 23 °C, 67 % RH        |
| <b>Tested By</b>       | Karl Lee                              |                                          |                       |

| Antenna Polarity & Test Distance : Horizontal at 3 m |                 |            |             |             |                    |                      |                  |                          |
|------------------------------------------------------|-----------------|------------|-------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No                                                   | Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | 3465.00         | -50.11     | -13.00      | -37.11      | 1.26 H             | 267                  | 46.21            | -96.32                   |
| Antenna Polarity & Test Distance : Vertical at 3 m   |                 |            |             |             |                    |                      |                  |                          |
| No                                                   | Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | 3465.00         | -50.99     | -13.00      | -37.99      | 1.93 V             | 53                   | 45.33            | -96.32                   |

**Remarks:**

1.  $EIRP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2.  $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8$
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit.

|                        |                                       |                                          |                       |
|------------------------|---------------------------------------|------------------------------------------|-----------------------|
| <b>RF Mode</b>         | LTE Band 4<br>Channel Bandwidth: 5MHz | <b>Channel</b>                           | CH 20375 : 1752.5 MHz |
| <b>Frequency Range</b> | 1 GHz ~ 18 GHz                        | <b>Detector Function &amp; Bandwidth</b> | 1 MHz/3 MHz (RMS)     |
| <b>Input Power</b>     | 120 Vac, 60 Hz                        | <b>Environmental Conditions</b>          | 23 °C, 67 % RH        |
| <b>Tested By</b>       | Karl Lee                              |                                          |                       |

| Antenna Polarity & Test Distance : Horizontal at 3 m |                 |            |             |             |                    |                      |                  |                          |
|------------------------------------------------------|-----------------|------------|-------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No                                                   | Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | 3505.00         | -50.31     | -13.00      | -37.31      | 1.26 H             | 324                  | 45.82            | -96.13                   |
| Antenna Polarity & Test Distance : Vertical at 3 m   |                 |            |             |             |                    |                      |                  |                          |
| No                                                   | Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | 3505.00         | -50.84     | -13.00      | -37.84      | 2.34 V             | 105                  | 45.29            | -96.13                   |

**Remarks:**

1.  $EIRP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2.  $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8$
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit.



|                        |                                        |                                          |                     |
|------------------------|----------------------------------------|------------------------------------------|---------------------|
| <b>RF Mode</b>         | LTE Band 4<br>Channel Bandwidth: 20MHz | <b>Channel</b>                           | CH 20050 : 1720 MHz |
| <b>Frequency Range</b> | 1 GHz ~ 18 GHz                         | <b>Detector Function &amp; Bandwidth</b> | 1 MHz/3 MHz (RMS)   |
| <b>Input Power</b>     | 120 Vac, 60 Hz                         | <b>Environmental Conditions</b>          | 23 °C, 67 % RH      |
| <b>Tested By</b>       | Karl Lee                               |                                          |                     |

| Antenna Polarity & Test Distance : Horizontal at 3 m |                 |            |             |             |                    |                      |                  |                          |
|------------------------------------------------------|-----------------|------------|-------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No                                                   | Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | 3440.00         | -51.49     | -13.00      | -38.49      | 1.05 H             | 261                  | 44.89            | -96.38                   |
| Antenna Polarity & Test Distance : Vertical at 3 m   |                 |            |             |             |                    |                      |                  |                          |
| No                                                   | Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | 3440.00         | -50.39     | -13.00      | -37.39      | 2.85 V             | 104                  | 45.99            | -96.38                   |

**Remarks:**

1.  $EIRP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2.  $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8$
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit.

|                        |                                        |                                          |                       |
|------------------------|----------------------------------------|------------------------------------------|-----------------------|
| <b>RF Mode</b>         | LTE Band 4<br>Channel Bandwidth: 20MHz | <b>Channel</b>                           | CH 20175 : 1732.5 MHz |
| <b>Frequency Range</b> | 1 GHz ~ 18 GHz                         | <b>Detector Function &amp; Bandwidth</b> | 1 MHz/3 MHz (RMS)     |
| <b>Input Power</b>     | 120 Vac, 60 Hz                         | <b>Environmental Conditions</b>          | 23 °C, 67 % RH        |
| <b>Tested By</b>       | Karl Lee                               |                                          |                       |

| Antenna Polarity & Test Distance : Horizontal at 3 m |                 |            |             |             |                    |                      |                  |                          |
|------------------------------------------------------|-----------------|------------|-------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No                                                   | Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | 3465.00         | -50.47     | -13.00      | -37.47      | 1.29 H             | 26                   | 45.85            | -96.32                   |
| Antenna Polarity & Test Distance : Vertical at 3 m   |                 |            |             |             |                    |                      |                  |                          |
| No                                                   | Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | 3465.00         | -51.00     | -13.00      | -38.00      | 1.61 V             | 194                  | 45.32            | -96.32                   |

**Remarks:**

1.  $EIRP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2.  $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8$
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit.

|                        |                                        |                                          |                     |
|------------------------|----------------------------------------|------------------------------------------|---------------------|
| <b>RF Mode</b>         | LTE Band 4<br>Channel Bandwidth: 20MHz | <b>Channel</b>                           | CH 20300 : 1745 MHz |
| <b>Frequency Range</b> | 1 GHz ~ 18 GHz                         | <b>Detector Function &amp; Bandwidth</b> | 1 MHz/3 MHz (RMS)   |
| <b>Input Power</b>     | 120 Vac, 60 Hz                         | <b>Environmental Conditions</b>          | 23 °C, 67 % RH      |
| <b>Tested By</b>       | Karl Lee                               |                                          |                     |

| Antenna Polarity & Test Distance : Horizontal at 3 m |                 |            |             |             |                    |                      |                  |                          |
|------------------------------------------------------|-----------------|------------|-------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No                                                   | Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | 3490.00         | -50.98     | -13.00      | -37.98      | 1.88 H             | 250                  | 45.21            | -96.19                   |
| Antenna Polarity & Test Distance : Vertical at 3 m   |                 |            |             |             |                    |                      |                  |                          |
| No                                                   | Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | 3490.00         | -51.33     | -13.00      | -38.33      | 1.59 V             | 152                  | 44.86            | -96.19                   |

**Remarks:**

1.  $EIRP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2.  $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8$
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit.

### 7.7.3 LTE Band 5

|                        |                                         |                                          |                      |
|------------------------|-----------------------------------------|------------------------------------------|----------------------|
| <b>RF Mode</b>         | LTE Band 5<br>Channel Bandwidth: 1.4MHz | <b>Channel</b>                           | CH 20407 : 824.7 MHz |
| <b>Frequency Range</b> | 1 GHz ~ 18 GHz                          | <b>Detector Function &amp; Bandwidth</b> | 1 MHz/3 MHz (RMS)    |
| <b>Input Power</b>     | 120 Vac, 60 Hz                          | <b>Environmental Conditions</b>          | 23 °C, 67 % RH       |
| <b>Tested By</b>       | Karl Lee                                |                                          |                      |

| Antenna Polarity & Test Distance : Horizontal at 3 m |                 |           |             |             |                    |                      |                  |                          |
|------------------------------------------------------|-----------------|-----------|-------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No                                                   | Frequency (MHz) | ERP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | 1649.40         | -54.65    | -13.00      | -41.65      | 1.24 H             | 131                  | 49.20            | -103.85                  |
| 2                                                    | 2474.10         | -45.77    | -13.00      | -32.77      | 2.58 H             | 142                  | 55.20            | -100.97                  |
| Antenna Polarity & Test Distance : Vertical at 3 m   |                 |           |             |             |                    |                      |                  |                          |
| No                                                   | Frequency (MHz) | ERP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | 1649.40         | -54.38    | -13.00      | -41.38      | 2.25 V             | 107                  | 49.47            | -103.85                  |
| 2                                                    | 2474.10         | -38.38    | -13.00      | -25.38      | 2.95 V             | 124                  | 62.59            | -100.97                  |

#### Remarks:

1.  $ERP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2.  $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8 - 2.15$
3. Margin value = ERP – Limit value
4. The other ERP levels were very low against the limit.

|                        |                                         |                                          |                      |
|------------------------|-----------------------------------------|------------------------------------------|----------------------|
| <b>RF Mode</b>         | LTE Band 5<br>Channel Bandwidth: 1.4MHz | <b>Channel</b>                           | CH 20525 : 836.5 MHz |
| <b>Frequency Range</b> | 1 GHz ~ 18 GHz                          | <b>Detector Function &amp; Bandwidth</b> | 1 MHz/3 MHz (RMS)    |
| <b>Input Power</b>     | 120 Vac, 60 Hz                          | <b>Environmental Conditions</b>          | 23 °C, 67 % RH       |
| <b>Tested By</b>       | Karl Lee                                |                                          |                      |

| Antenna Polarity & Test Distance : Horizontal at 3 m |                 |           |             |             |                    |                      |                  |                          |
|------------------------------------------------------|-----------------|-----------|-------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No                                                   | Frequency (MHz) | ERP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | 1673.00         | -55.49    | -13.00      | -42.49      | 1.82 H             | 247                  | 48.36            | -103.85                  |
| 2                                                    | 2509.50         | -50.22    | -13.00      | -37.22      | 1.25 H             | 49                   | 50.65            | -100.87                  |
| Antenna Polarity & Test Distance : Vertical at 3 m   |                 |           |             |             |                    |                      |                  |                          |
| No                                                   | Frequency (MHz) | ERP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | 1673.00         | -48.65    | -13.00      | -35.65      | 1.35 V             | 186                  | 55.20            | -103.85                  |
| 2                                                    | 2509.50         | -38.67    | -13.00      | -25.67      | 2.26 V             | 142                  | 62.20            | -100.87                  |

**Remarks:**

1.  $ERP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2.  $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8 - 2.15$
3. Margin value = ERP – Limit value
4. The other ERP levels were very low against the limit.

|                        |                                         |                                          |                      |
|------------------------|-----------------------------------------|------------------------------------------|----------------------|
| <b>RF Mode</b>         | LTE Band 5<br>Channel Bandwidth: 1.4MHz | <b>Channel</b>                           | CH 20643 : 848.3 MHz |
| <b>Frequency Range</b> | 1 GHz ~ 18 GHz                          | <b>Detector Function &amp; Bandwidth</b> | 1 MHz/3 MHz (RMS)    |
| <b>Input Power</b>     | 120 Vac, 60 Hz                          | <b>Environmental Conditions</b>          | 23 °C, 67 % RH       |
| <b>Tested By</b>       | Karl Lee                                |                                          |                      |

| Antenna Polarity & Test Distance : Horizontal at 3 m |                 |           |             |             |                    |                      |                  |                          |
|------------------------------------------------------|-----------------|-----------|-------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No                                                   | Frequency (MHz) | ERP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | 1696.60         | -53.89    | -13.00      | -40.89      | 1.88 H             | 343                  | 49.96            | -103.85                  |
| 2                                                    | 2544.90         | -52.06    | -13.00      | -39.06      | 1.59 H             | 136                  | 48.70            | -100.76                  |
| Antenna Polarity & Test Distance : Vertical at 3 m   |                 |           |             |             |                    |                      |                  |                          |
| No                                                   | Frequency (MHz) | ERP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | 1696.60         | -53.05    | -13.00      | -40.05      | 2.23 V             | 181                  | 50.80            | -103.85                  |
| 2                                                    | 2544.90         | -45.20    | -13.00      | -32.20      | 1.32 V             | 82                   | 55.56            | -100.76                  |

**Remarks:**

1.  $ERP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2.  $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8 - 2.15$
3. Margin value = ERP – Limit value
4. The other ERP levels were very low against the limit.

|                        |                                       |                                          |                      |
|------------------------|---------------------------------------|------------------------------------------|----------------------|
| <b>RF Mode</b>         | LTE Band 5<br>Channel Bandwidth: 5MHz | <b>Channel</b>                           | CH 20425 : 826.5 MHz |
| <b>Frequency Range</b> | 1 GHz ~ 18 GHz                        | <b>Detector Function &amp; Bandwidth</b> | 1 MHz/3 MHz (RMS)    |
| <b>Input Power</b>     | 120 Vac, 60 Hz                        | <b>Environmental Conditions</b>          | 23 °C, 67 % RH       |
| <b>Tested By</b>       | Karl Lee                              |                                          |                      |

| Antenna Polarity & Test Distance : Horizontal at 3 m |                 |           |             |             |                    |                      |                  |                          |
|------------------------------------------------------|-----------------|-----------|-------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No                                                   | Frequency (MHz) | ERP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | 1653.00         | -56.34    | -13.00      | -43.34      | 2.39 H             | 147                  | 47.50            | -103.84                  |
| 2                                                    | 2479.50         | -53.85    | -13.00      | -40.85      | 1.83 H             | 58                   | 47.10            | -100.95                  |
| Antenna Polarity & Test Distance : Vertical at 3 m   |                 |           |             |             |                    |                      |                  |                          |
| No                                                   | Frequency (MHz) | ERP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | 1653.00         | -55.04    | -13.00      | -42.04      | 1.21 V             | 169                  | 48.80            | -103.84                  |
| 2                                                    | 2479.50         | -54.37    | -13.00      | -41.37      | 2.52 V             | 109                  | 46.58            | -100.95                  |

**Remarks:**

1.  $ERP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2.  $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8 - 2.15$
3. Margin value = ERP – Limit value
4. The other ERP levels were very low against the limit.

|                        |                                       |                                          |                      |
|------------------------|---------------------------------------|------------------------------------------|----------------------|
| <b>RF Mode</b>         | LTE Band 5<br>Channel Bandwidth: 5MHz | <b>Channel</b>                           | CH 20525 : 836.5 MHz |
| <b>Frequency Range</b> | 1 GHz ~ 18 GHz                        | <b>Detector Function &amp; Bandwidth</b> | 1 MHz/3 MHz (RMS)    |
| <b>Input Power</b>     | 120 Vac, 60 Hz                        | <b>Environmental Conditions</b>          | 23 °C, 67 % RH       |
| <b>Tested By</b>       | Karl Lee                              |                                          |                      |

| Antenna Polarity & Test Distance : Horizontal at 3 m |                 |           |             |             |                    |                      |                  |                          |
|------------------------------------------------------|-----------------|-----------|-------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No                                                   | Frequency (MHz) | ERP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | 1673.00         | -56.47    | -13.00      | -43.47      | 1.17 H             | 163                  | 47.38            | -103.85                  |
| 2                                                    | 2509.50         | -52.97    | -13.00      | -39.97      | 1.52 H             | 198                  | 47.90            | -100.87                  |
| Antenna Polarity & Test Distance : Vertical at 3 m   |                 |           |             |             |                    |                      |                  |                          |
| No                                                   | Frequency (MHz) | ERP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | 1673.00         | -53.87    | -13.00      | -40.87      | 1.53 V             | 61                   | 49.98            | -103.85                  |
| 2                                                    | 2509.50         | -45.47    | -13.00      | -32.47      | 1.72 V             | 314                  | 55.40            | -100.87                  |

**Remarks:**

1.  $ERP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2.  $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8 - 2.15$
3. Margin value = ERP – Limit value
4. The other ERP levels were very low against the limit.



|                        |                                       |                                          |                      |
|------------------------|---------------------------------------|------------------------------------------|----------------------|
| <b>RF Mode</b>         | LTE Band 5<br>Channel Bandwidth: 5MHz | <b>Channel</b>                           | CH 20625 : 846.5 MHz |
| <b>Frequency Range</b> | 1 GHz ~ 18 GHz                        | <b>Detector Function &amp; Bandwidth</b> | 1 MHz/3 MHz (RMS)    |
| <b>Input Power</b>     | 120 Vac, 60 Hz                        | <b>Environmental Conditions</b>          | 23 °C, 67 % RH       |
| <b>Tested By</b>       | Karl Lee                              |                                          |                      |

| Antenna Polarity & Test Distance : Horizontal at 3 m |                 |           |             |             |                    |                      |                  |                          |
|------------------------------------------------------|-----------------|-----------|-------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No                                                   | Frequency (MHz) | ERP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | 1693.00         | -56.03    | -13.00      | -43.03      | 2.71 H             | 153                  | 47.80            | -103.83                  |
| 2                                                    | 2539.50         | -51.97    | -13.00      | -38.97      | 1.38 H             | 151                  | 48.80            | -100.77                  |
| Antenna Polarity & Test Distance : Vertical at 3 m   |                 |           |             |             |                    |                      |                  |                          |
| No                                                   | Frequency (MHz) | ERP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | 1693.00         | -55.03    | -13.00      | -42.03      | 2.01 V             | 82                   | 48.80            | -103.83                  |
| 2                                                    | 2539.50         | -41.50    | -13.00      | -28.50      | 1.05 V             | 226                  | 59.27            | -100.77                  |

**Remarks:**

1.  $ERP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2.  $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8 - 2.15$
3. Margin value = ERP – Limit value
4. The other ERP levels were very low against the limit.

|                        |                                        |                                          |                    |
|------------------------|----------------------------------------|------------------------------------------|--------------------|
| <b>RF Mode</b>         | LTE Band 5<br>Channel Bandwidth: 10MHz | <b>Channel</b>                           | CH 20450 : 829 MHz |
| <b>Frequency Range</b> | 1 GHz ~ 18 GHz                         | <b>Detector Function &amp; Bandwidth</b> | 1 MHz/3 MHz (RMS)  |
| <b>Input Power</b>     | 120 Vac, 60 Hz                         | <b>Environmental Conditions</b>          | 23 °C, 67 % RH     |
| <b>Tested By</b>       | Karl Lee                               |                                          |                    |

| Antenna Polarity & Test Distance : Horizontal at 3 m |                 |           |             |             |                    |                      |                  |                          |
|------------------------------------------------------|-----------------|-----------|-------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No                                                   | Frequency (MHz) | ERP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | 1658.00         | -56.40    | -13.00      | -43.40      | 2.68 H             | 151                  | 47.46            | -103.86                  |
| 2                                                    | 2487.00         | -50.43    | -13.00      | -37.43      | 1.92 H             | 37                   | 50.50            | -100.93                  |
| Antenna Polarity & Test Distance : Vertical at 3 m   |                 |           |             |             |                    |                      |                  |                          |
| No                                                   | Frequency (MHz) | ERP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | 1658.00         | -56.26    | -13.00      | -43.26      | 1.41 V             | 247                  | 47.60            | -103.86                  |
| 2                                                    | 2487.00         | -51.43    | -13.00      | -38.43      | 1.82 V             | 116                  | 49.50            | -100.93                  |

**Remarks:**

1.  $ERP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2.  $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8 - 2.15$
3. Margin value = ERP – Limit value
4. The other ERP levels were very low against the limit.

|                        |                                        |                                          |                      |
|------------------------|----------------------------------------|------------------------------------------|----------------------|
| <b>RF Mode</b>         | LTE Band 5<br>Channel Bandwidth: 10MHz | <b>Channel</b>                           | CH 20525 : 836.5 MHz |
| <b>Frequency Range</b> | 1 GHz ~ 18 GHz                         | <b>Detector Function &amp; Bandwidth</b> | 1 MHz/3 MHz (RMS)    |
| <b>Input Power</b>     | 120 Vac, 60 Hz                         | <b>Environmental Conditions</b>          | 23 °C, 67 % RH       |
| <b>Tested By</b>       | Karl Lee                               |                                          |                      |

| Antenna Polarity & Test Distance : Horizontal at 3 m |                 |           |             |             |                    |                      |                  |                          |
|------------------------------------------------------|-----------------|-----------|-------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No                                                   | Frequency (MHz) | ERP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | 1673.00         | -57.56    | -13.00      | -44.56      | 1.77 H             | 130                  | 46.29            | -103.85                  |
| 2                                                    | 2509.50         | -46.52    | -13.00      | -33.52      | 2.12 H             | 74                   | 54.35            | -100.87                  |
| Antenna Polarity & Test Distance : Vertical at 3 m   |                 |           |             |             |                    |                      |                  |                          |
| No                                                   | Frequency (MHz) | ERP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | 1673.00         | -56.95    | -13.00      | -43.95      | 1.62 V             | 291                  | 46.90            | -103.85                  |
| 2                                                    | 2509.50         | -52.42    | -13.00      | -39.42      | 1.18 V             | 31                   | 48.45            | -100.87                  |

**Remarks:**

1.  $ERP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2.  $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8 - 2.15$
3. Margin value = ERP – Limit value
4. The other ERP levels were very low against the limit.

|                        |                                        |                                          |                    |
|------------------------|----------------------------------------|------------------------------------------|--------------------|
| <b>RF Mode</b>         | LTE Band 5<br>Channel Bandwidth: 10MHz | <b>Channel</b>                           | CH 20600 : 844 MHz |
| <b>Frequency Range</b> | 1 GHz ~ 18 GHz                         | <b>Detector Function &amp; Bandwidth</b> | 1 MHz/3 MHz (RMS)  |
| <b>Input Power</b>     | 120 Vac, 60 Hz                         | <b>Environmental Conditions</b>          | 23 °C, 67 % RH     |
| <b>Tested By</b>       | Karl Lee                               |                                          |                    |

| Antenna Polarity & Test Distance : Horizontal at 3 m |                 |           |             |             |                    |                      |                  |                          |
|------------------------------------------------------|-----------------|-----------|-------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No                                                   | Frequency (MHz) | ERP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | 1688.00         | -56.74    | -13.00      | -43.74      | 1.72 H             | 160                  | 47.10            | -103.84                  |
| 2                                                    | 2532.00         | -51.40    | -13.00      | -38.40      | 1.82 H             | 322                  | 49.40            | -100.80                  |
| Antenna Polarity & Test Distance : Vertical at 3 m   |                 |           |             |             |                    |                      |                  |                          |
| No                                                   | Frequency (MHz) | ERP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | 1688.00         | -57.44    | -13.00      | -44.44      | 2.29 V             | 108                  | 46.40            | -103.84                  |
| 2                                                    | 2532.00         | -39.78    | -13.00      | -26.78      | 1.26 V             | 84                   | 61.02            | -100.80                  |

**Remarks:**

1.  $ERP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2.  $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8 - 2.15$
3. Margin value = ERP – Limit value
4. The other ERP levels were very low against the limit.

#### 7.7.4 LTE Band 12

|                        |                                          |                                          |                      |
|------------------------|------------------------------------------|------------------------------------------|----------------------|
| <b>RF Mode</b>         | LTE Band 12<br>Channel Bandwidth: 1.4MHz | <b>Channel</b>                           | CH 23017 : 699.7 MHz |
| <b>Frequency Range</b> | 1 GHz ~ 18 GHz                           | <b>Detector Function &amp; Bandwidth</b> | 1 MHz/3 MHz (RMS)    |
| <b>Input Power</b>     | 120 Vac, 60 Hz                           | <b>Environmental Conditions</b>          | 23 °C, 67 % RH       |
| <b>Tested By</b>       | Karl Lee                                 |                                          |                      |

| Antenna Polarity & Test Distance : Horizontal at 3 m |                 |           |             |             |                    |                      |                  |                          |
|------------------------------------------------------|-----------------|-----------|-------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No                                                   | Frequency (MHz) | ERP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | 1399.40         | -49.02    | -13.00      | -36.02      | 2.85 H             | 131                  | 55.07            | -104.09                  |
| 2                                                    | 2099.10         | -43.82    | -13.00      | -30.82      | 1.62 H             | 49                   | 58.22            | -102.04                  |
| Antenna Polarity & Test Distance : Vertical at 3 m   |                 |           |             |             |                    |                      |                  |                          |
| No                                                   | Frequency (MHz) | ERP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | 1399.40         | -50.91    | -13.00      | -37.91      | 1.72 V             | 231                  | 53.18            | -104.09                  |
| 2                                                    | 2099.10         | -40.51    | -13.00      | -27.51      | 2.25 V             | 142                  | 61.53            | -102.04                  |

#### Remarks:

1.  $ERP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2.  $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8 - 2.15$
3. Margin value = ERP – Limit value
4. The other ERP levels were very low against the limit.

|                        |                                          |                                          |                      |
|------------------------|------------------------------------------|------------------------------------------|----------------------|
| <b>RF Mode</b>         | LTE Band 12<br>Channel Bandwidth: 1.4MHz | <b>Channel</b>                           | CH 23095 : 707.5 MHz |
| <b>Frequency Range</b> | 1 GHz ~ 18 GHz                           | <b>Detector Function &amp; Bandwidth</b> | 1 MHz/3 MHz (RMS)    |
| <b>Input Power</b>     | 120 Vac, 60 Hz                           | <b>Environmental Conditions</b>          | 23 °C, 67 % RH       |
| <b>Tested By</b>       | Karl Lee                                 |                                          |                      |

| Antenna Polarity & Test Distance : Horizontal at 3 m |                 |           |             |             |                    |                      |                  |                          |
|------------------------------------------------------|-----------------|-----------|-------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No                                                   | Frequency (MHz) | ERP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | 1415.00         | -50.50    | -13.00      | -37.50      | 1.26 H             | 322                  | 53.55            | -104.05                  |
| 2                                                    | 2122.50         | -47.49    | -13.00      | -34.49      | 2.35 H             | 185                  | 54.46            | -101.95                  |
| Antenna Polarity & Test Distance : Vertical at 3 m   |                 |           |             |             |                    |                      |                  |                          |
| No                                                   | Frequency (MHz) | ERP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | 1415.00         | -50.74    | -13.00      | -37.74      | 2.16 V             | 283                  | 53.31            | -104.05                  |
| 2                                                    | 2122.50         | -43.42    | -13.00      | -30.42      | 1.92 V             | 172                  | 58.53            | -101.95                  |

**Remarks:**

1.  $ERP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2.  $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8 - 2.15$
3. Margin value = ERP – Limit value
4. The other ERP levels were very low against the limit.

|                        |                                          |                                          |                      |
|------------------------|------------------------------------------|------------------------------------------|----------------------|
| <b>RF Mode</b>         | LTE Band 12<br>Channel Bandwidth: 1.4MHz | <b>Channel</b>                           | CH 23173 : 715.3 MHz |
| <b>Frequency Range</b> | 1 GHz ~ 18 GHz                           | <b>Detector Function &amp; Bandwidth</b> | 1 MHz/3 MHz (RMS)    |
| <b>Input Power</b>     | 120 Vac, 60 Hz                           | <b>Environmental Conditions</b>          | 23 °C, 67 % RH       |
| <b>Tested By</b>       | Karl Lee                                 |                                          |                      |

| Antenna Polarity & Test Distance : Horizontal at 3 m |                 |           |             |             |                    |                      |                  |                          |
|------------------------------------------------------|-----------------|-----------|-------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No                                                   | Frequency (MHz) | ERP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | 1430.60         | -45.54    | -13.00      | -32.54      | 1.31 H             | 284                  | 58.48            | -104.02                  |
| 2                                                    | 2145.90         | -42.44    | -13.00      | -29.44      | 1.65 H             | 188                  | 59.40            | -101.84                  |
| Antenna Polarity & Test Distance : Vertical at 3 m   |                 |           |             |             |                    |                      |                  |                          |
| No                                                   | Frequency (MHz) | ERP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | 1430.60         | -41.24    | -13.00      | -28.24      | 1.38 V             | 259                  | 62.78            | -104.02                  |
| 2                                                    | 2145.90         | -39.97    | -13.00      | -26.97      | 1.28 V             | 36                   | 61.87            | -101.84                  |

**Remarks:**

1.  $ERP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2.  $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8 - 2.15$
3. Margin value = ERP – Limit value
4. The other ERP levels were very low against the limit.

|                        |                                        |                                          |                      |
|------------------------|----------------------------------------|------------------------------------------|----------------------|
| <b>RF Mode</b>         | LTE Band 12<br>Channel Bandwidth: 5MHz | <b>Channel</b>                           | CH 23035 : 701.5 MHz |
| <b>Frequency Range</b> | 1 GHz ~ 18 GHz                         | <b>Detector Function &amp; Bandwidth</b> | 1 MHz/3 MHz (RMS)    |
| <b>Input Power</b>     | 120 Vac, 60 Hz                         | <b>Environmental Conditions</b>          | 23 °C, 67 % RH       |
| <b>Tested By</b>       | Karl Lee                               |                                          |                      |

| Antenna Polarity & Test Distance : Horizontal at 3 m |                 |           |             |             |                    |                      |                  |                          |
|------------------------------------------------------|-----------------|-----------|-------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No                                                   | Frequency (MHz) | ERP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | 1403.00         | -50.41    | -13.00      | -37.41      | 2.50 H             | 14                   | 53.67            | -104.08                  |
| 2                                                    | 2104.50         | -41.69    | -13.00      | -28.69      | 1.94 H             | 222                  | 60.33            | -102.02                  |
| Antenna Polarity & Test Distance : Vertical at 3 m   |                 |           |             |             |                    |                      |                  |                          |
| No                                                   | Frequency (MHz) | ERP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | 1403.00         | -50.66    | -13.00      | -37.66      | 1.58 V             | 59                   | 53.42            | -104.08                  |
| 2                                                    | 2104.50         | -38.72    | -13.00      | -25.72      | 1.77 V             | 165                  | 63.30            | -102.02                  |

**Remarks:**

1.  $ERP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2.  $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8 - 2.15$
3. Margin value = ERP – Limit value
4. The other ERP levels were very low against the limit.



|                        |                                        |                                          |                      |
|------------------------|----------------------------------------|------------------------------------------|----------------------|
| <b>RF Mode</b>         | LTE Band 12<br>Channel Bandwidth: 5MHz | <b>Channel</b>                           | CH 23095 : 707.5 MHz |
| <b>Frequency Range</b> | 1 GHz ~ 18 GHz                         | <b>Detector Function &amp; Bandwidth</b> | 1 MHz/3 MHz (RMS)    |
| <b>Input Power</b>     | 120 Vac, 60 Hz                         | <b>Environmental Conditions</b>          | 23 °C, 67 % RH       |
| <b>Tested By</b>       | Karl Lee                               |                                          |                      |

| Antenna Polarity & Test Distance : Horizontal at 3 m |                 |           |             |             |                    |                      |                  |                          |
|------------------------------------------------------|-----------------|-----------|-------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No                                                   | Frequency (MHz) | ERP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | 1415.00         | -50.73    | -13.00      | -37.73      | 2.36 H             | 293                  | 53.32            | -104.05                  |
| 2                                                    | 2122.50         | -47.58    | -13.00      | -34.58      | 2.18 H             | 123                  | 54.37            | -101.95                  |
| Antenna Polarity & Test Distance : Vertical at 3 m   |                 |           |             |             |                    |                      |                  |                          |
| No                                                   | Frequency (MHz) | ERP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | 1415.00         | -50.37    | -13.00      | -37.37      | 2.84 V             | 106                  | 53.68            | -104.05                  |
| 2                                                    | 2122.50         | -44.29    | -13.00      | -31.29      | 1.59 V             | 23                   | 57.66            | -101.95                  |

**Remarks:**

1.  $ERP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2.  $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8 - 2.15$
3. Margin value = ERP – Limit value
4. The other ERP levels were very low against the limit.

|                        |                                        |                                          |                      |
|------------------------|----------------------------------------|------------------------------------------|----------------------|
| <b>RF Mode</b>         | LTE Band 12<br>Channel Bandwidth: 5MHz | <b>Channel</b>                           | CH 23155 : 713.5 MHz |
| <b>Frequency Range</b> | 1 GHz ~ 18 GHz                         | <b>Detector Function &amp; Bandwidth</b> | 1 MHz/3 MHz (RMS)    |
| <b>Input Power</b>     | 120 Vac, 60 Hz                         | <b>Environmental Conditions</b>          | 23 °C, 67 % RH       |
| <b>Tested By</b>       | Karl Lee                               |                                          |                      |

| Antenna Polarity & Test Distance : Horizontal at 3 m |                 |           |             |             |                    |                      |                  |                          |
|------------------------------------------------------|-----------------|-----------|-------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No                                                   | Frequency (MHz) | ERP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | 1427.00         | -49.81    | -13.00      | -36.81      | 1.29 H             | 256                  | 54.21            | -104.02                  |
| 2                                                    | 2140.50         | -40.82    | -13.00      | -27.82      | 2.24 H             | 153                  | 61.04            | -101.86                  |
| Antenna Polarity & Test Distance : Vertical at 3 m   |                 |           |             |             |                    |                      |                  |                          |
| No                                                   | Frequency (MHz) | ERP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | 1427.00         | -49.76    | -13.00      | -36.76      | 1.64 V             | 84                   | 54.26            | -104.02                  |
| 2                                                    | 2140.50         | -37.99    | -13.00      | -24.99      | 1.81 V             | 125                  | 63.87            | -101.86                  |

**Remarks:**

1.  $ERP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2.  $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8 - 2.15$
3. Margin value = ERP – Limit value
4. The other ERP levels were very low against the limit.

|                        |                                         |                                          |                    |
|------------------------|-----------------------------------------|------------------------------------------|--------------------|
| <b>RF Mode</b>         | LTE Band 12<br>Channel Bandwidth: 10MHz | <b>Channel</b>                           | CH 23060 : 704 MHz |
| <b>Frequency Range</b> | 1 GHz ~ 18 GHz                          | <b>Detector Function &amp; Bandwidth</b> | 1 MHz/3 MHz (RMS)  |
| <b>Input Power</b>     | 120 Vac, 60 Hz                          | <b>Environmental Conditions</b>          | 23 °C, 67 % RH     |
| <b>Tested By</b>       | Karl Lee                                |                                          |                    |

| Antenna Polarity & Test Distance : Horizontal at 3 m |                 |           |             |             |                    |                      |                  |                          |
|------------------------------------------------------|-----------------|-----------|-------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No                                                   | Frequency (MHz) | ERP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | 1408.00         | -50.70    | -13.00      | -37.70      | 1.72 H             | 53                   | 53.38            | -104.08                  |
| 2                                                    | 2112.00         | -40.07    | -13.00      | -27.07      | 2.79 H             | 152                  | 61.92            | -101.99                  |
| Antenna Polarity & Test Distance : Vertical at 3 m   |                 |           |             |             |                    |                      |                  |                          |
| No                                                   | Frequency (MHz) | ERP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | 1408.00         | -49.60    | -13.00      | -36.60      | 1.66 V             | 259                  | 54.48            | -104.08                  |
| 2                                                    | 2112.00         | -36.47    | -13.00      | -23.47      | 1.35 V             | 56                   | 65.52            | -101.99                  |

**Remarks:**

1.  $ERP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2.  $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8 - 2.15$
3. Margin value = ERP – Limit value
4. The other ERP levels were very low against the limit.

|                        |                                         |                                          |                      |
|------------------------|-----------------------------------------|------------------------------------------|----------------------|
| <b>RF Mode</b>         | LTE Band 12<br>Channel Bandwidth: 10MHz | <b>Channel</b>                           | CH 23095 : 707.5 MHz |
| <b>Frequency Range</b> | 1 GHz ~ 18 GHz                          | <b>Detector Function &amp; Bandwidth</b> | 1 MHz/3 MHz (RMS)    |
| <b>Input Power</b>     | 120 Vac, 60 Hz                          | <b>Environmental Conditions</b>          | 23 °C, 67 % RH       |
| <b>Tested By</b>       | Karl Lee                                |                                          |                      |

| Antenna Polarity & Test Distance : Horizontal at 3 m |                 |           |             |             |                    |                      |                  |                          |
|------------------------------------------------------|-----------------|-----------|-------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No                                                   | Frequency (MHz) | ERP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | 1415.00         | -49.61    | -13.00      | -36.61      | 1.72 H             | 184                  | 54.44            | -104.05                  |
| 2                                                    | 2122.50         | -47.36    | -13.00      | -34.36      | 2.63 H             | 115                  | 54.59            | -101.95                  |
| Antenna Polarity & Test Distance : Vertical at 3 m   |                 |           |             |             |                    |                      |                  |                          |
| No                                                   | Frequency (MHz) | ERP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | 1415.00         | -50.06    | -13.00      | -37.06      | 1.28 V             | 212                  | 53.99            | -104.05                  |
| 2                                                    | 2122.50         | -44.06    | -13.00      | -31.06      | 2.32 V             | 197                  | 57.89            | -101.95                  |

**Remarks:**

1.  $ERP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2.  $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8 - 2.15$
3. Margin value = ERP – Limit value
4. The other ERP levels were very low against the limit.

|                        |                                         |                                          |                    |
|------------------------|-----------------------------------------|------------------------------------------|--------------------|
| <b>RF Mode</b>         | LTE Band 12<br>Channel Bandwidth: 10MHz | <b>Channel</b>                           | CH 23130 : 711 MHz |
| <b>Frequency Range</b> | 1 GHz ~ 18 GHz                          | <b>Detector Function &amp; Bandwidth</b> | 1 MHz/3 MHz (RMS)  |
| <b>Input Power</b>     | 120 Vac, 60 Hz                          | <b>Environmental Conditions</b>          | 23 °C, 67 % RH     |
| <b>Tested By</b>       | Karl Lee                                |                                          |                    |

| Antenna Polarity & Test Distance : Horizontal at 3 m |                 |           |             |             |                    |                      |                  |                          |
|------------------------------------------------------|-----------------|-----------|-------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No                                                   | Frequency (MHz) | ERP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | 1422.00         | -50.15    | -13.00      | -37.15      | 1.93 H             | 51                   | 53.89            | -104.04                  |
| 2                                                    | 2133.00         | -42.14    | -13.00      | -29.14      | 2.11 H             | 146                  | 59.75            | -101.89                  |
| Antenna Polarity & Test Distance : Vertical at 3 m   |                 |           |             |             |                    |                      |                  |                          |
| No                                                   | Frequency (MHz) | ERP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | 1422.00         | -49.17    | -13.00      | -36.17      | 1.34 V             | 281                  | 54.87            | -104.04                  |
| 2                                                    | 2133.00         | -39.19    | -13.00      | -26.19      | 2.08 V             | 122                  | 62.70            | -101.89                  |

**Remarks:**

1.  $ERP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2.  $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8 - 2.15$
3. Margin value = ERP – Limit value
4. The other ERP levels were very low against the limit.

### 7.7.5 LTE Band 13

|                        |                                        |                                          |                      |
|------------------------|----------------------------------------|------------------------------------------|----------------------|
| <b>RF Mode</b>         | LTE Band 13<br>Channel Bandwidth: 5MHz | <b>Channel</b>                           | CH 23205 : 779.5 MHz |
| <b>Frequency Range</b> | 1 GHz ~ 18 GHz                         | <b>Detector Function &amp; Bandwidth</b> | 1 MHz/3 MHz (RMS)    |
| <b>Input Power</b>     | 120 Vac, 60 Hz                         | <b>Environmental Conditions</b>          | 23 °C, 67 % RH       |
| <b>Tested By</b>       | Karl Lee                               |                                          |                      |

| Antenna Polarity & Test Distance : Horizontal at 3 m |                 |            |             |             |                    |                      |                  |                          |
|------------------------------------------------------|-----------------|------------|-------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No                                                   | Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | 1559.00         | -58.24     | -40.00      | -18.24      | 2.90 H             | 326                  | 43.59            | -101.83                  |
| Antenna Polarity & Test Distance : Vertical at 3 m   |                 |            |             |             |                    |                      |                  |                          |
| No                                                   | Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | 1559.00         | -57.72     | -40.00      | -17.72      | 1.34 V             | 208                  | 44.11            | -101.83                  |

#### Remarks:

1.  $EIRP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2.  $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8$
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit.

|                        |                                        |                                          |                    |
|------------------------|----------------------------------------|------------------------------------------|--------------------|
| <b>RF Mode</b>         | LTE Band 13<br>Channel Bandwidth: 5MHz | <b>Channel</b>                           | CH 23230 : 782 MHz |
| <b>Frequency Range</b> | 1 GHz ~ 18 GHz                         | <b>Detector Function &amp; Bandwidth</b> | 1 MHz/3 MHz (RMS)  |
| <b>Input Power</b>     | 120 Vac, 60 Hz                         | <b>Environmental Conditions</b>          | 23 °C, 67 % RH     |
| <b>Tested By</b>       | Karl Lee                               |                                          |                    |

| Antenna Polarity & Test Distance : Horizontal at 3 m |                 |            |             |             |                    |                      |                  |                          |
|------------------------------------------------------|-----------------|------------|-------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No                                                   | Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | 1564.00         | -58.17     | -40.00      | -18.17      | 1.59 H             | 256                  | 43.65            | -101.82                  |
| Antenna Polarity & Test Distance : Vertical at 3 m   |                 |            |             |             |                    |                      |                  |                          |
| No                                                   | Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | 1564.00         | -56.71     | -40.00      | -16.71      | 1.52 V             | 71                   | 45.11            | -101.82                  |

**Remarks:**

1.  $EIRP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2.  $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8$
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit.

|                        |                                        |                                          |                      |
|------------------------|----------------------------------------|------------------------------------------|----------------------|
| <b>RF Mode</b>         | LTE Band 13<br>Channel Bandwidth: 5MHz | <b>Channel</b>                           | CH 23255 : 784.5 MHz |
| <b>Frequency Range</b> | 1 GHz ~ 18 GHz                         | <b>Detector Function &amp; Bandwidth</b> | 1 MHz/3 MHz (RMS)    |
| <b>Input Power</b>     | 120 Vac, 60 Hz                         | <b>Environmental Conditions</b>          | 23 °C, 67 % RH       |
| <b>Tested By</b>       | Karl Lee                               |                                          |                      |

| Antenna Polarity & Test Distance : Horizontal at 3 m |                 |            |             |             |                    |                      |                  |                          |
|------------------------------------------------------|-----------------|------------|-------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No                                                   | Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | 1569.00         | -58.17     | -40.00      | -18.17      | 2.26 H             | 281                  | 43.64            | -101.81                  |
| Antenna Polarity & Test Distance : Vertical at 3 m   |                 |            |             |             |                    |                      |                  |                          |
| No                                                   | Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | 1569.00         | -57.90     | -40.00      | -17.90      | 1.15 V             | 238                  | 43.91            | -101.81                  |

**Remarks:**

1.  $EIRP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2.  $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8$
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit.



|                        |                                         |                                          |                    |
|------------------------|-----------------------------------------|------------------------------------------|--------------------|
| <b>RF Mode</b>         | LTE Band 13<br>Channel Bandwidth: 10MHz | <b>Channel</b>                           | CH 23230 : 782 MHz |
| <b>Frequency Range</b> | 1 GHz ~ 18 GHz                          | <b>Detector Function &amp; Bandwidth</b> | 1 MHz/3 MHz (RMS)  |
| <b>Input Power</b>     | 120 Vac, 60 Hz                          | <b>Environmental Conditions</b>          | 23 °C, 67 % RH     |
| <b>Tested By</b>       | Karl Lee                                |                                          |                    |

| Antenna Polarity & Test Distance : Horizontal at 3 m |                 |            |             |             |                    |                      |                  |                          |
|------------------------------------------------------|-----------------|------------|-------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No                                                   | Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | 1564.00         | -57.96     | -40.00      | -17.96      | 1.77 H             | 196                  | 43.86            | -101.82                  |
| Antenna Polarity & Test Distance : Vertical at 3 m   |                 |            |             |             |                    |                      |                  |                          |
| No                                                   | Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | 1564.00         | -58.27     | -40.00      | -18.27      | 2.41 V             | 85                   | 43.55            | -101.82                  |

**Remarks:**

1.  $EIRP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2.  $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8$
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit.

#### 7.7.6 LTE Band 25

|                        |                                          |                                          |                       |
|------------------------|------------------------------------------|------------------------------------------|-----------------------|
| <b>RF Mode</b>         | LTE Band 25<br>Channel Bandwidth: 1.4MHz | <b>Channel</b>                           | CH 26047 : 1850.7 MHz |
| <b>Frequency Range</b> | 1 GHz ~ 20 GHz                           | <b>Detector Function &amp; Bandwidth</b> | 1 MHz/3 MHz (RMS)     |
| <b>Input Power</b>     | 120 Vac, 60 Hz                           | <b>Environmental Conditions</b>          | 23 °C, 67 % RH        |
| <b>Tested By</b>       | Karl Lee                                 |                                          |                       |

| Antenna Polarity & Test Distance : Horizontal at 3 m |                 |            |             |             |                    |                      |                  |                          |
|------------------------------------------------------|-----------------|------------|-------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No                                                   | Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | 3701.40         | -49.77     | -13.00      | -36.77      | 1.86 H             | 224                  | 45.72            | -95.49                   |
| Antenna Polarity & Test Distance : Vertical at 3 m   |                 |            |             |             |                    |                      |                  |                          |
| No                                                   | Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | 3701.40         | -50.11     | -13.00      | -37.11      | 1.38 V             | 152                  | 45.38            | -95.49                   |

#### Remarks:

1.  $EIRP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2.  $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8$
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit.

|                        |                                          |                                          |                       |
|------------------------|------------------------------------------|------------------------------------------|-----------------------|
| <b>RF Mode</b>         | LTE Band 25<br>Channel Bandwidth: 1.4MHz | <b>Channel</b>                           | CH 26365 : 1882.5 MHz |
| <b>Frequency Range</b> | 1 GHz ~ 20 GHz                           | <b>Detector Function &amp; Bandwidth</b> | 1 MHz/3 MHz (RMS)     |
| <b>Input Power</b>     | 120 Vac, 60 Hz                           | <b>Environmental Conditions</b>          | 23 °C, 67 % RH        |
| <b>Tested By</b>       | Karl Lee                                 |                                          |                       |

| Antenna Polarity & Test Distance : Horizontal at 3 m |                 |            |             |             |                    |                      |                  |                          |
|------------------------------------------------------|-----------------|------------|-------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No                                                   | Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | 3765.00         | -49.16     | -13.00      | -36.16      | 2.04 H             | 150                  | 45.93            | -95.09                   |
| Antenna Polarity & Test Distance : Vertical at 3 m   |                 |            |             |             |                    |                      |                  |                          |
| No                                                   | Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | 3765.00         | -49.17     | -13.00      | -36.17      | 1.60 V             | 315                  | 45.92            | -95.09                   |

**Remarks:**

1.  $EIRP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2.  $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8$
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit.

|                        |                                          |                                          |                       |
|------------------------|------------------------------------------|------------------------------------------|-----------------------|
| <b>RF Mode</b>         | LTE Band 25<br>Channel Bandwidth: 1.4MHz | <b>Channel</b>                           | CH 26683 : 1914.3 MHz |
| <b>Frequency Range</b> | 1 GHz ~ 20 GHz                           | <b>Detector Function &amp; Bandwidth</b> | 1 MHz/3 MHz (RMS)     |
| <b>Input Power</b>     | 120 Vac, 60 Hz                           | <b>Environmental Conditions</b>          | 23 °C, 67 % RH        |
| <b>Tested By</b>       | Karl Lee                                 |                                          |                       |

| Antenna Polarity & Test Distance : Horizontal at 3 m |                 |            |             |             |                    |                      |                  |                          |
|------------------------------------------------------|-----------------|------------|-------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No                                                   | Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | 3828.60         | -49.83     | -13.00      | -36.83      | 1.74 H             | 352                  | 45.05            | -94.88                   |
| Antenna Polarity & Test Distance : Vertical at 3 m   |                 |            |             |             |                    |                      |                  |                          |
| No                                                   | Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | 3828.60         | -49.72     | -13.00      | -36.72      | 1.06 V             | 38                   | 45.16            | -94.88                   |

**Remarks:**

1.  $EIRP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2.  $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8$
3.  $Margin\ value = EIRP - Limit\ value$
4. The other EIRP levels were very low against the limit.

|                        |                                        |                                          |                       |
|------------------------|----------------------------------------|------------------------------------------|-----------------------|
| <b>RF Mode</b>         | LTE Band 25<br>Channel Bandwidth: 5MHz | <b>Channel</b>                           | CH 26065 : 1852.5 MHz |
| <b>Frequency Range</b> | 1 GHz ~ 20 GHz                         | <b>Detector Function &amp; Bandwidth</b> | 1 MHz/3 MHz (RMS)     |
| <b>Input Power</b>     | 120 Vac, 60 Hz                         | <b>Environmental Conditions</b>          | 23 °C, 67 % RH        |
| <b>Tested By</b>       | Karl Lee                               |                                          |                       |

| Antenna Polarity & Test Distance : Horizontal at 3 m |                 |            |             |             |                    |                      |                  |                          |
|------------------------------------------------------|-----------------|------------|-------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No                                                   | Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | 3705.00         | -49.87     | -13.00      | -36.87      | 2.06 H             | 312                  | 45.60            | -95.47                   |
| Antenna Polarity & Test Distance : Vertical at 3 m   |                 |            |             |             |                    |                      |                  |                          |
| No                                                   | Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | 3705.00         | -50.29     | -13.00      | -37.29      | 1.69 V             | 253                  | 45.18            | -95.47                   |

**Remarks:**

1.  $EIRP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2.  $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8$
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit.

|                        |                                        |                                          |                       |
|------------------------|----------------------------------------|------------------------------------------|-----------------------|
| <b>RF Mode</b>         | LTE Band 25<br>Channel Bandwidth: 5MHz | <b>Channel</b>                           | CH 26365 : 1882.5 MHz |
| <b>Frequency Range</b> | 1 GHz ~ 20 GHz                         | <b>Detector Function &amp; Bandwidth</b> | 1 MHz/3 MHz (RMS)     |
| <b>Input Power</b>     | 120 Vac, 60 Hz                         | <b>Environmental Conditions</b>          | 23 °C, 67 % RH        |
| <b>Tested By</b>       | Karl Lee                               |                                          |                       |

| Antenna Polarity & Test Distance : Horizontal at 3 m |                 |            |             |             |                    |                      |                  |                          |
|------------------------------------------------------|-----------------|------------|-------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No                                                   | Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | 3765.00         | -49.00     | -13.00      | -36.00      | 1.99 H             | 322                  | 46.09            | -95.09                   |
| Antenna Polarity & Test Distance : Vertical at 3 m   |                 |            |             |             |                    |                      |                  |                          |
| No                                                   | Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | 3765.00         | -49.47     | -13.00      | -36.47      | 1.61 V             | 29                   | 45.62            | -95.09                   |

**Remarks:**

1.  $EIRP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2.  $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8$
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit.

|                        |                                        |                                          |                       |
|------------------------|----------------------------------------|------------------------------------------|-----------------------|
| <b>RF Mode</b>         | LTE Band 25<br>Channel Bandwidth: 5MHz | <b>Channel</b>                           | CH 26665 : 1912.5 MHz |
| <b>Frequency Range</b> | 1 GHz ~ 20 GHz                         | <b>Detector Function &amp; Bandwidth</b> | 1 MHz/3 MHz (RMS)     |
| <b>Input Power</b>     | 120 Vac, 60 Hz                         | <b>Environmental Conditions</b>          | 23 °C, 67 % RH        |
| <b>Tested By</b>       | Karl Lee                               |                                          |                       |

| Antenna Polarity & Test Distance : Horizontal at 3 m |                 |            |             |             |                    |                      |                  |                          |
|------------------------------------------------------|-----------------|------------|-------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No                                                   | Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | 3825.00         | -49.84     | -13.00      | -36.84      | 1.35 H             | 82                   | 45.04            | -94.88                   |
| Antenna Polarity & Test Distance : Vertical at 3 m   |                 |            |             |             |                    |                      |                  |                          |
| No                                                   | Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | 3825.00         | -49.56     | -13.00      | -36.56      | 1.57 V             | 126                  | 45.32            | -94.88                   |

**Remarks:**

1.  $EIRP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2.  $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8$
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit.

|                        |                                         |                                          |                     |
|------------------------|-----------------------------------------|------------------------------------------|---------------------|
| <b>RF Mode</b>         | LTE Band 25<br>Channel Bandwidth: 20MHz | <b>Channel</b>                           | CH 26140 : 1860 MHz |
| <b>Frequency Range</b> | 1 GHz ~ 20 GHz                          | <b>Detector Function &amp; Bandwidth</b> | 1 MHz/3 MHz (RMS)   |
| <b>Input Power</b>     | 120 Vac, 60 Hz                          | <b>Environmental Conditions</b>          | 23 °C, 67 % RH      |
| <b>Tested By</b>       | Karl Lee                                |                                          |                     |

| Antenna Polarity & Test Distance : Horizontal at 3 m |                 |            |             |             |                    |                      |                  |                          |
|------------------------------------------------------|-----------------|------------|-------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No                                                   | Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | 3720.00         | -49.77     | -13.00      | -36.77      | 1.60 H             | 252                  | 45.59            | -95.36                   |
| Antenna Polarity & Test Distance : Vertical at 3 m   |                 |            |             |             |                    |                      |                  |                          |
| No                                                   | Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | 3720.00         | -49.39     | -13.00      | -36.39      | 2.19 V             | 50                   | 45.97            | -95.36                   |

**Remarks:**

1.  $EIRP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2.  $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8$
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit.



|                        |                                         |                                          |                       |
|------------------------|-----------------------------------------|------------------------------------------|-----------------------|
| <b>RF Mode</b>         | LTE Band 25<br>Channel Bandwidth: 20MHz | <b>Channel</b>                           | CH 26365 : 1882.5 MHz |
| <b>Frequency Range</b> | 1 GHz ~ 20 GHz                          | <b>Detector Function &amp; Bandwidth</b> | 1 MHz/3 MHz (RMS)     |
| <b>Input Power</b>     | 120 Vac, 60 Hz                          | <b>Environmental Conditions</b>          | 23 °C, 67 % RH        |
| <b>Tested By</b>       | Karl Lee                                |                                          |                       |

| Antenna Polarity & Test Distance : Horizontal at 3 m |                 |            |             |             |                    |                      |                  |                          |
|------------------------------------------------------|-----------------|------------|-------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No                                                   | Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | 3765.00         | -49.68     | -13.00      | -36.68      | 2.83 H             | 220                  | 45.41            | -95.09                   |
| Antenna Polarity & Test Distance : Vertical at 3 m   |                 |            |             |             |                    |                      |                  |                          |
| No                                                   | Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | 3765.00         | -49.38     | -13.00      | -36.38      | 2.11 V             | 106                  | 45.71            | -95.09                   |

**Remarks:**

1.  $EIRP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2.  $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8$
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit.

|                        |                                         |                                          |                     |
|------------------------|-----------------------------------------|------------------------------------------|---------------------|
| <b>RF Mode</b>         | LTE Band 25<br>Channel Bandwidth: 20MHz | <b>Channel</b>                           | CH 26590 : 1905 MHz |
| <b>Frequency Range</b> | 1 GHz ~ 20 GHz                          | <b>Detector Function &amp; Bandwidth</b> | 1 MHz/3 MHz (RMS)   |
| <b>Input Power</b>     | 120 Vac, 60 Hz                          | <b>Environmental Conditions</b>          | 23 °C, 67 % RH      |
| <b>Tested By</b>       | Karl Lee                                |                                          |                     |

| Antenna Polarity & Test Distance : Horizontal at 3 m |                 |            |             |             |                    |                      |                  |                          |
|------------------------------------------------------|-----------------|------------|-------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No                                                   | Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | 3810.00         | -49.31     | -13.00      | -36.31      | 1.22 H             | 342                  | 45.64            | -94.95                   |
| Antenna Polarity & Test Distance : Vertical at 3 m   |                 |            |             |             |                    |                      |                  |                          |
| No                                                   | Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | 3810.00         | -49.12     | -13.00      | -36.12      | 2.28 V             | 151                  | 45.83            | -94.95                   |

**Remarks:**

1.  $EIRP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2.  $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8$
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit.

### 7.7.7 LTE Band 26 (814 MHz ~ 824 MHz)

|                        |                                                              |                                          |                      |
|------------------------|--------------------------------------------------------------|------------------------------------------|----------------------|
| <b>RF Mode</b>         | LTE Band 26 (814 MHz ~ 824 MHz)<br>Channel Bandwidth: 1.4MHz | <b>Channel</b>                           | CH 26697 : 814.7 MHz |
| <b>Frequency Range</b> | 1 GHz ~ 18 GHz                                               | <b>Detector Function &amp; Bandwidth</b> | 1 MHz/3 MHz (RMS)    |
| <b>Input Power</b>     | 120 Vac, 60 Hz                                               | <b>Environmental Conditions</b>          | 23 °C, 67 % RH       |
| <b>Tested By</b>       | Karl Lee                                                     |                                          |                      |

| Antenna Polarity & Test Distance : Horizontal at 3 m |                 |           |             |             |                    |                      |                  |                          |
|------------------------------------------------------|-----------------|-----------|-------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No                                                   | Frequency (MHz) | ERP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | 1629.40         | -58.70    | -13.00      | -45.70      | 1.43 H             | 37                   | 45.19            | -103.89                  |
| 2                                                    | 2444.10         | -54.07    | -13.00      | -41.07      | 1.85 H             | 132                  | 46.95            | -101.02                  |
| Antenna Polarity & Test Distance : Vertical at 3 m   |                 |           |             |             |                    |                      |                  |                          |
| No                                                   | Frequency (MHz) | ERP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | 1629.40         | -57.46    | -13.00      | -44.46      | 1.95 V             | 336                  | 46.43            | -103.89                  |
| 2                                                    | 2444.10         | -51.65    | -13.00      | -38.65      | 1.56 V             | 174                  | 49.37            | -101.02                  |

#### Remarks:

- ERP(dBm) = Raw Value(dBuV) + Correction Factor(dB/m)
- Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)  
+ 20log(D) – 104.8 – 2.15
- Margin value = ERP – Limit value
- The other ERP levels were very low against the limit.

|                        |                                                              |                                          |                    |
|------------------------|--------------------------------------------------------------|------------------------------------------|--------------------|
| <b>RF Mode</b>         | LTE Band 26 (814 MHz ~ 824 MHz)<br>Channel Bandwidth: 1.4MHz | <b>Channel</b>                           | CH 26740 : 819 MHz |
| <b>Frequency Range</b> | 1 GHz ~ 18 GHz                                               | <b>Detector Function &amp; Bandwidth</b> | 1 MHz/3 MHz (RMS)  |
| <b>Input Power</b>     | 120 Vac, 60 Hz                                               | <b>Environmental Conditions</b>          | 23 °C, 67 % RH     |
| <b>Tested By</b>       | Karl Lee                                                     |                                          |                    |

| Antenna Polarity & Test Distance : Horizontal at 3 m |                 |           |             |             |                    |                      |                  |                          |
|------------------------------------------------------|-----------------|-----------|-------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No                                                   | Frequency (MHz) | ERP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | 1638.00         | -54.85    | -13.00      | -41.85      | 1.77 H             | 146                  | 49.02            | -103.87                  |
| 2                                                    | 2457.00         | -51.51    | -13.00      | -38.51      | 1.61 H             | 245                  | 49.50            | -101.01                  |
| Antenna Polarity & Test Distance : Vertical at 3 m   |                 |           |             |             |                    |                      |                  |                          |
| No                                                   | Frequency (MHz) | ERP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | 1638.00         | -55.62    | -13.00      | -42.62      | 2.57 V             | 162                  | 48.25            | -103.87                  |
| 2                                                    | 2457.00         | -48.87    | -13.00      | -35.87      | 1.42 V             | 203                  | 52.14            | -101.01                  |

**Remarks:**

1.  $ERP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2.  $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8 - 2.15$
3. Margin value = ERP – Limit value
4. The other ERP levels were very low against the limit.

|                        |                                                              |                                          |                      |
|------------------------|--------------------------------------------------------------|------------------------------------------|----------------------|
| <b>RF Mode</b>         | LTE Band 26 (814 MHz ~ 824 MHz)<br>Channel Bandwidth: 1.4MHz | <b>Channel</b>                           | CH 26783 : 823.3 MHz |
| <b>Frequency Range</b> | 1 GHz ~ 18 GHz                                               | <b>Detector Function &amp; Bandwidth</b> | 1 MHz/3 MHz (RMS)    |
| <b>Input Power</b>     | 120 Vac, 60 Hz                                               | <b>Environmental Conditions</b>          | 23 °C, 67 % RH       |
| <b>Tested By</b>       | Karl Lee                                                     |                                          |                      |

| Antenna Polarity & Test Distance : Horizontal at 3 m |                 |           |             |             |                    |                      |                  |                          |
|------------------------------------------------------|-----------------|-----------|-------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No                                                   | Frequency (MHz) | ERP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | 1646.60         | -56.07    | -13.00      | -43.07      | 1.59 H             | 296                  | 47.79            | -103.86                  |
| 2                                                    | 2469.90         | -49.56    | -13.00      | -36.56      | 1.76 H             | 125                  | 51.42            | -100.98                  |
| Antenna Polarity & Test Distance : Vertical at 3 m   |                 |           |             |             |                    |                      |                  |                          |
| No                                                   | Frequency (MHz) | ERP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | 1646.60         | -56.82    | -13.00      | -43.82      | 2.14 V             | 115                  | 47.04            | -103.86                  |
| 2                                                    | 2469.90         | -48.22    | -13.00      | -35.22      | 1.88 V             | 152                  | 52.76            | -100.98                  |

**Remarks:**

1.  $ERP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2.  $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8 - 2.15$
3. Margin value = ERP – Limit value
4. The other ERP levels were very low against the limit.

|                        |                                                            |                                          |                      |
|------------------------|------------------------------------------------------------|------------------------------------------|----------------------|
| <b>RF Mode</b>         | LTE Band 26 (814 MHz ~ 824 MHz)<br>Channel Bandwidth: 5MHz | <b>Channel</b>                           | CH 26715 : 816.5 MHz |
| <b>Frequency Range</b> | 1 GHz ~ 18 GHz                                             | <b>Detector Function &amp; Bandwidth</b> | 1 MHz/3 MHz (RMS)    |
| <b>Input Power</b>     | 120 Vac, 60 Hz                                             | <b>Environmental Conditions</b>          | 23 °C, 67 % RH       |
| <b>Tested By</b>       | Karl Lee                                                   |                                          |                      |

| Antenna Polarity & Test Distance : Horizontal at 3 m |                 |           |             |             |                    |                      |                  |                          |
|------------------------------------------------------|-----------------|-----------|-------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No                                                   | Frequency (MHz) | ERP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | 1633.00         | -56.06    | -13.00      | -43.06      | 2.71 H             | 134                  | 47.82            | -103.88                  |
| 2                                                    | 2449.50         | -53.00    | -13.00      | -40.00      | 2.44 H             | 71                   | 48.03            | -101.03                  |
| Antenna Polarity & Test Distance : Vertical at 3 m   |                 |           |             |             |                    |                      |                  |                          |
| No                                                   | Frequency (MHz) | ERP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | 1633.00         | -56.30    | -13.00      | -43.30      | 2.96 V             | 104                  | 47.58            | -103.88                  |
| 2                                                    | 2449.50         | -41.48    | -13.00      | -28.48      | 2.01 V             | 150                  | 59.55            | -101.03                  |

**Remarks:**

1.  $ERP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2.  $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB)$   
 $+ 20\log(D) - 104.8 - 2.15$
3. Margin value = ERP – Limit value
4. The other ERP levels were very low against the limit.

|                        |                                                            |                                          |                    |
|------------------------|------------------------------------------------------------|------------------------------------------|--------------------|
| <b>RF Mode</b>         | LTE Band 26 (814 MHz ~ 824 MHz)<br>Channel Bandwidth: 5MHz | <b>Channel</b>                           | CH 26740 : 819 MHz |
| <b>Frequency Range</b> | 1 GHz ~ 18 GHz                                             | <b>Detector Function &amp; Bandwidth</b> | 1 MHz/3 MHz (RMS)  |
| <b>Input Power</b>     | 120 Vac, 60 Hz                                             | <b>Environmental Conditions</b>          | 23 °C, 67 % RH     |
| <b>Tested By</b>       | Karl Lee                                                   |                                          |                    |

| Antenna Polarity & Test Distance : Horizontal at 3 m |                 |           |             |             |                    |                      |                  |                          |
|------------------------------------------------------|-----------------|-----------|-------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No                                                   | Frequency (MHz) | ERP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | 1638.00         | -56.95    | -13.00      | -43.95      | 2.47 H             | 184                  | 46.92            | -103.87                  |
| 2                                                    | 2457.00         | -52.34    | -13.00      | -39.34      | 1.42 H             | 74                   | 48.67            | -101.01                  |
| Antenna Polarity & Test Distance : Vertical at 3 m   |                 |           |             |             |                    |                      |                  |                          |
| No                                                   | Frequency (MHz) | ERP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | 1638.00         | -55.40    | -13.00      | -42.40      | 1.26 V             | 274                  | 48.47            | -103.87                  |
| 2                                                    | 2457.00         | -49.35    | -13.00      | -36.35      | 1.41 V             | 209                  | 51.66            | -101.01                  |

**Remarks:**

1.  $ERP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2.  $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8 - 2.15$
3. Margin value = ERP – Limit value
4. The other ERP levels were very low against the limit.

|                        |                                                            |                                          |                      |
|------------------------|------------------------------------------------------------|------------------------------------------|----------------------|
| <b>RF Mode</b>         | LTE Band 26 (814 MHz ~ 824 MHz)<br>Channel Bandwidth: 5MHz | <b>Channel</b>                           | CH 26765 : 821.5 MHz |
| <b>Frequency Range</b> | 1 GHz ~ 18 GHz                                             | <b>Detector Function &amp; Bandwidth</b> | 1 MHz/3 MHz (RMS)    |
| <b>Input Power</b>     | 120 Vac, 60 Hz                                             | <b>Environmental Conditions</b>          | 23 °C, 67 % RH       |
| <b>Tested By</b>       | Karl Lee                                                   |                                          |                      |

| Antenna Polarity & Test Distance : Horizontal at 3 m |                 |           |             |             |                    |                      |                  |                          |
|------------------------------------------------------|-----------------|-----------|-------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No                                                   | Frequency (MHz) | ERP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | 1643.00         | -55.76    | -13.00      | -42.76      | 1.22 H             | 59                   | 48.10            | -103.86                  |
| 2                                                    | 2464.50         | -51.95    | -13.00      | -38.95      | 1.64 H             | 228                  | 49.05            | -101.00                  |
| Antenna Polarity & Test Distance : Vertical at 3 m   |                 |           |             |             |                    |                      |                  |                          |
| No                                                   | Frequency (MHz) | ERP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | 1643.00         | -55.58    | -13.00      | -42.58      | 1.57 V             | 132                  | 48.28            | -103.86                  |
| 2                                                    | 2464.50         | -48.20    | -13.00      | -35.20      | 1.96 V             | 152                  | 52.80            | -101.00                  |

**Remarks:**

1.  $ERP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2.  $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8 - 2.15$
3. Margin value = ERP – Limit value
4. The other ERP levels were very low against the limit.



|                        |                                                             |                                          |                    |
|------------------------|-------------------------------------------------------------|------------------------------------------|--------------------|
| <b>RF Mode</b>         | LTE Band 26 (814 MHz ~ 824 MHz)<br>Channel Bandwidth: 10MHz | <b>Channel</b>                           | CH 26740 : 819 MHz |
| <b>Frequency Range</b> | 1 GHz ~ 18 GHz                                              | <b>Detector Function &amp; Bandwidth</b> | 1 MHz/3 MHz (RMS)  |
| <b>Input Power</b>     | 120 Vac, 60 Hz                                              | <b>Environmental Conditions</b>          | 23 °C, 67 % RH     |
| <b>Tested By</b>       | Karl Lee                                                    |                                          |                    |

| Antenna Polarity & Test Distance : Horizontal at 3 m |                 |           |             |             |                    |                      |                  |                          |
|------------------------------------------------------|-----------------|-----------|-------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No                                                   | Frequency (MHz) | ERP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | 1638.00         | -58.09    | -13.00      | -45.09      | 1.64 H             | 298                  | 45.78            | -103.87                  |
| 2                                                    | 2457.00         | -51.80    | -13.00      | -38.80      | 1.48 H             | 293                  | 49.21            | -101.01                  |
| Antenna Polarity & Test Distance : Vertical at 3 m   |                 |           |             |             |                    |                      |                  |                          |
| No                                                   | Frequency (MHz) | ERP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | 1638.00         | -55.34    | -13.00      | -42.34      | 1.59 V             | 175                  | 48.53            | -103.87                  |
| 2                                                    | 2457.00         | -48.99    | -13.00      | -35.99      | 1.66 V             | 148                  | 52.02            | -101.01                  |

**Remarks:**

1.  $ERP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2.  $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8 - 2.15$
3. Margin value = ERP – Limit value
4. The other ERP levels were very low against the limit.

### 7.7.8 LTE Band 26 (824 MHz ~ 849 MHz)

|                        |                                                              |                                          |                      |
|------------------------|--------------------------------------------------------------|------------------------------------------|----------------------|
| <b>RF Mode</b>         | LTE Band 26 (824 MHz ~ 849 MHz)<br>Channel Bandwidth: 1.4MHz | <b>Channel</b>                           | CH 26797 : 824.7 MHz |
| <b>Frequency Range</b> | 1 GHz ~ 18 GHz                                               | <b>Detector Function &amp; Bandwidth</b> | 1 MHz/3 MHz (RMS)    |
| <b>Input Power</b>     | 120 Vac, 60 Hz                                               | <b>Environmental Conditions</b>          | 23 °C, 67 % RH       |
| <b>Tested By</b>       | Karl Lee                                                     |                                          |                      |

| Antenna Polarity & Test Distance : Horizontal at 3 m |                 |           |             |             |                    |                      |                  |                          |
|------------------------------------------------------|-----------------|-----------|-------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No                                                   | Frequency (MHz) | ERP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | 1649.40         | -57.08    | -13.00      | -44.08      | 1.12 H             | 184                  | 46.77            | -103.85                  |
| 2                                                    | 2474.10         | -51.99    | -13.00      | -38.99      | 1.83 H             | 153                  | 48.98            | -100.97                  |
| Antenna Polarity & Test Distance : Vertical at 3 m   |                 |           |             |             |                    |                      |                  |                          |
| No                                                   | Frequency (MHz) | ERP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | 1649.40         | -55.89    | -13.00      | -42.89      | 2.36 V             | 174                  | 47.96            | -103.85                  |
| 2                                                    | 2474.10         | -41.27    | -13.00      | -28.27      | 1.35 V             | 269                  | 59.70            | -100.97                  |

#### Remarks:

1.  $ERP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2.  $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8 - 2.15$
3. Margin value = ERP – Limit value
4. The other ERP levels were very low against the limit.

|                        |                                                              |                                          |                      |
|------------------------|--------------------------------------------------------------|------------------------------------------|----------------------|
| <b>RF Mode</b>         | LTE Band 26 (824 MHz ~ 849 MHz)<br>Channel Bandwidth: 1.4MHz | <b>Channel</b>                           | CH 26915 : 836.5 MHz |
| <b>Frequency Range</b> | 1 GHz ~ 18 GHz                                               | <b>Detector Function &amp; Bandwidth</b> | 1 MHz/3 MHz (RMS)    |
| <b>Input Power</b>     | 120 Vac, 60 Hz                                               | <b>Environmental Conditions</b>          | 23 °C, 67 % RH       |
| <b>Tested By</b>       | Karl Lee                                                     |                                          |                      |

| Antenna Polarity & Test Distance : Horizontal at 3 m |                 |           |             |             |                    |                      |                  |                          |
|------------------------------------------------------|-----------------|-----------|-------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No                                                   | Frequency (MHz) | ERP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | 1673.00         | -53.21    | -13.00      | -40.21      | 1.12 H             | 194                  | 50.64            | -103.85                  |
| 2                                                    | 2509.50         | -51.79    | -13.00      | -38.79      | 1.51 H             | 175                  | 49.08            | -100.87                  |
| Antenna Polarity & Test Distance : Vertical at 3 m   |                 |           |             |             |                    |                      |                  |                          |
| No                                                   | Frequency (MHz) | ERP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | 1673.00         | -49.37    | -13.00      | -36.37      | 1.38 V             | 175                  | 54.48            | -103.85                  |
| 2                                                    | 2509.50         | -35.86    | -13.00      | -22.86      | 2.69 V             | 152                  | 65.01            | -100.87                  |

**Remarks:**

1.  $ERP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2.  $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8 - 2.15$
3. Margin value = ERP – Limit value
4. The other ERP levels were very low against the limit.

|                        |                                                              |                                          |                      |
|------------------------|--------------------------------------------------------------|------------------------------------------|----------------------|
| <b>RF Mode</b>         | LTE Band 26 (824 MHz ~ 849 MHz)<br>Channel Bandwidth: 1.4MHz | <b>Channel</b>                           | CH 27033 : 848.3 MHz |
| <b>Frequency Range</b> | 1 GHz ~ 18 GHz                                               | <b>Detector Function &amp; Bandwidth</b> | 1 MHz/3 MHz (RMS)    |
| <b>Input Power</b>     | 120 Vac, 60 Hz                                               | <b>Environmental Conditions</b>          | 23 °C, 67 % RH       |
| <b>Tested By</b>       | Karl Lee                                                     |                                          |                      |

| Antenna Polarity & Test Distance : Horizontal at 3 m |                 |           |             |             |                    |                      |                  |                          |
|------------------------------------------------------|-----------------|-----------|-------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No                                                   | Frequency (MHz) | ERP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | 1696.60         | -53.76    | -13.00      | -40.76      | 1.06 H             | 182                  | 50.09            | -103.85                  |
| 2                                                    | 2544.90         | -52.51    | -13.00      | -39.51      | 1.27 H             | 168                  | 48.25            | -100.76                  |
| Antenna Polarity & Test Distance : Vertical at 3 m   |                 |           |             |             |                    |                      |                  |                          |
| No                                                   | Frequency (MHz) | ERP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | 1696.60         | -51.30    | -13.00      | -38.30      | 1.76 V             | 151                  | 52.55            | -103.85                  |
| 2                                                    | 2544.90         | -43.69    | -13.00      | -30.69      | 1.41 V             | 284                  | 57.07            | -100.76                  |

**Remarks:**

1.  $ERP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2.  $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8 - 2.15$
3. Margin value = ERP – Limit value
4. The other ERP levels were very low against the limit.

|                        |                                                            |                                          |                      |
|------------------------|------------------------------------------------------------|------------------------------------------|----------------------|
| <b>RF Mode</b>         | LTE Band 26 (824 MHz ~ 849 MHz)<br>Channel Bandwidth: 5MHz | <b>Channel</b>                           | CH 26815 : 826.5 MHz |
| <b>Frequency Range</b> | 1 GHz ~ 18 GHz                                             | <b>Detector Function &amp; Bandwidth</b> | 1 MHz/3 MHz (RMS)    |
| <b>Input Power</b>     | 120 Vac, 60 Hz                                             | <b>Environmental Conditions</b>          | 23 °C, 67 % RH       |
| <b>Tested By</b>       | Karl Lee                                                   |                                          |                      |

| Antenna Polarity & Test Distance : Horizontal at 3 m |                 |           |             |             |                    |                      |                  |                          |
|------------------------------------------------------|-----------------|-----------|-------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No                                                   | Frequency (MHz) | ERP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | 1653.00         | -57.03    | -13.00      | -44.03      | 1.50 H             | 341                  | 46.81            | -103.84                  |
| 2                                                    | 2479.50         | -50.87    | -13.00      | -37.87      | 2.12 H             | 73                   | 50.08            | -100.95                  |
| Antenna Polarity & Test Distance : Vertical at 3 m   |                 |           |             |             |                    |                      |                  |                          |
| No                                                   | Frequency (MHz) | ERP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | 1653.00         | -56.57    | -13.00      | -43.57      | 2.11 V             | 173                  | 47.27            | -103.84                  |
| 2                                                    | 2479.50         | -44.72    | -13.00      | -31.72      | 1.65 V             | 81                   | 56.23            | -100.95                  |

**Remarks:**

1.  $ERP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2.  $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8 - 2.15$
3. Margin value = ERP – Limit value
4. The other ERP levels were very low against the limit.

|                        |                                                            |                                          |                      |
|------------------------|------------------------------------------------------------|------------------------------------------|----------------------|
| <b>RF Mode</b>         | LTE Band 26 (824 MHz ~ 849 MHz)<br>Channel Bandwidth: 5MHz | <b>Channel</b>                           | CH 26915 : 836.5 MHz |
| <b>Frequency Range</b> | 1 GHz ~ 18 GHz                                             | <b>Detector Function &amp; Bandwidth</b> | 1 MHz/3 MHz (RMS)    |
| <b>Input Power</b>     | 120 Vac, 60 Hz                                             | <b>Environmental Conditions</b>          | 23 °C, 67 % RH       |
| <b>Tested By</b>       | Karl Lee                                                   |                                          |                      |

| Antenna Polarity & Test Distance : Horizontal at 3 m |                 |           |             |             |                    |                      |                  |                          |
|------------------------------------------------------|-----------------|-----------|-------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No                                                   | Frequency (MHz) | ERP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | 1673.00         | -54.21    | -13.00      | -41.21      | 1.92 H             | 55                   | 49.64            | -103.85                  |
| 2                                                    | 2509.50         | -51.21    | -13.00      | -38.21      | 2.01 H             | 46                   | 49.66            | -100.87                  |
| Antenna Polarity & Test Distance : Vertical at 3 m   |                 |           |             |             |                    |                      |                  |                          |
| No                                                   | Frequency (MHz) | ERP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | 1673.00         | -52.96    | -13.00      | -39.96      | 2.35 V             | 181                  | 50.89            | -103.85                  |
| 2                                                    | 2509.50         | -45.26    | -13.00      | -32.26      | 2.64 V             | 251                  | 55.61            | -100.87                  |

**Remarks:**

1.  $ERP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2.  $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8 - 2.15$
3. Margin value = ERP – Limit value
4. The other ERP levels were very low against the limit.

|                        |                                                            |                                          |                      |
|------------------------|------------------------------------------------------------|------------------------------------------|----------------------|
| <b>RF Mode</b>         | LTE Band 26 (824 MHz ~ 849 MHz)<br>Channel Bandwidth: 5MHz | <b>Channel</b>                           | CH 27015 : 846.5 MHz |
| <b>Frequency Range</b> | 1 GHz ~ 18 GHz                                             | <b>Detector Function &amp; Bandwidth</b> | 1 MHz/3 MHz (RMS)    |
| <b>Input Power</b>     | 120 Vac, 60 Hz                                             | <b>Environmental Conditions</b>          | 23 °C, 67 % RH       |
| <b>Tested By</b>       | Karl Lee                                                   |                                          |                      |

| Antenna Polarity & Test Distance : Horizontal at 3 m |                 |           |             |             |                    |                      |                  |                          |
|------------------------------------------------------|-----------------|-----------|-------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No                                                   | Frequency (MHz) | ERP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | 1693.00         | -52.90    | -13.00      | -39.90      | 2.45 H             | 116                  | 50.93            | -103.83                  |
| 2                                                    | 2539.50         | -53.85    | -13.00      | -40.85      | 2.22 H             | 88                   | 46.92            | -100.77                  |
| Antenna Polarity & Test Distance : Vertical at 3 m   |                 |           |             |             |                    |                      |                  |                          |
| No                                                   | Frequency (MHz) | ERP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | 1693.00         | -52.17    | -13.00      | -39.17      | 1.48 V             | 128                  | 51.66            | -103.83                  |
| 2                                                    | 2539.50         | -46.55    | -13.00      | -33.55      | 1.83 V             | 79                   | 54.22            | -100.77                  |

**Remarks:**

1.  $ERP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2.  $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8 - 2.15$
3. Margin value = ERP – Limit value
4. The other ERP levels were very low against the limit.

|                        |                                                             |                                          |                      |
|------------------------|-------------------------------------------------------------|------------------------------------------|----------------------|
| <b>RF Mode</b>         | LTE Band 26 (824 MHz ~ 849 MHz)<br>Channel Bandwidth: 15MHz | <b>Channel</b>                           | CH 26865 : 831.5 MHz |
| <b>Frequency Range</b> | 1 GHz ~ 18 GHz                                              | <b>Detector Function &amp; Bandwidth</b> | 1 MHz/3 MHz (RMS)    |
| <b>Input Power</b>     | 120 Vac, 60 Hz                                              | <b>Environmental Conditions</b>          | 23 °C, 67 % RH       |
| <b>Tested By</b>       | Karl Lee                                                    |                                          |                      |

| Antenna Polarity & Test Distance : Horizontal at 3 m |                 |           |             |             |                    |                      |                  |                          |
|------------------------------------------------------|-----------------|-----------|-------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No                                                   | Frequency (MHz) | ERP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | 1663.00         | -54.95    | -13.00      | -41.95      | 2.20 H             | 61                   | 48.90            | -103.85                  |
| 2                                                    | 2494.50         | -52.17    | -13.00      | -39.17      | 1.92 H             | 159                  | 48.75            | -100.92                  |
| Antenna Polarity & Test Distance : Vertical at 3 m   |                 |           |             |             |                    |                      |                  |                          |
| No                                                   | Frequency (MHz) | ERP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | 1663.00         | -55.25    | -13.00      | -42.25      | 1.10 V             | 249                  | 48.60            | -103.85                  |
| 2                                                    | 2494.50         | -44.86    | -13.00      | -31.86      | 1.74 V             | 255                  | 56.06            | -100.92                  |

**Remarks:**

- ERP(dBm) = Raw Value(dBuV) + Correction Factor(dB/m)
- Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)  
+ 20log(D) – 104.8 – 2.15
- Margin value = ERP – Limit value
- The other ERP levels were very low against the limit.



|                        |                                                             |                                          |                      |
|------------------------|-------------------------------------------------------------|------------------------------------------|----------------------|
| <b>RF Mode</b>         | LTE Band 26 (824 MHz ~ 849 MHz)<br>Channel Bandwidth: 15MHz | <b>Channel</b>                           | CH 26915 : 836.5 MHz |
| <b>Frequency Range</b> | 1 GHz ~ 18 GHz                                              | <b>Detector Function &amp; Bandwidth</b> | 1 MHz/3 MHz (RMS)    |
| <b>Input Power</b>     | 120 Vac, 60 Hz                                              | <b>Environmental Conditions</b>          | 23 °C, 67 % RH       |
| <b>Tested By</b>       | Karl Lee                                                    |                                          |                      |

| Antenna Polarity & Test Distance : Horizontal at 3 m |                 |           |             |             |                    |                      |                  |                          |
|------------------------------------------------------|-----------------|-----------|-------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No                                                   | Frequency (MHz) | ERP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | 1673.00         | -54.78    | -13.00      | -41.78      | 1.25 H             | 346                  | 49.07            | -103.85                  |
| 2                                                    | 2509.50         | -51.38    | -13.00      | -38.38      | 1.42 H             | 53                   | 49.49            | -100.87                  |
| Antenna Polarity & Test Distance : Vertical at 3 m   |                 |           |             |             |                    |                      |                  |                          |
| No                                                   | Frequency (MHz) | ERP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | 1673.00         | -53.00    | -13.00      | -40.00      | 2.11 V             | 224                  | 50.85            | -103.85                  |
| 2                                                    | 2509.50         | -45.94    | -13.00      | -32.94      | 1.73 V             | 294                  | 54.93            | -100.87                  |

**Remarks:**

1.  $ERP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2.  $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8 - 2.15$
3. Margin value = ERP – Limit value
4. The other ERP levels were very low against the limit.

|                        |                                                             |                                          |                      |
|------------------------|-------------------------------------------------------------|------------------------------------------|----------------------|
| <b>RF Mode</b>         | LTE Band 26 (824 MHz ~ 849 MHz)<br>Channel Bandwidth: 15MHz | <b>Channel</b>                           | CH 26965 : 841.5 MHz |
| <b>Frequency Range</b> | 1 GHz ~ 18 GHz                                              | <b>Detector Function &amp; Bandwidth</b> | 1 MHz/3 MHz (RMS)    |
| <b>Input Power</b>     | 120 Vac, 60 Hz                                              | <b>Environmental Conditions</b>          | 23 °C, 67 % RH       |
| <b>Tested By</b>       | Karl Lee                                                    |                                          |                      |

| Antenna Polarity & Test Distance : Horizontal at 3 m |                 |           |             |             |                    |                      |                  |                          |
|------------------------------------------------------|-----------------|-----------|-------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No                                                   | Frequency (MHz) | ERP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | 1683.00         | -56.86    | -13.00      | -43.86      | 1.25 H             | 241                  | 46.99            | -103.85                  |
| 2                                                    | 2524.50         | -52.76    | -13.00      | -39.76      | 2.78 H             | 141                  | 48.06            | -100.82                  |
| Antenna Polarity & Test Distance : Vertical at 3 m   |                 |           |             |             |                    |                      |                  |                          |
| No                                                   | Frequency (MHz) | ERP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | 1683.00         | -55.06    | -13.00      | -42.06      | 2.55 V             | 91                   | 48.79            | -103.85                  |
| 2                                                    | 2524.50         | -46.59    | -13.00      | -33.59      | 1.26 V             | 137                  | 54.23            | -100.82                  |

**Remarks:**

1.  $ERP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2.  $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB)$   
 $+ 20\log(D) - 104.8 - 2.15$
3. Margin value = ERP – Limit value
4. The other ERP levels were very low against the limit.

### 7.7.9 LTE Band 38

|                        |                                        |                                          |                       |
|------------------------|----------------------------------------|------------------------------------------|-----------------------|
| <b>RF Mode</b>         | LTE Band 38<br>Channel Bandwidth: 5MHz | <b>Channel</b>                           | CH 37775 : 2572.5 MHz |
| <b>Frequency Range</b> | 1 GHz ~ 27 GHz                         | <b>Detector Function &amp; Bandwidth</b> | 1 MHz/3 MHz (RMS)     |
| <b>Input Power</b>     | 120 Vac, 60 Hz                         | <b>Environmental Conditions</b>          | 23 °C, 67 % RH        |
| <b>Tested By</b>       | Karl Lee                               |                                          |                       |

| Antenna Polarity & Test Distance : Horizontal at 3 m |                 |            |             |             |                    |                      |                  |                          |
|------------------------------------------------------|-----------------|------------|-------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No                                                   | Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | 5145.00         | -46.48     | -25.00      | -21.48      | 1.75 H             | 335                  | 46.02            | -92.50                   |
| Antenna Polarity & Test Distance : Vertical at 3 m   |                 |            |             |             |                    |                      |                  |                          |
| No                                                   | Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | 5145.00         | -47.09     | -25.00      | -22.09      | 1.36 V             | 265                  | 45.41            | -92.50                   |

#### Remarks:

1.  $EIRP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2.  $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8$
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit.

|                        |                                        |                                          |                     |
|------------------------|----------------------------------------|------------------------------------------|---------------------|
| <b>RF Mode</b>         | LTE Band 38<br>Channel Bandwidth: 5MHz | <b>Channel</b>                           | CH 38000 : 2595 MHz |
| <b>Frequency Range</b> | 1 GHz ~ 27 GHz                         | <b>Detector Function &amp; Bandwidth</b> | 1 MHz/3 MHz (RMS)   |
| <b>Input Power</b>     | 120 Vac, 60 Hz                         | <b>Environmental Conditions</b>          | 23 °C, 67 % RH      |
| <b>Tested By</b>       | Karl Lee                               |                                          |                     |

| Antenna Polarity & Test Distance : Horizontal at 3 m |                 |            |             |             |                    |                      |                  |                          |
|------------------------------------------------------|-----------------|------------|-------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No                                                   | Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | 5190.00         | -47.34     | -25.00      | -22.34      | 2.58 H             | 224                  | 45.33            | -92.67                   |
| Antenna Polarity & Test Distance : Vertical at 3 m   |                 |            |             |             |                    |                      |                  |                          |
| No                                                   | Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | 5190.00         | -47.14     | -25.00      | -22.14      | 1.63 V             | 150                  | 45.53            | -92.67                   |

**Remarks:**

1.  $EIRP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2.  $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8$
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit.

|                        |                                        |                                          |                       |
|------------------------|----------------------------------------|------------------------------------------|-----------------------|
| <b>RF Mode</b>         | LTE Band 38<br>Channel Bandwidth: 5MHz | <b>Channel</b>                           | CH 38225 : 2617.5 MHz |
| <b>Frequency Range</b> | 1 GHz ~ 27 GHz                         | <b>Detector Function &amp; Bandwidth</b> | 1 MHz/3 MHz (RMS)     |
| <b>Input Power</b>     | 120 Vac, 60 Hz                         | <b>Environmental Conditions</b>          | 23 °C, 67 % RH        |
| <b>Tested By</b>       | Karl Lee                               |                                          |                       |

| Antenna Polarity & Test Distance : Horizontal at 3 m |                 |            |             |             |                    |                      |                  |                          |
|------------------------------------------------------|-----------------|------------|-------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No                                                   | Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | 5235.00         | -46.92     | -25.00      | -21.92      | 1.30 H             | 315                  | 45.83            | -92.75                   |
| Antenna Polarity & Test Distance : Vertical at 3 m   |                 |            |             |             |                    |                      |                  |                          |
| No                                                   | Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | 5235.00         | -47.18     | -25.00      | -22.18      | 2.04 V             | 211                  | 45.57            | -92.75                   |

**Remarks:**

1.  $EIRP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2.  $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8$
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit.

|                        |                                         |                                          |                     |
|------------------------|-----------------------------------------|------------------------------------------|---------------------|
| <b>RF Mode</b>         | LTE Band 38<br>Channel Bandwidth: 20MHz | <b>Channel</b>                           | CH 37850 : 2580 MHz |
| <b>Frequency Range</b> | 1 GHz ~ 27 GHz                          | <b>Detector Function &amp; Bandwidth</b> | 1 MHz/3 MHz (RMS)   |
| <b>Input Power</b>     | 120 Vac, 60 Hz                          | <b>Environmental Conditions</b>          | 23 °C, 67 % RH      |
| <b>Tested By</b>       | Karl Lee                                |                                          |                     |

| Antenna Polarity & Test Distance : Horizontal at 3 m |                 |            |             |             |                    |                      |                  |                          |
|------------------------------------------------------|-----------------|------------|-------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No                                                   | Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | 5160.00         | -47.22     | -25.00      | -22.22      | 1.83 H             | 112                  | 45.33            | -92.55                   |
| Antenna Polarity & Test Distance : Vertical at 3 m   |                 |            |             |             |                    |                      |                  |                          |
| No                                                   | Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | 5160.00         | -46.79     | -25.00      | -21.79      | 1.29 V             | 231                  | 45.76            | -92.55                   |

**Remarks:**

1.  $EIRP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2.  $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8$
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit.

|                        |                                         |                                          |                     |
|------------------------|-----------------------------------------|------------------------------------------|---------------------|
| <b>RF Mode</b>         | LTE Band 38<br>Channel Bandwidth: 20MHz | <b>Channel</b>                           | CH 38000 : 2595 MHz |
| <b>Frequency Range</b> | 1 GHz ~ 27 GHz                          | <b>Detector Function &amp; Bandwidth</b> | 1 MHz/3 MHz (RMS)   |
| <b>Input Power</b>     | 120 Vac, 60 Hz                          | <b>Environmental Conditions</b>          | 23 °C, 67 % RH      |
| <b>Tested By</b>       | Karl Lee                                |                                          |                     |

| Antenna Polarity & Test Distance : Horizontal at 3 m |                 |            |             |             |                    |                      |                  |                          |
|------------------------------------------------------|-----------------|------------|-------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No                                                   | Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | 5190.00         | -46.64     | -25.00      | -21.64      | 2.43 H             | 121                  | 46.03            | -92.67                   |
| Antenna Polarity & Test Distance : Vertical at 3 m   |                 |            |             |             |                    |                      |                  |                          |
| No                                                   | Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | 5190.00         | -47.21     | -25.00      | -22.21      | 1.84 V             | 61                   | 45.46            | -92.67                   |

**Remarks:**

1.  $EIRP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2.  $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8$
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit.

|                        |                                         |                                          |                     |
|------------------------|-----------------------------------------|------------------------------------------|---------------------|
| <b>RF Mode</b>         | LTE Band 38<br>Channel Bandwidth: 20MHz | <b>Channel</b>                           | CH 38150 : 2610 MHz |
| <b>Frequency Range</b> | 1 GHz ~ 27 GHz                          | <b>Detector Function &amp; Bandwidth</b> | 1 MHz/3 MHz (RMS)   |
| <b>Input Power</b>     | 120 Vac, 60 Hz                          | <b>Environmental Conditions</b>          | 23 °C, 67 % RH      |
| <b>Tested By</b>       | Karl Lee                                |                                          |                     |

| Antenna Polarity & Test Distance : Horizontal at 3 m |                 |            |             |             |                    |                      |                  |                          |
|------------------------------------------------------|-----------------|------------|-------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No                                                   | Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | 5220.00         | -46.96     | -25.00      | -21.96      | 2.15 H             | 128                  | 45.77            | -92.73                   |
| Antenna Polarity & Test Distance : Vertical at 3 m   |                 |            |             |             |                    |                      |                  |                          |
| No                                                   | Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | 5220.00         | -47.36     | -25.00      | -22.36      | 2.89 V             | 153                  | 45.37            | -92.73                   |

**Remarks:**

1.  $EIRP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2.  $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8$
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit.



## 7.7.10 LTE Band 41

|                        |                                        |                                          |                       |
|------------------------|----------------------------------------|------------------------------------------|-----------------------|
| <b>RF Mode</b>         | LTE Band 41<br>Channel Bandwidth: 5MHz | <b>Channel</b>                           | CH 39675 : 2498.5 MHz |
| <b>Frequency Range</b> | 1 GHz ~ 27 GHz                         | <b>Detector Function &amp; Bandwidth</b> | 1 MHz/3 MHz (RMS)     |
| <b>Input Power</b>     | 120 Vac, 60 Hz                         | <b>Environmental Conditions</b>          | 23 °C, 67 % RH        |
| <b>Tested By</b>       | Karl Lee                               |                                          |                       |

| Antenna Polarity & Test Distance : Horizontal at 3 m |                 |            |             |             |                    |                      |                  |                          |
|------------------------------------------------------|-----------------|------------|-------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No                                                   | Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | 4997.00         | -46.70     | -25.00      | -21.70      | 1.52 H             | 330                  | 46.09            | -92.79                   |
| Antenna Polarity & Test Distance : Vertical at 3 m   |                 |            |             |             |                    |                      |                  |                          |
| No                                                   | Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | 4997.00         | -47.11     | -25.00      | -22.11      | 2.21 V             | 218                  | 45.68            | -92.79                   |

**Remarks:**

1.  $EIRP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2.  $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8$
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit.

|                        |                                        |                                          |                     |
|------------------------|----------------------------------------|------------------------------------------|---------------------|
| <b>RF Mode</b>         | LTE Band 41<br>Channel Bandwidth: 5MHz | <b>Channel</b>                           | CH 40620 : 2593 MHz |
| <b>Frequency Range</b> | 1 GHz ~ 27 GHz                         | <b>Detector Function &amp; Bandwidth</b> | 1 MHz/3 MHz (RMS)   |
| <b>Input Power</b>     | 120 Vac, 60 Hz                         | <b>Environmental Conditions</b>          | 23 °C, 67 % RH      |
| <b>Tested By</b>       | Karl Lee                               |                                          |                     |

| Antenna Polarity & Test Distance : Horizontal at 3 m |                 |            |             |             |                    |                      |                  |                          |
|------------------------------------------------------|-----------------|------------|-------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No                                                   | Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | 5186.00         | -46.53     | -25.00      | -21.53      | 2.11 H             | 85                   | 46.13            | -92.66                   |
| Antenna Polarity & Test Distance : Vertical at 3 m   |                 |            |             |             |                    |                      |                  |                          |
| No                                                   | Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | 5186.00         | -47.31     | -25.00      | -22.31      | 1.77 V             | 241                  | 45.35            | -92.66                   |

**Remarks:**

1.  $EIRP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2.  $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8$
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit.

|                        |                                        |                                          |                       |
|------------------------|----------------------------------------|------------------------------------------|-----------------------|
| <b>RF Mode</b>         | LTE Band 41<br>Channel Bandwidth: 5MHz | <b>Channel</b>                           | CH 41565 : 2687.5 MHz |
| <b>Frequency Range</b> | 1 GHz ~ 27 GHz                         | <b>Detector Function &amp; Bandwidth</b> | 1 MHz/3 MHz (RMS)     |
| <b>Input Power</b>     | 120 Vac, 60 Hz                         | <b>Environmental Conditions</b>          | 23 °C, 67 % RH        |
| <b>Tested By</b>       | Karl Lee                               |                                          |                       |

| Antenna Polarity & Test Distance : Horizontal at 3 m |                 |            |             |             |                    |                      |                  |                          |
|------------------------------------------------------|-----------------|------------|-------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No                                                   | Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | 5375.00         | -46.42     | -25.00      | -21.42      | 1.85 H             | 151                  | 46.23            | -92.65                   |
| Antenna Polarity & Test Distance : Vertical at 3 m   |                 |            |             |             |                    |                      |                  |                          |
| No                                                   | Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | 5375.00         | -47.18     | -25.00      | -22.18      | 1.63 V             | 282                  | 45.47            | -92.65                   |

**Remarks:**

1.  $EIRP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2.  $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8$
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit.

|                        |                                         |                                          |                     |
|------------------------|-----------------------------------------|------------------------------------------|---------------------|
| <b>RF Mode</b>         | LTE Band 41<br>Channel Bandwidth: 20MHz | <b>Channel</b>                           | CH 39750 : 2506 MHz |
| <b>Frequency Range</b> | 1 GHz ~ 27 GHz                          | <b>Detector Function &amp; Bandwidth</b> | 1 MHz/3 MHz (RMS)   |
| <b>Input Power</b>     | 120 Vac, 60 Hz                          | <b>Environmental Conditions</b>          | 23 °C, 67 % RH      |
| <b>Tested By</b>       | Karl Lee                                |                                          |                     |

| Antenna Polarity & Test Distance : Horizontal at 3 m |                 |            |             |             |                    |                      |                  |                          |
|------------------------------------------------------|-----------------|------------|-------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No                                                   | Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | 5012.00         | -46.66     | -25.00      | -21.66      | 1.90 H             | 143                  | 46.10            | -92.76                   |
| Antenna Polarity & Test Distance : Vertical at 3 m   |                 |            |             |             |                    |                      |                  |                          |
| No                                                   | Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | 5012.00         | -47.21     | -25.00      | -22.21      | 1.77 V             | 259                  | 45.55            | -92.76                   |

**Remarks:**

1.  $EIRP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2.  $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8$
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit.

|                        |                                         |                                          |                     |
|------------------------|-----------------------------------------|------------------------------------------|---------------------|
| <b>RF Mode</b>         | LTE Band 41<br>Channel Bandwidth: 20MHz | <b>Channel</b>                           | CH 40620 : 2593 MHz |
| <b>Frequency Range</b> | 1 GHz ~ 27 GHz                          | <b>Detector Function &amp; Bandwidth</b> | 1 MHz/3 MHz (RMS)   |
| <b>Input Power</b>     | 120 Vac, 60 Hz                          | <b>Environmental Conditions</b>          | 23 °C, 67 % RH      |
| <b>Tested By</b>       | Karl Lee                                |                                          |                     |

| Antenna Polarity & Test Distance : Horizontal at 3 m |                 |            |             |             |                    |                      |                  |                          |
|------------------------------------------------------|-----------------|------------|-------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No                                                   | Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | 5186.00         | -46.65     | -25.00      | -21.65      | 1.15 H             | 182                  | 46.01            | -92.66                   |
| Antenna Polarity & Test Distance : Vertical at 3 m   |                 |            |             |             |                    |                      |                  |                          |
| No                                                   | Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | 5186.00         | -46.85     | -25.00      | -21.85      | 1.89 V             | 231                  | 45.81            | -92.66                   |

**Remarks:**

1.  $EIRP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2.  $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8$
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit.

|                        |                                         |                                          |                     |
|------------------------|-----------------------------------------|------------------------------------------|---------------------|
| <b>RF Mode</b>         | LTE Band 41<br>Channel Bandwidth: 20MHz | <b>Channel</b>                           | CH 41490 : 2680 MHz |
| <b>Frequency Range</b> | 1 GHz ~ 27 GHz                          | <b>Detector Function &amp; Bandwidth</b> | 1 MHz/3 MHz (RMS)   |
| <b>Input Power</b>     | 120 Vac, 60 Hz                          | <b>Environmental Conditions</b>          | 23 °C, 67 % RH      |
| <b>Tested By</b>       | Karl Lee                                |                                          |                     |

| Antenna Polarity & Test Distance : Horizontal at 3 m |                 |            |             |             |                    |                      |                  |                          |
|------------------------------------------------------|-----------------|------------|-------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No                                                   | Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | 5360.00         | -46.47     | -25.00      | -21.47      | 1.92 H             | 255                  | 46.20            | -92.67                   |
| Antenna Polarity & Test Distance : Vertical at 3 m   |                 |            |             |             |                    |                      |                  |                          |
| No                                                   | Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | 5360.00         | -46.61     | -25.00      | -21.61      | 2.36 V             | 144                  | 46.06            | -92.67                   |

**Remarks:**

1.  $EIRP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2.  $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8$
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit.

#### 7.7.11 LTE Band 42

|                        |                                        |                                          |                       |
|------------------------|----------------------------------------|------------------------------------------|-----------------------|
| <b>RF Mode</b>         | LTE Band 42<br>Channel Bandwidth: 5MHz | <b>Channel</b>                           | CH 42115 : 3452.5 MHz |
| <b>Frequency Range</b> | 1 GHz ~ 40 GHz                         | <b>Detector Function &amp; Bandwidth</b> | 1 MHz/3 MHz (RMS)     |
| <b>Input Power</b>     | 120 Vac, 60 Hz                         | <b>Environmental Conditions</b>          | 23 °C, 67 % RH        |
| <b>Tested By</b>       | Karl Lee                               |                                          |                       |

| Antenna Polarity & Test Distance : Horizontal at 3 m |                 |            |             |             |                    |                      |                  |                          |
|------------------------------------------------------|-----------------|------------|-------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No                                                   | Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | 6905.00         | -41.80     | -13.00      | -28.80      | 2.02 H             | 120                  | 45.93            | -87.73                   |
| Antenna Polarity & Test Distance : Vertical at 3 m   |                 |            |             |             |                    |                      |                  |                          |
| No                                                   | Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | 6905.00         | -41.22     | -13.00      | -28.22      | 1.61 V             | 293                  | 46.51            | -87.73                   |

#### Remarks:

1.  $EIRP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2.  $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8$
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit.

|                        |                                        |                                          |                     |
|------------------------|----------------------------------------|------------------------------------------|---------------------|
| <b>RF Mode</b>         | LTE Band 42<br>Channel Bandwidth: 5MHz | <b>Channel</b>                           | CH 42590 : 3500 MHz |
| <b>Frequency Range</b> | 1 GHz ~ 40 GHz                         | <b>Detector Function &amp; Bandwidth</b> | 1 MHz/3 MHz (RMS)   |
| <b>Input Power</b>     | 120 Vac, 60 Hz                         | <b>Environmental Conditions</b>          | 23 °C, 67 % RH      |
| <b>Tested By</b>       | Karl Lee                               |                                          |                     |

| Antenna Polarity & Test Distance : Horizontal at 3 m |                 |            |             |             |                    |                      |                  |                          |
|------------------------------------------------------|-----------------|------------|-------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No                                                   | Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | 7000.00         | -41.36     | -13.00      | -28.36      | 1.59 H             | 235                  | 46.40            | -87.76                   |
| Antenna Polarity & Test Distance : Vertical at 3 m   |                 |            |             |             |                    |                      |                  |                          |
| No                                                   | Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | 7000.00         | -41.47     | -13.00      | -28.47      | 2.24 V             | 183                  | 46.29            | -87.76                   |

**Remarks:**

1.  $EIRP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2.  $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8$
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit.



|                        |                                        |                                          |                       |
|------------------------|----------------------------------------|------------------------------------------|-----------------------|
| <b>RF Mode</b>         | LTE Band 42<br>Channel Bandwidth: 5MHz | <b>Channel</b>                           | CH 43065 : 3547.5 MHz |
| <b>Frequency Range</b> | 1 GHz ~ 40 GHz                         | <b>Detector Function &amp; Bandwidth</b> | 1 MHz/3 MHz (RMS)     |
| <b>Input Power</b>     | 120 Vac, 60 Hz                         | <b>Environmental Conditions</b>          | 23 °C, 67 % RH        |
| <b>Tested By</b>       | Karl Lee                               |                                          |                       |

| Antenna Polarity & Test Distance : Horizontal at 3 m |                 |            |             |             |                    |                      |                  |                          |
|------------------------------------------------------|-----------------|------------|-------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No                                                   | Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | 7095.00         | -41.43     | -13.00      | -28.43      | 1.88 H             | 235                  | 46.21            | -87.64                   |
| Antenna Polarity & Test Distance : Vertical at 3 m   |                 |            |             |             |                    |                      |                  |                          |
| No                                                   | Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | 7095.00         | -41.19     | -13.00      | -28.19      | 1.21 V             | 179                  | 46.45            | -87.64                   |

**Remarks:**

1.  $EIRP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2.  $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8$
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit.

|                        |                                         |                                          |                     |
|------------------------|-----------------------------------------|------------------------------------------|---------------------|
| <b>RF Mode</b>         | LTE Band 42<br>Channel Bandwidth: 20MHz | <b>Channel</b>                           | CH 42190 : 3460 MHz |
| <b>Frequency Range</b> | 1 GHz ~ 40 GHz                          | <b>Detector Function &amp; Bandwidth</b> | 1 MHz/3 MHz (RMS)   |
| <b>Input Power</b>     | 120 Vac, 60 Hz                          | <b>Environmental Conditions</b>          | 23 °C, 67 % RH      |
| <b>Tested By</b>       | Karl Lee                                |                                          |                     |

| Antenna Polarity & Test Distance : Horizontal at 3 m |                 |            |             |             |                    |                      |                  |                          |
|------------------------------------------------------|-----------------|------------|-------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No                                                   | Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | 6920.00         | -41.72     | -13.00      | -28.72      | 1.96 H             | 132                  | 46.03            | -87.75                   |
| Antenna Polarity & Test Distance : Vertical at 3 m   |                 |            |             |             |                    |                      |                  |                          |
| No                                                   | Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | 6920.00         | -41.98     | -13.00      | -28.98      | 1.21 V             | 58                   | 45.77            | -87.75                   |

**Remarks:**

1.  $EIRP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2.  $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8$
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit.

|                        |                                         |                                          |                     |
|------------------------|-----------------------------------------|------------------------------------------|---------------------|
| <b>RF Mode</b>         | LTE Band 42<br>Channel Bandwidth: 20MHz | <b>Channel</b>                           | CH 42590 : 3500 MHz |
| <b>Frequency Range</b> | 1 GHz ~ 40 GHz                          | <b>Detector Function &amp; Bandwidth</b> | 1 MHz/3 MHz (RMS)   |
| <b>Input Power</b>     | 120 Vac, 60 Hz                          | <b>Environmental Conditions</b>          | 23 °C, 67 % RH      |
| <b>Tested By</b>       | Karl Lee                                |                                          |                     |

| Antenna Polarity & Test Distance : Horizontal at 3 m |                 |            |             |             |                    |                      |                  |                          |
|------------------------------------------------------|-----------------|------------|-------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No                                                   | Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | 7000.00         | -41.94     | -13.00      | -28.94      | 2.26 H             | 304                  | 45.82            | -87.76                   |
| Antenna Polarity & Test Distance : Vertical at 3 m   |                 |            |             |             |                    |                      |                  |                          |
| No                                                   | Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | 7000.00         | -41.43     | -13.00      | -28.43      | 1.30 V             | 8                    | 46.33            | -87.76                   |

**Remarks:**

1.  $EIRP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2.  $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8$
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit.

|                        |                                         |                                          |                     |
|------------------------|-----------------------------------------|------------------------------------------|---------------------|
| <b>RF Mode</b>         | LTE Band 42<br>Channel Bandwidth: 20MHz | <b>Channel</b>                           | CH 42990 : 3540 MHz |
| <b>Frequency Range</b> | 1 GHz ~ 40 GHz                          | <b>Detector Function &amp; Bandwidth</b> | 1 MHz/3 MHz (RMS)   |
| <b>Input Power</b>     | 120 Vac, 60 Hz                          | <b>Environmental Conditions</b>          | 23 °C, 67 % RH      |
| <b>Tested By</b>       | Karl Lee                                |                                          |                     |

| Antenna Polarity & Test Distance : Horizontal at 3 m |                 |            |             |             |                    |                      |                  |                          |
|------------------------------------------------------|-----------------|------------|-------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No                                                   | Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | 7080.00         | -41.74     | -13.00      | -28.74      | 1.45 H             | 31                   | 45.90            | -87.64                   |
| Antenna Polarity & Test Distance : Vertical at 3 m   |                 |            |             |             |                    |                      |                  |                          |
| No                                                   | Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | 7080.00         | -41.45     | -13.00      | -28.45      | 2.43 V             | 181                  | 46.19            | -87.64                   |

**Remarks:**

1.  $EIRP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2.  $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8$
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit.

#### 7.7.12 LTE Band 66

|                        |                                          |                                          |                        |
|------------------------|------------------------------------------|------------------------------------------|------------------------|
| <b>RF Mode</b>         | LTE Band 66<br>Channel Bandwidth: 1.4MHz | <b>Channel</b>                           | CH 131979 : 1710.7 MHz |
| <b>Frequency Range</b> | 1 GHz ~ 18 GHz                           | <b>Detector Function &amp; Bandwidth</b> | 1 MHz/3 MHz (RMS)      |
| <b>Input Power</b>     | 120 Vac, 60 Hz                           | <b>Environmental Conditions</b>          | 23 °C, 67 % RH         |
| <b>Tested By</b>       | Karl Lee                                 |                                          |                        |

| Antenna Polarity & Test Distance : Horizontal at 3 m |                 |            |             |             |                    |                      |                  |                          |
|------------------------------------------------------|-----------------|------------|-------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No                                                   | Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | 3421.40         | -50.58     | -13.00      | -37.58      | 1.34 H             | 188                  | 45.76            | -96.34                   |
| Antenna Polarity & Test Distance : Vertical at 3 m   |                 |            |             |             |                    |                      |                  |                          |
| No                                                   | Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | 3421.40         | -50.52     | -13.00      | -37.52      | 1.52 V             | 119                  | 45.82            | -96.34                   |

#### Remarks:

1.  $EIRP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2.  $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8$
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit.

|                        |                                          |                                          |                      |
|------------------------|------------------------------------------|------------------------------------------|----------------------|
| <b>RF Mode</b>         | LTE Band 66<br>Channel Bandwidth: 1.4MHz | <b>Channel</b>                           | CH 132322 : 1745 MHz |
| <b>Frequency Range</b> | 1 GHz ~ 18 GHz                           | <b>Detector Function &amp; Bandwidth</b> | 1 MHz/3 MHz (RMS)    |
| <b>Input Power</b>     | 120 Vac, 60 Hz                           | <b>Environmental Conditions</b>          | 23 °C, 67 % RH       |
| <b>Tested By</b>       | Karl Lee                                 |                                          |                      |

| Antenna Polarity & Test Distance : Horizontal at 3 m |                 |            |             |             |                    |                      |                  |                          |
|------------------------------------------------------|-----------------|------------|-------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No                                                   | Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | 3490.00         | -50.01     | -13.00      | -37.01      | 1.25 H             | 184                  | 46.18            | -96.19                   |
| Antenna Polarity & Test Distance : Vertical at 3 m   |                 |            |             |             |                    |                      |                  |                          |
| No                                                   | Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | 3490.00         | -50.17     | -13.00      | -37.17      | 1.59 V             | 273                  | 46.02            | -96.19                   |

**Remarks:**

1.  $EIRP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2.  $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8$
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit.

|                        |                                          |                                          |                        |
|------------------------|------------------------------------------|------------------------------------------|------------------------|
| <b>RF Mode</b>         | LTE Band 66<br>Channel Bandwidth: 1.4MHz | <b>Channel</b>                           | CH 132665 : 1779.3 MHz |
| <b>Frequency Range</b> | 1 GHz ~ 18 GHz                           | <b>Detector Function &amp; Bandwidth</b> | 1 MHz/3 MHz (RMS)      |
| <b>Input Power</b>     | 120 Vac, 60 Hz                           | <b>Environmental Conditions</b>          | 23 °C, 67 % RH         |
| <b>Tested By</b>       | Karl Lee                                 |                                          |                        |

| Antenna Polarity & Test Distance : Horizontal at 3 m |                 |            |             |             |                    |                      |                  |                          |
|------------------------------------------------------|-----------------|------------|-------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No                                                   | Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | 3558.60         | -49.04     | -13.00      | -36.04      | 1.52 H             | 227                  | 46.93            | -95.97                   |
| Antenna Polarity & Test Distance : Vertical at 3 m   |                 |            |             |             |                    |                      |                  |                          |
| No                                                   | Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | 3558.60         | -49.69     | -13.00      | -36.69      | 1.32 V             | 95                   | 46.28            | -95.97                   |

**Remarks:**

1.  $EIRP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2.  $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8$
3.  $Margin\ value = EIRP - Limit\ value$
4. The other EIRP levels were very low against the limit.

|                        |                                        |                                          |                        |
|------------------------|----------------------------------------|------------------------------------------|------------------------|
| <b>RF Mode</b>         | LTE Band 66<br>Channel Bandwidth: 5MHz | <b>Channel</b>                           | CH 131997 : 1712.5 MHz |
| <b>Frequency Range</b> | 1 GHz ~ 18 GHz                         | <b>Detector Function &amp; Bandwidth</b> | 1 MHz/3 MHz (RMS)      |
| <b>Input Power</b>     | 120 Vac, 60 Hz                         | <b>Environmental Conditions</b>          | 23 °C, 67 % RH         |
| <b>Tested By</b>       | Karl Lee                               |                                          |                        |

| Antenna Polarity & Test Distance : Horizontal at 3 m |                 |            |             |             |                    |                      |                  |                          |
|------------------------------------------------------|-----------------|------------|-------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No                                                   | Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | 3425.00         | -50.12     | -13.00      | -37.12      | 1.76 H             | 293                  | 46.22            | -96.34                   |
| Antenna Polarity & Test Distance : Vertical at 3 m   |                 |            |             |             |                    |                      |                  |                          |
| No                                                   | Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | 3425.00         | -50.39     | -13.00      | -37.39      | 1.22 V             | 138                  | 45.95            | -96.34                   |

**Remarks:**

1.  $EIRP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2.  $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8$
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit.



|                        |                                        |                                          |                      |
|------------------------|----------------------------------------|------------------------------------------|----------------------|
| <b>RF Mode</b>         | LTE Band 66<br>Channel Bandwidth: 5MHz | <b>Channel</b>                           | CH 132322 : 1745 MHz |
| <b>Frequency Range</b> | 1 GHz ~ 18 GHz                         | <b>Detector Function &amp; Bandwidth</b> | 1 MHz/3 MHz (RMS)    |
| <b>Input Power</b>     | 120 Vac, 60 Hz                         | <b>Environmental Conditions</b>          | 23 °C, 67 % RH       |
| <b>Tested By</b>       | Karl Lee                               |                                          |                      |

| Antenna Polarity & Test Distance : Horizontal at 3 m |                 |            |             |             |                    |                      |                  |                          |
|------------------------------------------------------|-----------------|------------|-------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No                                                   | Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | 3490.00         | -50.53     | -13.00      | -37.53      | 2.83 H             | 14                   | 45.66            | -96.19                   |
| Antenna Polarity & Test Distance : Vertical at 3 m   |                 |            |             |             |                    |                      |                  |                          |
| No                                                   | Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | 3490.00         | -49.83     | -13.00      | -36.83      | 1.72 V             | 161                  | 46.36            | -96.19                   |

**Remarks:**

1.  $EIRP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2.  $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8$
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit.

|                        |                                        |                                          |                        |
|------------------------|----------------------------------------|------------------------------------------|------------------------|
| <b>RF Mode</b>         | LTE Band 66<br>Channel Bandwidth: 5MHz | <b>Channel</b>                           | CH 132647 : 1777.5 MHz |
| <b>Frequency Range</b> | 1 GHz ~ 18 GHz                         | <b>Detector Function &amp; Bandwidth</b> | 1 MHz/3 MHz (RMS)      |
| <b>Input Power</b>     | 120 Vac, 60 Hz                         | <b>Environmental Conditions</b>          | 23 °C, 67 % RH         |
| <b>Tested By</b>       | Karl Lee                               |                                          |                        |

| Antenna Polarity & Test Distance : Horizontal at 3 m |                 |            |             |             |                    |                      |                  |                          |
|------------------------------------------------------|-----------------|------------|-------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No                                                   | Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | 3555.00         | -50.17     | -13.00      | -37.17      | 1.25 H             | 325                  | 45.81            | -95.98                   |
| Antenna Polarity & Test Distance : Vertical at 3 m   |                 |            |             |             |                    |                      |                  |                          |
| No                                                   | Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | 3555.00         | -49.70     | -13.00      | -36.70      | 1.35 V             | 293                  | 46.28            | -95.98                   |

**Remarks:**

1.  $EIRP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2.  $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8$
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit.

|                        |                                         |                                          |                      |
|------------------------|-----------------------------------------|------------------------------------------|----------------------|
| <b>RF Mode</b>         | LTE Band 66<br>Channel Bandwidth: 20MHz | <b>Channel</b>                           | CH 132072 : 1720 MHz |
| <b>Frequency Range</b> | 1 GHz ~ 18 GHz                          | <b>Detector Function &amp; Bandwidth</b> | 1 MHz/3 MHz (RMS)    |
| <b>Input Power</b>     | 120 Vac, 60 Hz                          | <b>Environmental Conditions</b>          | 23 °C, 67 % RH       |
| <b>Tested By</b>       | Karl Lee                                |                                          |                      |

| Antenna Polarity & Test Distance : Horizontal at 3 m |                 |            |             |             |                    |                      |                  |                          |
|------------------------------------------------------|-----------------|------------|-------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No                                                   | Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | 3440.00         | -50.10     | -13.00      | -37.10      | 1.77 H             | 53                   | 46.28            | -96.38                   |
| Antenna Polarity & Test Distance : Vertical at 3 m   |                 |            |             |             |                    |                      |                  |                          |
| No                                                   | Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | 3440.00         | -50.63     | -13.00      | -37.63      | 1.58 V             | 115                  | 45.75            | -96.38                   |

**Remarks:**

1.  $EIRP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2.  $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8$
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit.

|                        |                                         |                                          |                      |
|------------------------|-----------------------------------------|------------------------------------------|----------------------|
| <b>RF Mode</b>         | LTE Band 66<br>Channel Bandwidth: 20MHz | <b>Channel</b>                           | CH 132322 : 1745 MHz |
| <b>Frequency Range</b> | 1 GHz ~ 18 GHz                          | <b>Detector Function &amp; Bandwidth</b> | 1 MHz/3 MHz (RMS)    |
| <b>Input Power</b>     | 120 Vac, 60 Hz                          | <b>Environmental Conditions</b>          | 23 °C, 67 % RH       |
| <b>Tested By</b>       | Karl Lee                                |                                          |                      |

| Antenna Polarity & Test Distance : Horizontal at 3 m |                 |            |             |             |                    |                      |                  |                          |
|------------------------------------------------------|-----------------|------------|-------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No                                                   | Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | 3490.00         | -50.96     | -13.00      | -37.96      | 1.92 H             | 345                  | 45.23            | -96.19                   |
| Antenna Polarity & Test Distance : Vertical at 3 m   |                 |            |             |             |                    |                      |                  |                          |
| No                                                   | Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | 3490.00         | -50.07     | -13.00      | -37.07      | 2.63 V             | 184                  | 46.12            | -96.19                   |

**Remarks:**

1.  $EIRP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2.  $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8$
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit.

|                        |                                         |                                          |                      |
|------------------------|-----------------------------------------|------------------------------------------|----------------------|
| <b>RF Mode</b>         | LTE Band 66<br>Channel Bandwidth: 20MHz | <b>Channel</b>                           | CH 132572 : 1770 MHz |
| <b>Frequency Range</b> | 1 GHz ~ 18 GHz                          | <b>Detector Function &amp; Bandwidth</b> | 1 MHz/3 MHz (RMS)    |
| <b>Input Power</b>     | 120 Vac, 60 Hz                          | <b>Environmental Conditions</b>          | 23 °C, 67 % RH       |
| <b>Tested By</b>       | Karl Lee                                |                                          |                      |

| Antenna Polarity & Test Distance : Horizontal at 3 m |                 |            |             |             |                    |                      |                  |                          |
|------------------------------------------------------|-----------------|------------|-------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No                                                   | Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | 3540.00         | -50.10     | -13.00      | -37.10      | 1.66 H             | 322                  | 45.92            | -96.02                   |
| Antenna Polarity & Test Distance : Vertical at 3 m   |                 |            |             |             |                    |                      |                  |                          |
| No                                                   | Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | 3540.00         | -49.65     | -13.00      | -36.65      | 2.75 V             | 132                  | 46.37            | -96.02                   |

**Remarks:**

1.  $EIRP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2.  $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8$
3.  $Margin\ value = EIRP - Limit\ value$
4. The other EIRP levels were very low against the limit.

### 7.7.13 LTE Band 71

|                        |                                        |                                          |                       |
|------------------------|----------------------------------------|------------------------------------------|-----------------------|
| <b>RF Mode</b>         | LTE Band 71<br>Channel Bandwidth: 5MHz | <b>Channel</b>                           | CH 133147 : 665.5 MHz |
| <b>Frequency Range</b> | 1 GHz ~ 18 GHz                         | <b>Detector Function &amp; Bandwidth</b> | 1 MHz/3 MHz (RMS)     |
| <b>Input Power</b>     | 120 Vac, 60 Hz                         | <b>Environmental Conditions</b>          | 23 °C, 67 % RH        |
| <b>Tested By</b>       | Karl Lee                               |                                          |                       |

| Antenna Polarity & Test Distance : Horizontal at 3 m |                 |           |             |             |                    |                      |                  |                          |
|------------------------------------------------------|-----------------|-----------|-------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No                                                   | Frequency (MHz) | ERP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | 1331.00         | -45.95    | -13.00      | -32.95      | 1.97 H             | 82                   | 58.16            | -104.11                  |
| 2                                                    | 1996.50         | -45.79    | -13.00      | -32.79      | 2.14 H             | 293                  | 56.33            | -102.12                  |
| Antenna Polarity & Test Distance : Vertical at 3 m   |                 |           |             |             |                    |                      |                  |                          |
| No                                                   | Frequency (MHz) | ERP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | 1331.00         | -49.58    | -13.00      | -36.58      | 1.84 V             | 31                   | 54.53            | -104.11                  |
| 2                                                    | 1996.50         | -46.18    | -13.00      | -33.18      | 2.06 V             | 285                  | 55.94            | -102.12                  |

#### Remarks:

1.  $ERP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2.  $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8 - 2.15$
3. Margin value = ERP – Limit value
4. The other ERP levels were very low against the limit.

|                        |                                        |                                          |                       |
|------------------------|----------------------------------------|------------------------------------------|-----------------------|
| <b>RF Mode</b>         | LTE Band 71<br>Channel Bandwidth: 5MHz | <b>Channel</b>                           | CH 133297 : 680.5 MHz |
| <b>Frequency Range</b> | 1 GHz ~ 18 GHz                         | <b>Detector Function &amp; Bandwidth</b> | 1 MHz/3 MHz (RMS)     |
| <b>Input Power</b>     | 120 Vac, 60 Hz                         | <b>Environmental Conditions</b>          | 23 °C, 67 % RH        |
| <b>Tested By</b>       | Karl Lee                               |                                          |                       |

| Antenna Polarity & Test Distance : Horizontal at 3 m |                 |           |             |             |                    |                      |                  |                          |
|------------------------------------------------------|-----------------|-----------|-------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No                                                   | Frequency (MHz) | ERP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | 1361.00         | -50.47    | -13.00      | -37.47      | 1.14 H             | 169                  | 53.58            | -104.05                  |
| 2                                                    | 2041.50         | -47.04    | -13.00      | -34.04      | 1.88 H             | 235                  | 54.96            | -102.00                  |
| Antenna Polarity & Test Distance : Vertical at 3 m   |                 |           |             |             |                    |                      |                  |                          |
| No                                                   | Frequency (MHz) | ERP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | 1361.00         | -49.58    | -13.00      | -36.58      | 2.14 V             | 150                  | 54.47            | -104.05                  |
| 2                                                    | 2041.50         | -45.93    | -13.00      | -32.93      | 1.69 V             | 226                  | 56.07            | -102.00                  |

**Remarks:**

1.  $ERP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2.  $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8 - 2.15$
3. Margin value = ERP – Limit value
4. The other ERP levels were very low against the limit.

|                        |                                        |                                          |                       |
|------------------------|----------------------------------------|------------------------------------------|-----------------------|
| <b>RF Mode</b>         | LTE Band 71<br>Channel Bandwidth: 5MHz | <b>Channel</b>                           | CH 133447 : 695.5 MHz |
| <b>Frequency Range</b> | 1 GHz ~ 18 GHz                         | <b>Detector Function &amp; Bandwidth</b> | 1 MHz/3 MHz (RMS)     |
| <b>Input Power</b>     | 120 Vac, 60 Hz                         | <b>Environmental Conditions</b>          | 23 °C, 67 % RH        |
| <b>Tested By</b>       | Karl Lee                               |                                          |                       |

| Antenna Polarity & Test Distance : Horizontal at 3 m |                 |           |             |             |                    |                      |                  |                          |
|------------------------------------------------------|-----------------|-----------|-------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No                                                   | Frequency (MHz) | ERP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | 1391.00         | -51.07    | -13.00      | -38.07      | 1.32 H             | 153                  | 53.01            | -104.08                  |
| 2                                                    | 2086.50         | -48.35    | -13.00      | -35.35      | 1.27 H             | 226                  | 53.68            | -102.03                  |
| Antenna Polarity & Test Distance : Vertical at 3 m   |                 |           |             |             |                    |                      |                  |                          |
| No                                                   | Frequency (MHz) | ERP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | 1391.00         | -50.12    | -13.00      | -37.12      | 2.62 V             | 173                  | 53.96            | -104.08                  |
| 2                                                    | 2086.50         | -46.05    | -13.00      | -33.05      | 1.88 V             | 135                  | 55.98            | -102.03                  |

**Remarks:**

1.  $ERP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2.  $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8 - 2.15$
3. Margin value = ERP – Limit value
4. The other ERP levels were very low against the limit.



|                        |                                         |                                          |                     |
|------------------------|-----------------------------------------|------------------------------------------|---------------------|
| <b>RF Mode</b>         | LTE Band 71<br>Channel Bandwidth: 20MHz | <b>Channel</b>                           | CH 133222 : 673 MHz |
| <b>Frequency Range</b> | 1 GHz ~ 18 GHz                          | <b>Detector Function &amp; Bandwidth</b> | 1 MHz/3 MHz (RMS)   |
| <b>Input Power</b>     | 120 Vac, 60 Hz                          | <b>Environmental Conditions</b>          | 23 °C, 67 % RH      |
| <b>Tested By</b>       | Karl Lee                                |                                          |                     |

| Antenna Polarity & Test Distance : Horizontal at 3 m |                 |           |             |             |                    |                      |                  |                          |
|------------------------------------------------------|-----------------|-----------|-------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No                                                   | Frequency (MHz) | ERP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | 1346.00         | -48.50    | -13.00      | -35.50      | 2.27 H             | 41                   | 55.56            | -104.06                  |
| 2                                                    | 2019.00         | -47.57    | -13.00      | -34.57      | 1.51 H             | 278                  | 54.48            | -102.05                  |
| Antenna Polarity & Test Distance : Vertical at 3 m   |                 |           |             |             |                    |                      |                  |                          |
| No                                                   | Frequency (MHz) | ERP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | 1346.00         | -49.71    | -13.00      | -36.71      | 2.81 V             | 105                  | 54.35            | -104.06                  |
| 2                                                    | 2019.00         | -46.44    | -13.00      | -33.44      | 1.13 V             | 127                  | 55.61            | -102.05                  |

**Remarks:**

1.  $ERP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2.  $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8 - 2.15$
3. Margin value = ERP – Limit value
4. The other ERP levels were very low against the limit.

|                        |                                         |                                          |                       |
|------------------------|-----------------------------------------|------------------------------------------|-----------------------|
| <b>RF Mode</b>         | LTE Band 71<br>Channel Bandwidth: 20MHz | <b>Channel</b>                           | CH 133297 : 680.5 MHz |
| <b>Frequency Range</b> | 1 GHz ~ 18 GHz                          | <b>Detector Function &amp; Bandwidth</b> | 1 MHz/3 MHz (RMS)     |
| <b>Input Power</b>     | 120 Vac, 60 Hz                          | <b>Environmental Conditions</b>          | 23 °C, 67 % RH        |
| <b>Tested By</b>       | Karl Lee                                |                                          |                       |

| Antenna Polarity & Test Distance : Horizontal at 3 m |                 |           |             |             |                    |                      |                  |                          |
|------------------------------------------------------|-----------------|-----------|-------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No                                                   | Frequency (MHz) | ERP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | 1361.00         | -49.32    | -13.00      | -36.32      | 1.93 H             | 295                  | 54.73            | -104.05                  |
| 2                                                    | 2041.50         | -47.56    | -13.00      | -34.56      | 2.38 H             | 271                  | 54.44            | -102.00                  |
| Antenna Polarity & Test Distance : Vertical at 3 m   |                 |           |             |             |                    |                      |                  |                          |
| No                                                   | Frequency (MHz) | ERP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | 1361.00         | -49.99    | -13.00      | -36.99      | 2.27 V             | 186                  | 54.06            | -104.05                  |
| 2                                                    | 2041.50         | -45.54    | -13.00      | -32.54      | 1.78 V             | 92                   | 56.46            | -102.00                  |

**Remarks:**

1.  $ERP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2.  $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8 - 2.15$
3. Margin value = ERP – Limit value
4. The other ERP levels were very low against the limit.

|                        |                                         |                                          |                     |
|------------------------|-----------------------------------------|------------------------------------------|---------------------|
| <b>RF Mode</b>         | LTE Band 71<br>Channel Bandwidth: 20MHz | <b>Channel</b>                           | CH 133372 : 688 MHz |
| <b>Frequency Range</b> | 1 GHz ~ 18 GHz                          | <b>Detector Function &amp; Bandwidth</b> | 1 MHz/3 MHz (RMS)   |
| <b>Input Power</b>     | 120 Vac, 60 Hz                          | <b>Environmental Conditions</b>          | 23 °C, 67 % RH      |
| <b>Tested By</b>       | Karl Lee                                |                                          |                     |

| Antenna Polarity & Test Distance : Horizontal at 3 m |                 |           |             |             |                    |                      |                  |                          |
|------------------------------------------------------|-----------------|-----------|-------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No                                                   | Frequency (MHz) | ERP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | 1376.00         | -50.72    | -13.00      | -37.72      | 2.04 H             | 172                  | 53.35            | -104.07                  |
| 2                                                    | 2064.00         | -48.30    | -13.00      | -35.30      | 1.85 H             | 312                  | 53.70            | -102.00                  |
| Antenna Polarity & Test Distance : Vertical at 3 m   |                 |           |             |             |                    |                      |                  |                          |
| No                                                   | Frequency (MHz) | ERP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | 1376.00         | -50.20    | -13.00      | -37.20      | 1.71 V             | 180                  | 53.87            | -104.07                  |
| 2                                                    | 2064.00         | -45.31    | -13.00      | -32.31      | 1.56 V             | 231                  | 56.69            | -102.00                  |

**Remarks:**

1.  $ERP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2.  $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8 - 2.15$
3. Margin value = ERP – Limit value
4. The other ERP levels were very low against the limit.

## 7.8 Frequency Stability

|                           |              |            |            |
|---------------------------|--------------|------------|------------|
| Environmental Conditions: | 25°C, 67% RH | Tested By: | Noah Chang |
|---------------------------|--------------|------------|------------|

### 7.8.1 LTE Band 2

#### LTE Band 2, Channel Bandwidth: 1.4 MHz

| Frequency Stability Versus Voltage |                       |                       |                       |                       |
|------------------------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| Voltage (Vdc)                      | CH 18607 (1850.7 MHz) |                       | CH 19193 (1909.3 MHz) |                       |
|                                    | Frequency (MHz)       | Frequency Error (ppm) | Frequency (MHz)       | Frequency Error (ppm) |
| 3.23                               | 1850.700004           | 0.0022                | 1909.300005           | 0.0026                |
| 3.8                                | 1850.699998           | -0.0011               | 1909.300001           | 0.0005                |
| 4.4                                | 1850.700002           | 0.0011                | 1909.300001           | 0.0005                |

Note: The applicant defined the normal working voltage is from 3.23 to 4.4 Vdc.

| Frequency Stability Versus Temperature |                       |                       |                       |                       |
|----------------------------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| Temperature (°C)                       | CH 18607 (1850.7 MHz) |                       | CH 19193 (1909.3 MHz) |                       |
|                                        | Frequency (MHz)       | Frequency Error (ppm) | Frequency (MHz)       | Frequency Error (ppm) |
| -30                                    | 1850.700004           | 0.0022                | 1909.300008           | 0.0042                |
| -20                                    | 1850.700002           | 0.0011                | 1909.300003           | 0.0016                |
| -10                                    | 1850.699997           | -0.0016               | 1909.299993           | -0.0037               |
| 0                                      | 1850.700002           | 0.0011                | 1909.299997           | -0.0016               |
| 10                                     | 1850.699995           | -0.0027               | 1909.299995           | -0.0026               |
| 20                                     | 1850.699994           | -0.0032               | 1909.299994           | -0.0031               |
| 30                                     | 1850.699995           | -0.0027               | 1909.299991           | -0.0047               |
| 40                                     | 1850.700001           | 0.0005                | 1909.299999           | -0.0005               |
| 50                                     | 1850.699995           | -0.0027               | 1909.299992           | -0.0042               |
| 60                                     | 1850.700001           | 0.0005                | 1909.300001           | 0.0005                |
| 70                                     | 1850.700008           | 0.0043                | 1909.300006           | 0.0031                |
| 75                                     | 1850.700006           | 0.0032                | 1909.30001            | 0.0052                |

## LTE Band 2, Channel Bandwidth: 3 MHz

| Frequency Stability Versus Voltage |                       |                       |                       |                       |
|------------------------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| Voltage (Vdc)                      | CH 18615 (1851.5 MHz) |                       | CH 19185 (1908.5 MHz) |                       |
|                                    | Frequency (MHz)       | Frequency Error (ppm) | Frequency (MHz)       | Frequency Error (ppm) |
| 3.23                               | 1851.500006           | 0.0032                | 1908.500001           | 0.0005                |
| 3.8                                | 1851.499992           | -0.0043               | 1908.499991           | -0.0047               |
| 4.4                                | 1851.500006           | 0.0032                | 1908.500009           | 0.0047                |

Note: The applicant defined the normal working voltage is from 3.23 to 4.4 Vdc.

| Frequency Stability Versus Temperature |                       |                       |                       |                       |
|----------------------------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| Temperature (°C)                       | CH 18615 (1851.5 MHz) |                       | CH 19185 (1908.5 MHz) |                       |
|                                        | Frequency (MHz)       | Frequency Error (ppm) | Frequency (MHz)       | Frequency Error (ppm) |
| -30                                    | 1851.49999            | -0.0054               | 1908.49999            | -0.0052               |
| -20                                    | 1851.500003           | 0.0016                | 1908.500008           | 0.0042                |
| -10                                    | 1851.499997           | -0.0016               | 1908.499999           | -0.0005               |
| 0                                      | 1851.499992           | -0.0043               | 1908.499997           | -0.0016               |
| 10                                     | 1851.500006           | 0.0032                | 1908.500005           | 0.0026                |
| 20                                     | 1851.500001           | 0.0005                | 1908.500002           | 0.001                 |
| 30                                     | 1851.500001           | 0.0005                | 1908.500002           | 0.001                 |
| 40                                     | 1851.499997           | -0.0016               | 1908.499994           | -0.0031               |
| 50                                     | 1851.499997           | -0.0016               | 1908.500001           | 0.0005                |
| 60                                     | 1851.499994           | -0.0032               | 1908.499991           | -0.0047               |
| 70                                     | 1851.500001           | 0.0005                | 1908.500001           | 0.0005                |
| 75                                     | 1851.500002           | 0.0011                | 1908.500001           | 0.0005                |

## LTE Band 2, Channel Bandwidth: 5 MHz

| Frequency Stability Versus Voltage |                       |                       |                       |                       |
|------------------------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| Voltage (Vdc)                      | CH 18625 (1852.5 MHz) |                       | CH 19175 (1907.5 MHz) |                       |
|                                    | Frequency (MHz)       | Frequency Error (ppm) | Frequency (MHz)       | Frequency Error (ppm) |
| 3.23                               | 1852.500008           | 0.0043                | 1907.500005           | 0.0026                |
| 3.8                                | 1852.499991           | -0.0049               | 1907.499994           | -0.0031               |
| 4.4                                | 1852.499998           | -0.0011               | 1907.499998           | -0.001                |

Note: The applicant defined the normal working voltage is from 3.23 to 4.4 Vdc.

| Frequency Stability Versus Temperature |                       |                       |                       |                       |
|----------------------------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| Temperature (°C)                       | CH 18625 (1852.5 MHz) |                       | CH 19175 (1907.5 MHz) |                       |
|                                        | Frequency (MHz)       | Frequency Error (ppm) | Frequency (MHz)       | Frequency Error (ppm) |
| -30                                    | 1852.500007           | 0.0038                | 1907.500006           | 0.0031                |
| -20                                    | 1852.500002           | 0.0011                | 1907.500003           | 0.0016                |
| -10                                    | 1852.500009           | 0.0049                | 1907.500008           | 0.0042                |
| 0                                      | 1852.500002           | 0.0011                | 1907.500001           | 0.0005                |
| 10                                     | 1852.499992           | -0.0043               | 1907.499993           | -0.0037               |
| 20                                     | 1852.499991           | -0.0049               | 1907.49999            | -0.0052               |
| 30                                     | 1852.499995           | -0.0027               | 1907.499996           | -0.0021               |
| 40                                     | 1852.499996           | -0.0022               | 1907.499995           | -0.0026               |
| 50                                     | 1852.500007           | 0.0038                | 1907.500006           | 0.0031                |
| 60                                     | 1852.500002           | 0.0011                | 1907.500002           | 0.001                 |
| 70                                     | 1852.500007           | 0.0038                | 1907.500001           | 0.0052                |
| 75                                     | 1852.499994           | -0.0032               | 1907.499993           | -0.0037               |

## LTE Band 2, Channel Bandwidth: 10 MHz

| Frequency Stability Versus Voltage |                     |                       |                     |                       |
|------------------------------------|---------------------|-----------------------|---------------------|-----------------------|
| Voltage (Vdc)                      | CH 18650 (1855 MHz) |                       | CH 19150 (1905 MHz) |                       |
|                                    | Frequency (MHz)     | Frequency Error (ppm) | Frequency (MHz)     | Frequency Error (ppm) |
| 3.23                               | 1855.000007         | 0.0038                | 1905.000009         | 0.0047                |
| 3.8                                | 1855.000002         | 0.0011                | 1905.000005         | 0.0026                |
| 4.4                                | 1854.999993         | -0.0038               | 1904.999992         | -0.0042               |

Note: The applicant defined the normal working voltage is from 3.23 to 4.4 Vdc.

| Frequency Stability Versus Temperature |                     |                       |                     |                       |
|----------------------------------------|---------------------|-----------------------|---------------------|-----------------------|
| Temperature (°C)                       | CH 18650 (1855 MHz) |                       | CH 19150 (1905 MHz) |                       |
|                                        | Frequency (MHz)     | Frequency Error (ppm) | Frequency (MHz)     | Frequency Error (ppm) |
| -30                                    | 1855.000007         | 0.0038                | 1905.000008         | 0.0042                |
| -20                                    | 1855.000006         | 0.0032                | 1905.000004         | 0.0021                |
| -10                                    | 1854.999993         | -0.0038               | 1904.999995         | -0.0026               |
| 0                                      | 1855.000005         | 0.0027                | 1905.000004         | 0.0021                |
| 10                                     | 1855.000005         | 0.0027                | 1905.000009         | 0.0047                |
| 20                                     | 1854.999991         | -0.0049               | 1904.999994         | -0.0031               |
| 30                                     | 1854.999999         | -0.0005               | 1905.000001         | 0.0005                |
| 40                                     | 1855.000002         | 0.0011                | 1905.000003         | 0.0016                |
| 50                                     | 1855.000004         | 0.0022                | 1905.000001         | 0.0005                |
| 60                                     | 1854.999995         | -0.0027               | 1904.999994         | -0.0031               |
| 70                                     | 1855.000001         | 0.0054                | 1905.000007         | 0.0037                |
| 75                                     | 1854.999994         | -0.0032               | 1904.999994         | -0.0031               |

## LTE Band 2, Channel Bandwidth: 15 MHz

| Frequency Stability Versus Voltage |                       |                       |                       |                       |
|------------------------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| Voltage (Vdc)                      | CH 18675 (1857.5 MHz) |                       | CH 19125 (1902.5 MHz) |                       |
|                                    | Frequency (MHz)       | Frequency Error (ppm) | Frequency (MHz)       | Frequency Error (ppm) |
| 3.23                               | 1857.500002           | 0.0011                | 1902.500004           | 0.0021                |
| 3.8                                | 1857.500002           | 0.0011                | 1902.500005           | 0.0026                |
| 4.4                                | 1857.499995           | -0.0027               | 1902.499991           | -0.0047               |

Note: The applicant defined the normal working voltage is from 3.23 to 4.4 Vdc.

| Frequency Stability Versus Temperature |                       |                       |                       |                       |
|----------------------------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| Temperature (°C)                       | CH 18675 (1857.5 MHz) |                       | CH 19125 (1902.5 MHz) |                       |
|                                        | Frequency (MHz)       | Frequency Error (ppm) | Frequency (MHz)       | Frequency Error (ppm) |
| -30                                    | 1857.500006           | 0.0032                | 1902.500006           | 0.0032                |
| -20                                    | 1857.500001           | 0.0005                | 1902.500004           | 0.0021                |
| -10                                    | 1857.499999           | -0.0005               | 1902.499999           | -0.0005               |
| 0                                      | 1857.500006           | 0.0032                | 1902.500008           | 0.0042                |
| 10                                     | 1857.499998           | -0.0011               | 1902.500001           | 0.0005                |
| 20                                     | 1857.499993           | -0.0038               | 1902.49999            | -0.0053               |
| 30                                     | 1857.500004           | 0.0022                | 1902.500008           | 0.0042                |
| 40                                     | 1857.499992           | -0.0043               | 1902.499993           | -0.0037               |
| 50                                     | 1857.49999            | -0.0054               | 1902.499991           | -0.0047               |
| 60                                     | 1857.499992           | -0.0043               | 1902.499991           | -0.0047               |
| 70                                     | 1857.500008           | 0.0043                | 1902.500007           | 0.0037                |
| 75                                     | 1857.500003           | 0.0016                | 1902.500003           | 0.0016                |



## LTE Band 2, Channel Bandwidth: 20 MHz

| Frequency Stability Versus Voltage |                     |                       |                     |                       |
|------------------------------------|---------------------|-----------------------|---------------------|-----------------------|
| Voltage (Vdc)                      | CH 18700 (1860 MHz) |                       | CH 19100 (1900 MHz) |                       |
|                                    | Frequency (MHz)     | Frequency Error (ppm) | Frequency (MHz)     | Frequency Error (ppm) |
| 3.23                               | 1860.000008         | 0.0043                | 1900.000009         | 0.0047                |
| 3.8                                | 1860.00001          | 0.0054                | 1900.000005         | 0.0026                |
| 4.4                                | 1860.000002         | 0.0011                | 1900.000002         | 0.0011                |

Note: The applicant defined the normal working voltage is from 3.23 to 4.4 Vdc.

| Frequency Stability Versus Temperature |                     |                       |                     |                       |
|----------------------------------------|---------------------|-----------------------|---------------------|-----------------------|
| Temperature (°C)                       | CH 18700 (1860 MHz) |                       | CH 19100 (1900 MHz) |                       |
|                                        | Frequency (MHz)     | Frequency Error (ppm) | Frequency (MHz)     | Frequency Error (ppm) |
| -30                                    | 1860.000005         | 0.0027                | 1900.000001         | 0.0005                |
| -20                                    | 1859.999997         | -0.0016               | 1899.999997         | -0.0016               |
| -10                                    | 1860.000001         | 0.0005                | 1900.000003         | 0.0016                |
| 0                                      | 1859.999994         | -0.0032               | 1899.99999          | -0.0053               |
| 10                                     | 1860.000003         | 0.0016                | 1900.000005         | 0.0026                |
| 20                                     | 1859.999996         | -0.0022               | 1899.999995         | -0.0026               |
| 30                                     | 1860.000006         | 0.0032                | 1900.000004         | 0.0021                |
| 40                                     | 1859.999997         | -0.0016               | 1899.999995         | -0.0026               |
| 50                                     | 1859.999996         | -0.0022               | 1899.999993         | -0.0037               |
| 60                                     | 1859.999997         | -0.0016               | 1899.999993         | -0.0037               |
| 70                                     | 1859.999994         | -0.0032               | 1899.999992         | -0.0042               |
| 75                                     | 1860.000003         | 0.0016                | 1900.000002         | 0.0011                |

## 7.8.2 LTE Band 4

### LTE Band 4, Channel Bandwidth: 1.4 MHz

| Frequency Stability Versus Voltage |                       |                       |                       |                       |
|------------------------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| Voltage (Vdc)                      | CH 19957 (1710.7 MHz) |                       | CH 20393 (1754.3 MHz) |                       |
|                                    | Frequency (MHz)       | Frequency Error (ppm) | Frequency (MHz)       | Frequency Error (ppm) |
| 3.23                               | 1710.699993           | -0.0041               | 1754.299993           | -0.004                |
| 3.8                                | 1710.699995           | -0.0029               | 1754.299993           | -0.004                |
| 4.4                                | 1710.699993           | -0.0041               | 1754.299994           | -0.0034               |

Note: The applicant defined the normal working voltage is from 3.23 to 4.4 Vdc.

| Frequency Stability Versus Temperature |                       |                       |                       |                       |
|----------------------------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| Temperature (°C)                       | CH 19957 (1710.7 MHz) |                       | CH 20393 (1754.3 MHz) |                       |
|                                        | Frequency (MHz)       | Frequency Error (ppm) | Frequency (MHz)       | Frequency Error (ppm) |
| -30                                    | 1710.699994           | -0.0035               | 1754.299997           | -0.0017               |
| -20                                    | 1710.700005           | 0.0029                | 1754.300004           | 0.0023                |
| -10                                    | 1710.699993           | -0.0041               | 1754.299994           | -0.0034               |
| 0                                      | 1710.699998           | -0.0012               | 1754.299995           | -0.0029               |
| 10                                     | 1710.699999           | -0.0006               | 1754.300001           | 0.0006                |
| 20                                     | 1710.699997           | -0.0018               | 1754.299995           | -0.0029               |
| 30                                     | 1710.699992           | -0.0047               | 1754.299992           | -0.0046               |
| 40                                     | 1710.700006           | 0.0035                | 1754.300001           | 0.0006                |
| 50                                     | 1710.700001           | 0.0006                | 1754.300005           | 0.0029                |
| 60                                     | 1710.700001           | 0.0006                | 1754.299996           | -0.0023               |
| 70                                     | 1710.699997           | -0.0018               | 1754.299998           | -0.0011               |
| 75                                     | 1710.699997           | -0.0018               | 1754.299995           | -0.0029               |

# LTE Band 4, Channel Bandwidth: 3 MHz

| Frequency Stability Versus Voltage |                       |                       |                       |                       |
|------------------------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| Voltage (Vdc)                      | CH 19965 (1711.5 MHz) |                       | CH 20385 (1753.5 MHz) |                       |
|                                    | Frequency (MHz)       | Frequency Error (ppm) | Frequency (MHz)       | Frequency Error (ppm) |
| 3.23                               | 1711.499994           | -0.0035               | 1753.499994           | -0.0034               |
| 3.8                                | 1711.500001           | 0.0006                | 1753.500004           | 0.0023                |
| 4.4                                | 1711.500002           | 0.0012                | 1753.500005           | 0.0029                |

Note: The applicant defined the normal working voltage is from 3.23 to 4.4 Vdc.

| Frequency Stability Versus Temperature |                       |                       |                       |                       |
|----------------------------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| Temperature (°C)                       | CH 19965 (1711.5 MHz) |                       | CH 20385 (1753.5 MHz) |                       |
|                                        | Frequency (MHz)       | Frequency Error (ppm) | Frequency (MHz)       | Frequency Error (ppm) |
| -30                                    | 1711.500008           | 0.0047                | 1753.500008           | 0.0046                |
| -20                                    | 1711.499998           | -0.0012               | 1753.499997           | -0.0017               |
| -10                                    | 1711.500007           | 0.0041                | 1753.500006           | 0.0034                |
| 0                                      | 1711.499995           | -0.0029               | 1753.499999           | -0.0006               |
| 10                                     | 1711.499999           | -0.0006               | 1753.500001           | 0.0006                |
| 20                                     | 1711.499997           | -0.0018               | 1753.499997           | -0.0017               |
| 30                                     | 1711.500007           | 0.0041                | 1753.500002           | 0.0011                |
| 40                                     | 1711.500006           | 0.0035                | 1753.500005           | 0.0029                |
| 50                                     | 1711.499996           | -0.0023               | 1753.499994           | -0.0034               |
| 60                                     | 1711.499996           | -0.0023               | 1753.499995           | -0.0029               |
| 70                                     | 1711.499992           | -0.0047               | 1753.499997           | -0.0017               |
| 75                                     | 1711.499992           | -0.0047               | 1753.499994           | -0.0034               |

# LTE Band 4, Channel Bandwidth: 5 MHz

| Frequency Stability Versus Voltage |                       |                       |                       |                       |
|------------------------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| Voltage (Vdc)                      | CH 19975 (1712.5 MHz) |                       | CH 20375 (1752.5 MHz) |                       |
|                                    | Frequency (MHz)       | Frequency Error (ppm) | Frequency (MHz)       | Frequency Error (ppm) |
| 3.23                               | 1712.499994           | -0.0035               | 1752.499998           | -0.0011               |
| 3.8                                | 1712.499995           | -0.0029               | 1752.499993           | -0.004                |
| 4.4                                | 1712.499997           | -0.0018               | 1752.499994           | -0.0034               |

Note: The applicant defined the normal working voltage is from 3.23 to 4.4 Vdc.

| Frequency Stability Versus Temperature |                       |                       |                       |                       |
|----------------------------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| Temperature (°C)                       | CH 19975 (1712.5 MHz) |                       | CH 20375 (1752.5 MHz) |                       |
|                                        | Frequency (MHz)       | Frequency Error (ppm) | Frequency (MHz)       | Frequency Error (ppm) |
| -30                                    | 1712.500004           | 0.0023                | 1752.500001           | 0.0006                |
| -20                                    | 1712.500007           | 0.0041                | 1752.500007           | 0.004                 |
| -10                                    | 1712.499999           | -0.0006               | 1752.499996           | -0.0023               |
| 0                                      | 1712.500002           | 0.0012                | 1752.500001           | 0.0006                |
| 10                                     | 1712.499995           | -0.0029               | 1752.499995           | -0.0029               |
| 20                                     | 1712.500004           | 0.0023                | 1752.500003           | 0.0017                |
| 30                                     | 1712.499998           | -0.0012               | 1752.499994           | -0.0034               |
| 40                                     | 1712.500008           | 0.0047                | 1752.500007           | 0.004                 |
| 50                                     | 1712.500007           | 0.0041                | 1752.500003           | 0.0017                |
| 60                                     | 1712.499997           | -0.0018               | 1752.500002           | 0.0011                |
| 70                                     | 1712.499996           | -0.0023               | 1752.499992           | -0.0046               |
| 75                                     | 1712.499993           | -0.0041               | 1752.499994           | -0.0034               |

# LTE Band 4, Channel Bandwidth: 10 MHz

| Frequency Stability Versus Voltage |                     |                       |                     |                       |
|------------------------------------|---------------------|-----------------------|---------------------|-----------------------|
| Voltage (Vdc)                      | CH 20000 (1715 MHz) |                       | CH 20350 (1750 MHz) |                       |
|                                    | Frequency (MHz)     | Frequency Error (ppm) | Frequency (MHz)     | Frequency Error (ppm) |
| 3.23                               | 1714.999998         | -0.0012               | 1749.999997         | -0.0017               |
| 3.8                                | 1714.999995         | -0.0029               | 1749.999996         | -0.0023               |
| 4.4                                | 1715.000001         | 0.0006                | 1750.000006         | 0.0034                |

Note: The applicant defined the normal working voltage is from 3.23 to 4.4 Vdc.

| Frequency Stability Versus Temperature |                     |                       |                     |                       |
|----------------------------------------|---------------------|-----------------------|---------------------|-----------------------|
| Temperature (°C)                       | CH 20000 (1715 MHz) |                       | CH 20350 (1750 MHz) |                       |
|                                        | Frequency (MHz)     | Frequency Error (ppm) | Frequency (MHz)     | Frequency Error (ppm) |
| -30                                    | 1714.999998         | -0.0012               | 1750.000002         | 0.0011                |
| -20                                    | 1715.000009         | 0.0052                | 1750.000006         | 0.0034                |
| -10                                    | 1714.999994         | -0.0035               | 1749.999994         | -0.0034               |
| 0                                      | 1715.000008         | 0.0047                | 1750.000004         | 0.0023                |
| 10                                     | 1714.999996         | -0.0023               | 1749.999993         | -0.004                |
| 20                                     | 1715.000005         | 0.0029                | 1750.000001         | 0.0006                |
| 30                                     | 1714.999998         | -0.0012               | 1750.000001         | 0.0006                |
| 40                                     | 1714.999993         | -0.0041               | 1749.999995         | -0.0029               |
| 50                                     | 1714.999994         | -0.0035               | 1749.999993         | -0.004                |
| 60                                     | 1714.999998         | -0.0012               | 1749.999996         | -0.0023               |
| 70                                     | 1714.999999         | -0.0006               | 1749.999996         | -0.0023               |
| 75                                     | 1714.999999         | -0.0058               | 1749.999992         | -0.0046               |

# LTE Band 4, Channel Bandwidth: 15 MHz

| Frequency Stability Versus Voltage |                       |                       |                       |                       |
|------------------------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| Voltage (Vdc)                      | CH 20025 (1717.5 MHz) |                       | CH 20325 (1747.5 MHz) |                       |
|                                    | Frequency (MHz)       | Frequency Error (ppm) | Frequency (MHz)       | Frequency Error (ppm) |
| 3.23                               | 1717.50001            | 0.0058                | 1747.50001            | 0.0057                |
| 3.8                                | 1717.499998           | -0.0012               | 1747.499996           | -0.0023               |
| 4.4                                | 1717.500005           | 0.0029                | 1747.500001           | 0.0006                |

Note: The applicant defined the normal working voltage is from 3.23 to 4.4 Vdc.

| Frequency Stability Versus Temperature |                       |                       |                       |                       |
|----------------------------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| Temperature (°C)                       | CH 20025 (1717.5 MHz) |                       | CH 20325 (1747.5 MHz) |                       |
|                                        | Frequency (MHz)       | Frequency Error (ppm) | Frequency (MHz)       | Frequency Error (ppm) |
| -30                                    | 1717.500008           | 0.0047                | 1747.500009           | 0.0052                |
| -20                                    | 1717.499995           | -0.0029               | 1747.499993           | -0.004                |
| -10                                    | 1717.500003           | 0.0017                | 1747.500001           | 0.0006                |
| 0                                      | 1717.499996           | -0.0023               | 1747.499997           | -0.0017               |
| 10                                     | 1717.500005           | 0.0029                | 1747.500002           | 0.0011                |
| 20                                     | 1717.499999           | -0.0006               | 1747.499996           | -0.0023               |
| 30                                     | 1717.500009           | 0.0052                | 1747.500008           | 0.0046                |
| 40                                     | 1717.500008           | 0.0047                | 1747.500008           | 0.0046                |
| 50                                     | 1717.499991           | -0.0052               | 1747.49999            | -0.0057               |
| 60                                     | 1717.499992           | -0.0047               | 1747.499992           | -0.0046               |
| 70                                     | 1717.499994           | -0.0035               | 1747.499993           | -0.004                |
| 75                                     | 1717.499996           | -0.0023               | 1747.499997           | -0.0017               |

# LTE Band 4, Channel Bandwidth: 20 MHz

| Frequency Stability Versus Voltage |                     |                       |                     |                       |
|------------------------------------|---------------------|-----------------------|---------------------|-----------------------|
| Voltage (Vdc)                      | CH 20050 (1720 MHz) |                       | CH 20300 (1745 MHz) |                       |
|                                    | Frequency (MHz)     | Frequency Error (ppm) | Frequency (MHz)     | Frequency Error (ppm) |
| 3.23                               | 1720.000002         | 0.0012                | 1744.999997         | -0.0017               |
| 3.8                                | 1719.999999         | -0.0006               | 1745.000003         | 0.0017                |
| 4.4                                | 1720.000005         | 0.0029                | 1745.000007         | 0.004                 |

Note: The applicant defined the normal working voltage is from 3.23 to 4.4 Vdc.

| Frequency Stability Versus Temperature |                     |                       |                     |                       |
|----------------------------------------|---------------------|-----------------------|---------------------|-----------------------|
| Temperature (°C)                       | CH 20050 (1720 MHz) |                       | CH 20300 (1745 MHz) |                       |
|                                        | Frequency (MHz)     | Frequency Error (ppm) | Frequency (MHz)     | Frequency Error (ppm) |
| -30                                    | 1720.000008         | 0.0047                | 1745.000005         | 0.0029                |
| -20                                    | 1720.000001         | 0.0006                | 1745.000004         | 0.0023                |
| -10                                    | 1720.000004         | 0.0023                | 1745.000008         | 0.0046                |
| 0                                      | 1719.999997         | -0.0017               | 1744.999994         | -0.0034               |
| 10                                     | 1720.000006         | 0.0035                | 1745.000009         | 0.0052                |
| 20                                     | 1719.999999         | -0.0006               | 1745.000002         | 0.0011                |
| 30                                     | 1720.000009         | 0.0052                | 1745.000005         | 0.0029                |
| 40                                     | 1720.000008         | 0.0047                | 1745.000008         | 0.0046                |
| 50                                     | 1720.000004         | 0.0023                | 1745.000006         | 0.0034                |
| 60                                     | 1720.000003         | 0.0017                | 1745.000006         | 0.0034                |
| 70                                     | 1719.999994         | -0.0035               | 1744.999992         | -0.0046               |
| 75                                     | 1720.000002         | 0.0012                | 1744.999996         | -0.0023               |

### 7.8.3 LTE Band 5

#### LTE Band 5, Channel Bandwidth: 1.4 MHz

| Frequency Stability Versus Voltage |                      |                       |                      |                       |
|------------------------------------|----------------------|-----------------------|----------------------|-----------------------|
| Voltage (Vdc)                      | CH 20407 (824.7 MHz) |                       | CH 20643 (848.3 MHz) |                       |
|                                    | Frequency (MHz)      | Frequency Error (ppm) | Frequency (MHz)      | Frequency Error (ppm) |
| 3.23                               | 824.699991           | -0.0109               | 848.299992           | -0.0094               |
| 3.8                                | 824.699998           | -0.0024               | 848.299998           | -0.0024               |
| 4.4                                | 824.699996           | -0.0049               | 848.299999           | -0.0012               |

Note: The applicant defined the normal working voltage is from 3.23 to 4.4 Vdc.

| Frequency Stability Versus Temperature |                      |                       |                      |                       |
|----------------------------------------|----------------------|-----------------------|----------------------|-----------------------|
| Temperature (°C)                       | CH 20407 (824.7 MHz) |                       | CH 20643 (848.3 MHz) |                       |
|                                        | Frequency (MHz)      | Frequency Error (ppm) | Frequency (MHz)      | Frequency Error (ppm) |
| -30                                    | 824.699992           | -0.0097               | 848.299996           | -0.0047               |
| -20                                    | 824.700003           | 0.0036                | 848.300001           | 0.0012                |
| -10                                    | 824.699997           | -0.0036               | 848.299999           | -0.0012               |
| 0                                      | 824.699995           | -0.0061               | 848.299994           | -0.0071               |
| 10                                     | 824.700002           | 0.0024                | 848.300003           | 0.0035                |
| 20                                     | 824.699995           | -0.0061               | 848.299995           | -0.0059               |
| 30                                     | 824.700009           | 0.0109                | 848.300006           | 0.0071                |
| 40                                     | 824.700003           | 0.0036                | 848.300007           | 0.0083                |
| 50                                     | 824.699999           | -0.0012               | 848.300002           | 0.0024                |
| 60                                     | 824.699999           | -0.0012               | 848.300003           | 0.0035                |
| 70                                     | 824.699995           | -0.0061               | 848.299997           | -0.0035               |
| 75                                     | 824.699995           | -0.0061               | 848.299995           | -0.0059               |



# LTE Band 5, Channel Bandwidth: 3 MHz

| Frequency Stability Versus Voltage |                      |                       |                      |                       |
|------------------------------------|----------------------|-----------------------|----------------------|-----------------------|
| Voltage (Vdc)                      | CH 20415 (825.5 MHz) |                       | CH 20635 (847.5 MHz) |                       |
|                                    | Frequency (MHz)      | Frequency Error (ppm) | Frequency (MHz)      | Frequency Error (ppm) |
| 3.23                               | 825.499997           | -0.0036               | 847.499999           | -0.0012               |
| 3.8                                | 825.499997           | -0.0036               | 847.500001           | 0.0012                |
| 4.4                                | 825.500001           | 0.0012                | 847.500002           | 0.0024                |

Note: The applicant defined the normal working voltage is from 3.23 to 4.4 Vdc.

| Frequency Stability Versus Temperature |                      |                       |                      |                       |
|----------------------------------------|----------------------|-----------------------|----------------------|-----------------------|
| Temperature (°C)                       | CH 20415 (825.5 MHz) |                       | CH 20635 (847.5 MHz) |                       |
|                                        | Frequency (MHz)      | Frequency Error (ppm) | Frequency (MHz)      | Frequency Error (ppm) |
| -30                                    | 825.500006           | 0.0073                | 847.500008           | 0.0094                |
| -20                                    | 825.500009           | 0.0109                | 847.500007           | 0.0083                |
| -10                                    | 825.500001           | 0.0012                | 847.500003           | 0.0035                |
| 0                                      | 825.500005           | 0.0061                | 847.500009           | 0.0106                |
| 10                                     | 825.499998           | -0.0024               | 847.499996           | -0.0047               |
| 20                                     | 825.500007           | 0.0085                | 847.500007           | 0.0083                |
| 30                                     | 825.500003           | 0.0036                | 847.499998           | -0.0024               |
| 40                                     | 825.499993           | -0.0085               | 847.499998           | -0.0024               |
| 50                                     | 825.500001           | 0.0012                | 847.500001           | 0.0012                |
| 60                                     | 825.500002           | 0.0024                | 847.500002           | 0.0024                |
| 70                                     | 825.500001           | 0.0012                | 847.499999           | -0.0012               |
| 75                                     | 825.499998           | -0.0024               | 847.499998           | -0.0024               |

# LTE Band 5, Channel Bandwidth: 5 MHz

| Frequency Stability Versus Voltage |                      |                       |                      |                       |
|------------------------------------|----------------------|-----------------------|----------------------|-----------------------|
| Voltage (Vdc)                      | CH 20425 (826.5 MHz) |                       | CH 20625 (846.5 MHz) |                       |
|                                    | Frequency (MHz)      | Frequency Error (ppm) | Frequency (MHz)      | Frequency Error (ppm) |
| 3.23                               | 826.500007           | 0.0085                | 846.500006           | 0.0071                |
| 3.8                                | 826.499997           | -0.0036               | 846.499999           | -0.0012               |
| 4.4                                | 826.499999           | -0.0012               | 846.499999           | -0.0012               |

Note: The applicant defined the normal working voltage is from 3.23 to 4.4 Vdc.

| Frequency Stability Versus Temperature |                      |                       |                      |                       |
|----------------------------------------|----------------------|-----------------------|----------------------|-----------------------|
| Temperature (°C)                       | CH 20425 (826.5 MHz) |                       | CH 20625 (846.5 MHz) |                       |
|                                        | Frequency (MHz)      | Frequency Error (ppm) | Frequency (MHz)      | Frequency Error (ppm) |
| -30                                    | 826.499997           | -0.0036               | 846.500002           | 0.0024                |
| -20                                    | 826.499998           | -0.0024               | 846.500001           | 0.0012                |
| -10                                    | 826.500006           | 0.0073                | 846.500006           | 0.0071                |
| 0                                      | 826.499995           | -0.006                | 846.499996           | -0.0047               |
| 10                                     | 826.499999           | -0.0012               | 846.499997           | -0.0035               |
| 20                                     | 826.500001           | 0.0012                | 846.500003           | 0.0035                |
| 30                                     | 826.499998           | -0.0024               | 846.499997           | -0.0035               |
| 40                                     | 826.499993           | -0.0085               | 846.499999           | -0.0118               |
| 50                                     | 826.500004           | 0.0048                | 846.500007           | 0.0083                |
| 60                                     | 826.499992           | -0.0097               | 846.499993           | -0.0083               |
| 70                                     | 826.499999           | -0.0121               | 846.499991           | -0.0106               |
| 75                                     | 826.499991           | -0.0109               | 846.499999           | -0.0118               |

# LTE Band 5, Channel Bandwidth: 10 MHz

| Frequency Stability Versus Voltage |                    |                       |                    |                       |
|------------------------------------|--------------------|-----------------------|--------------------|-----------------------|
| Voltage (Vdc)                      | CH 20450 (829 MHz) |                       | CH 20600 (844 MHz) |                       |
|                                    | Frequency (MHz)    | Frequency Error (ppm) | Frequency (MHz)    | Frequency Error (ppm) |
| 3.23                               | 829.000003         | 0.0036                | 844.000002         | 0.0024                |
| 3.8                                | 828.999997         | -0.0036               | 843.999994         | -0.0071               |
| 4.4                                | 829.000002         | 0.0024                | 844.000002         | 0.0024                |

Note: The applicant defined the normal working voltage is from 3.23 to 4.4 Vdc.

| Frequency Stability Versus Temperature |                    |                       |                    |                       |
|----------------------------------------|--------------------|-----------------------|--------------------|-----------------------|
| Temperature (°C)                       | CH 20450 (829 MHz) |                       | CH 20600 (844 MHz) |                       |
|                                        | Frequency (MHz)    | Frequency Error (ppm) | Frequency (MHz)    | Frequency Error (ppm) |
| -30                                    | 829.00001          | 0.0121                | 844.000006         | 0.0071                |
| -20                                    | 829.00001          | 0.0121                | 844.000007         | 0.0083                |
| -10                                    | 828.999999         | -0.0012               | 843.999999         | -0.0012               |
| 0                                      | 829.000008         | 0.0097                | 844.000003         | 0.0036                |
| 10                                     | 829.000001         | 0.0012                | 843.999998         | -0.0024               |
| 20                                     | 829.000005         | 0.006                 | 844.000001         | 0.0012                |
| 30                                     | 829.000004         | 0.0048                | 844.000007         | 0.0083                |
| 40                                     | 828.999994         | -0.0072               | 843.999992         | -0.0095               |
| 50                                     | 828.999993         | -0.0084               | 843.999995         | -0.0059               |
| 60                                     | 829.000003         | 0.0036                | 844.000005         | 0.0059                |
| 70                                     | 829.000003         | 0.0036                | 844.000005         | 0.0059                |
| 75                                     | 828.999999         | -0.0012               | 843.999997         | -0.0036               |

#### 7.8.4 LTE Band 12

##### LTE Band 12, Channel Bandwidth: 1.4 MHz

| Frequency Stability Versus Voltage |                      |                       |                      |                       |
|------------------------------------|----------------------|-----------------------|----------------------|-----------------------|
| Voltage (Vdc)                      | CH 23017 (699.7 MHz) |                       | CH 23173 (715.3 MHz) |                       |
|                                    | Frequency (MHz)      | Frequency Error (ppm) | Frequency (MHz)      | Frequency Error (ppm) |
| 3.23                               | 699.699999           | -0.0014               | 715.299994           | -0.0084               |
| 3.8                                | 699.700001           | 0.0014                | 715.299999           | -0.0014               |
| 4.4                                | 699.700001           | 0.0014                | 715.300002           | 0.0028                |

Note: The applicant defined the normal working voltage is from 3.23 to 4.4 Vdc.

| Frequency Stability Versus Temperature |                      |                       |                      |                       |
|----------------------------------------|----------------------|-----------------------|----------------------|-----------------------|
| Temperature (°C)                       | CH 23017 (699.7 MHz) |                       | CH 23173 (715.3 MHz) |                       |
|                                        | Frequency (MHz)      | Frequency Error (ppm) | Frequency (MHz)      | Frequency Error (ppm) |
| -30                                    | 699.700004           | 0.0057                | 715.300004           | 0.0056                |
| -20                                    | 699.699999           | -0.0143               | 715.299991           | -0.0126               |
| -10                                    | 699.699993           | -0.01                 | 715.299997           | -0.0042               |
| 0                                      | 699.700005           | 0.0071                | 715.300006           | 0.0084                |
| 10                                     | 699.700009           | 0.0129                | 715.300005           | 0.007                 |
| 20                                     | 699.700004           | 0.0057                | 715.300006           | 0.0084                |
| 30                                     | 699.699999           | -0.0014               | 715.299996           | -0.0056               |
| 40                                     | 699.699999           | -0.0014               | 715.300003           | 0.0042                |
| 50                                     | 699.699993           | -0.01                 | 715.299992           | -0.0112               |
| 60                                     | 699.699991           | -0.0129               | 715.299999           | -0.014                |
| 70                                     | 699.699992           | -0.0114               | 715.299991           | -0.0126               |
| 75                                     | 699.699999           | -0.0014               | 715.299998           | -0.0028               |

# LTE Band 12, Channel Bandwidth: 3 MHz

| Frequency Stability Versus Voltage |                      |                       |                      |                       |
|------------------------------------|----------------------|-----------------------|----------------------|-----------------------|
| Voltage (Vdc)                      | CH 23025 (700.5 MHz) |                       | CH 23165 (714.5 MHz) |                       |
|                                    | Frequency (MHz)      | Frequency Error (ppm) | Frequency (MHz)      | Frequency Error (ppm) |
| 3.23                               | 700.499996           | -0.0057               | 714.499997           | -0.0042               |
| 3.8                                | 700.500002           | 0.0029                | 714.499997           | -0.0042               |
| 4.4                                | 700.499999           | -0.0014               | 714.500003           | 0.0042                |

Note: The applicant defined the normal working voltage is from 3.23 to 4.4 Vdc.

| Frequency Stability Versus Temperature |                      |                       |                      |                       |
|----------------------------------------|----------------------|-----------------------|----------------------|-----------------------|
| Temperature (°C)                       | CH 23025 (700.5 MHz) |                       | CH 23165 (714.5 MHz) |                       |
|                                        | Frequency (MHz)      | Frequency Error (ppm) | Frequency (MHz)      | Frequency Error (ppm) |
| -30                                    | 700.499991           | -0.0128               | 714.499996           | -0.0056               |
| -20                                    | 700.499994           | -0.0086               | 714.499991           | -0.0126               |
| -10                                    | 700.500001           | 0.0014                | 714.500005           | 0.007                 |
| 0                                      | 700.500009           | 0.0128                | 714.500006           | 0.0084                |
| 10                                     | 700.499997           | -0.0043               | 714.499994           | -0.0084               |
| 20                                     | 700.500006           | 0.0086                | 714.500002           | 0.0028                |
| 30                                     | 700.499999           | -0.0014               | 714.500003           | 0.0042                |
| 40                                     | 700.499995           | -0.0071               | 714.499991           | -0.0126               |
| 50                                     | 700.500008           | 0.0114                | 714.500008           | 0.0112                |
| 60                                     | 700.500004           | 0.0057                | 714.500006           | 0.0084                |
| 70                                     | 700.500004           | 0.0057                | 714.500007           | 0.0098                |
| 75                                     | 700.500002           | 0.0029                | 714.499999           | -0.0014               |

# LTE Band 12, Channel Bandwidth: 5 MHz

| Frequency Stability Versus Voltage |                      |                       |                      |                       |
|------------------------------------|----------------------|-----------------------|----------------------|-----------------------|
| Voltage (Vdc)                      | CH 23035 (701.5 MHz) |                       | CH 23155 (713.5 MHz) |                       |
|                                    | Frequency (MHz)      | Frequency Error (ppm) | Frequency (MHz)      | Frequency Error (ppm) |
| 3.23                               | 701.500002           | 0.0029                | 713.499996           | -0.0056               |
| 3.8                                | 701.499996           | -0.0057               | 713.499994           | -0.0084               |
| 4.4                                | 701.500002           | 0.0029                | 713.500004           | 0.0056                |

Note: The applicant defined the normal working voltage is from 3.23 to 4.4 Vdc.

| Frequency Stability Versus Temperature |                      |                       |                      |                       |
|----------------------------------------|----------------------|-----------------------|----------------------|-----------------------|
| Temperature (°C)                       | CH 23035 (701.5 MHz) |                       | CH 23155 (713.5 MHz) |                       |
|                                        | Frequency (MHz)      | Frequency Error (ppm) | Frequency (MHz)      | Frequency Error (ppm) |
| -30                                    | 701.500005           | 0.0071                | 713.500006           | 0.0084                |
| -20                                    | 701.499991           | -0.0128               | 713.499999           | -0.014                |
| -10                                    | 701.499994           | -0.0086               | 713.499998           | -0.0028               |
| 0                                      | 701.499996           | -0.0057               | 713.499994           | -0.0084               |
| 10                                     | 701.500005           | 0.0071                | 713.500003           | 0.0042                |
| 20                                     | 701.499997           | -0.0043               | 713.499998           | -0.0028               |
| 30                                     | 701.500007           | 0.01                  | 713.500004           | 0.0056                |
| 40                                     | 701.500002           | 0.0029                | 713.499998           | -0.0028               |
| 50                                     | 701.500001           | 0.0143                | 713.500001           | 0.014                 |
| 60                                     | 701.500009           | 0.0128                | 713.500005           | 0.007                 |
| 70                                     | 701.499992           | -0.0114               | 713.499991           | -0.0126               |
| 75                                     | 701.499993           | -0.01                 | 713.499999           | -0.014                |

# LTE Band 12, Channel Bandwidth: 10 MHz

| Frequency Stability Versus Voltage |                    |                       |                    |                       |
|------------------------------------|--------------------|-----------------------|--------------------|-----------------------|
| Voltage (Vdc)                      | CH 23060 (704 MHz) |                       | CH 23130 (711 MHz) |                       |
|                                    | Frequency (MHz)    | Frequency Error (ppm) | Frequency (MHz)    | Frequency Error (ppm) |
| 3.23                               | 704.000005         | 0.0071                | 711.000002         | 0.0028                |
| 3.8                                | 703.999999         | -0.0014               | 710.999997         | -0.0042               |
| 4.4                                | 704.000004         | 0.0057                | 711.000005         | 0.007                 |

Note: The applicant defined the normal working voltage is from 3.23 to 4.4 Vdc.

| Frequency Stability Versus Temperature |                    |                       |                    |                       |
|----------------------------------------|--------------------|-----------------------|--------------------|-----------------------|
| Temperature (°C)                       | CH 23060 (704 MHz) |                       | CH 23130 (711 MHz) |                       |
|                                        | Frequency (MHz)    | Frequency Error (ppm) | Frequency (MHz)    | Frequency Error (ppm) |
| -30                                    | 703.999992         | -0.0114               | 710.999992         | -0.0113               |
| -20                                    | 704.000009         | 0.0128                | 711.000007         | 0.0098                |
| -10                                    | 704.000009         | 0.0128                | 711.000007         | 0.0098                |
| 0                                      | 704.000002         | 0.0028                | 711.000007         | 0.0098                |
| 10                                     | 704.000005         | 0.0071                | 711.000009         | 0.0127                |
| 20                                     | 703.999998         | -0.0028               | 710.999996         | -0.0056               |
| 30                                     | 704.000007         | 0.0099                | 711.000006         | 0.0084                |
| 40                                     | 704.000008         | 0.0114                | 711.000003         | 0.0042                |
| 50                                     | 703.999993         | -0.0099               | 710.999998         | -0.0028               |
| 60                                     | 704.000002         | 0.0028                | 711.000004         | 0.0056                |
| 70                                     | 704.000005         | 0.0071                | 711.000007         | 0.0098                |
| 75                                     | 704.000006         | 0.0085                | 711.000004         | 0.0056                |

## 7.8.5 LTE Band 13

### LTE Band 13, Channel Bandwidth: 5 MHz

| Frequency Stability Versus Voltage |                      |                       |                      |                       |
|------------------------------------|----------------------|-----------------------|----------------------|-----------------------|
| Voltage (Vdc)                      | CH 23205 (779.5 MHz) |                       | CH 23255 (784.5 MHz) |                       |
|                                    | Frequency (MHz)      | Frequency Error (ppm) | Frequency (MHz)      | Frequency Error (ppm) |
| 3.23                               | 779.499998           | -0.0026               | 784.499998           | -0.0025               |
| 3.8                                | 779.499992           | -0.0103               | 784.499991           | -0.0115               |
| 4.4                                | 779.499997           | -0.0038               | 784.499999           | -0.0013               |

Note: The applicant defined the normal working voltage is from 3.23 to 4.4 Vdc.

| Frequency Stability Versus Temperature |                      |                       |                      |                       |
|----------------------------------------|----------------------|-----------------------|----------------------|-----------------------|
| Temperature (°C)                       | CH 23205 (779.5 MHz) |                       | CH 23255 (784.5 MHz) |                       |
|                                        | Frequency (MHz)      | Frequency Error (ppm) | Frequency (MHz)      | Frequency Error (ppm) |
| -30                                    | 779.500005           | 0.0064                | 784.500008           | 0.0102                |
| -20                                    | 779.500003           | 0.0038                | 784.499999           | -0.0013               |
| -10                                    | 779.499998           | -0.0026               | 784.499996           | -0.0051               |
| 0                                      | 779.500009           | 0.0115                | 784.500001           | 0.0127                |
| 10                                     | 779.500003           | 0.0038                | 784.499998           | -0.0025               |
| 20                                     | 779.500002           | 0.0026                | 784.500004           | 0.0051                |
| 30                                     | 779.500009           | 0.0115                | 784.500009           | 0.0115                |
| 40                                     | 779.500006           | 0.0077                | 784.500004           | 0.0051                |
| 50                                     | 779.499996           | -0.0051               | 784.499999           | -0.0013               |
| 60                                     | 779.500001           | 0.0128                | 784.500008           | 0.0102                |
| 70                                     | 779.500002           | 0.0026                | 784.500005           | 0.0064                |
| 75                                     | 779.499996           | -0.0051               | 784.499999           | -0.0013               |



# LTE Band 13, Channel Bandwidth: 10 MHz

| Frequency Stability Versus Voltage |                    |                       |
|------------------------------------|--------------------|-----------------------|
| Voltage (Vdc)                      | CH 23230 (782 MHz) |                       |
|                                    | Frequency (MHz)    | Frequency Error (ppm) |
| 3.23                               | 781.999996         | -0.0051               |
| 3.8                                | 782.000002         | 0.0026                |
| 4.4                                | 781.999998         | -0.0026               |

Note: The applicant defined the normal working voltage is from 3.23 to 4.4 Vdc.

| Frequency Stability Versus Temperature |                    |                       |
|----------------------------------------|--------------------|-----------------------|
| Temperature (°C)                       | CH 23230 (782 MHz) |                       |
|                                        | Frequency (MHz)    | Frequency Error (ppm) |
| -30                                    | 782.000005         | 0.0064                |
| -20                                    | 781.999999         | -0.0013               |
| -10                                    | 782.000007         | 0.009                 |
| 0                                      | 782.000001         | 0.0013                |
| 10                                     | 782.000005         | 0.0064                |
| 20                                     | 782.000007         | 0.009                 |
| 30                                     | 782.000006         | 0.0077                |
| 40                                     | 781.999999         | -0.0128               |
| 50                                     | 781.999997         | -0.0038               |
| 60                                     | 782.000003         | 0.0038                |
| 70                                     | 782.000006         | 0.0077                |
| 75                                     | 782.000006         | 0.0077                |

## 7.8.6 LTE Band 25

### LTE Band 25, Channel Bandwidth: 1.4 MHz

| Frequency Stability Versus Voltage |                       |                       |                       |                       |
|------------------------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| Voltage (Vdc)                      | CH 26047 (1850.7 MHz) |                       | CH 26683 (1914.3 MHz) |                       |
|                                    | Frequency (MHz)       | Frequency Error (ppm) | Frequency (MHz)       | Frequency Error (ppm) |
| 3.23                               | 1850.70001            | 0.0054                | 1914.300009           | 0.0047                |
| 3.8                                | 1850.699997           | -0.0016               | 1914.300001           | 0.0005                |
| 4.4                                | 1850.700009           | 0.0049                | 1914.30001            | 0.0052                |

Note: The applicant defined the normal working voltage is from 3.23 to 4.4 Vdc.

| Frequency Stability Versus Temperature |                       |                       |                       |                       |
|----------------------------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| Temperature (°C)                       | CH 26047 (1850.7 MHz) |                       | CH 26683 (1914.3 MHz) |                       |
|                                        | Frequency (MHz)       | Frequency Error (ppm) | Frequency (MHz)       | Frequency Error (ppm) |
| -30                                    | 1850.700004           | 0.0022                | 1914.300001           | 0.0005                |
| -20                                    | 1850.699994           | -0.0032               | 1914.29999            | -0.0052               |
| -10                                    | 1850.700001           | 0.0005                | 1914.300001           | 0.0005                |
| 0                                      | 1850.700002           | 0.0011                | 1914.300001           | 0.0005                |
| 10                                     | 1850.699996           | -0.0022               | 1914.299996           | -0.0021               |
| 20                                     | 1850.700002           | 0.0011                | 1914.300006           | 0.0031                |
| 30                                     | 1850.699998           | -0.0011               | 1914.299997           | -0.0016               |
| 40                                     | 1850.700004           | 0.0022                | 1914.300004           | 0.0021                |
| 50                                     | 1850.700002           | 0.0011                | 1914.300001           | 0.0005                |
| 60                                     | 1850.700008           | 0.0043                | 1914.300008           | 0.0042                |
| 70                                     | 1850.699991           | -0.0049               | 1914.299994           | -0.0031               |
| 75                                     | 1850.700007           | 0.0038                | 1914.300008           | 0.0042                |

# LTE Band 25, Channel Bandwidth: 3 MHz

| Frequency Stability Versus Voltage |                       |                       |                       |                       |
|------------------------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| Voltage (Vdc)                      | CH 26055 (1851.5 MHz) |                       | CH 26675 (1913.5 MHz) |                       |
|                                    | Frequency (MHz)       | Frequency Error (ppm) | Frequency (MHz)       | Frequency Error (ppm) |
| 3.23                               | 1851.499999           | -0.0005               | 1913.500001           | 0.0005                |
| 3.8                                | 1851.500009           | 0.0049                | 1913.50001            | 0.0052                |
| 4.4                                | 1851.500002           | 0.0011                | 1913.500001           | 0.0005                |

Note: The applicant defined the normal working voltage is from 3.23 to 4.4 Vdc.

| Frequency Stability Versus Temperature |                       |                       |                       |                       |
|----------------------------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| Temperature (°C)                       | CH 26055 (1851.5 MHz) |                       | CH 26675 (1913.5 MHz) |                       |
|                                        | Frequency (MHz)       | Frequency Error (ppm) | Frequency (MHz)       | Frequency Error (ppm) |
| -30                                    | 1851.499997           | -0.0016               | 1913.500001           | 0.0005                |
| -20                                    | 1851.499991           | -0.0049               | 1913.499995           | -0.0026               |
| -10                                    | 1851.499994           | -0.0032               | 1913.499997           | -0.0016               |
| 0                                      | 1851.500008           | 0.0043                | 1913.500005           | 0.0026                |
| 10                                     | 1851.499999           | -0.0005               | 1913.499996           | -0.0021               |
| 20                                     | 1851.499994           | -0.0032               | 1913.49999            | -0.0052               |
| 30                                     | 1851.499998           | -0.0011               | 1913.499997           | -0.0016               |
| 40                                     | 1851.500006           | 0.0032                | 1913.500006           | 0.0031                |
| 50                                     | 1851.500004           | 0.0022                | 1913.500007           | 0.0037                |
| 60                                     | 1851.500004           | 0.0022                | 1913.500008           | 0.0042                |
| 70                                     | 1851.499996           | -0.0022               | 1913.499994           | -0.0031               |
| 75                                     | 1851.500004           | 0.0022                | 1913.500006           | 0.0031                |

# LTE Band 25, Channel Bandwidth: 5 MHz

| Frequency Stability Versus Voltage |                       |                       |                       |                       |
|------------------------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| Voltage (Vdc)                      | CH 26065 (1852.5 MHz) |                       | CH 26665 (1912.5 MHz) |                       |
|                                    | Frequency (MHz)       | Frequency Error (ppm) | Frequency (MHz)       | Frequency Error (ppm) |
| 3.23                               | 1852.500008           | 0.0043                | 1912.500007           | 0.0037                |
| 3.8                                | 1852.49999            | -0.0054               | 1912.499991           | -0.0047               |
| 4.4                                | 1852.500007           | 0.0038                | 1912.500007           | 0.0037                |

Note: The applicant defined the normal working voltage is from 3.23 to 4.4 Vdc.

| Frequency Stability Versus Temperature |                       |                       |                       |                       |
|----------------------------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| Temperature (°C)                       | CH 26065 (1852.5 MHz) |                       | CH 26665 (1912.5 MHz) |                       |
|                                        | Frequency (MHz)       | Frequency Error (ppm) | Frequency (MHz)       | Frequency Error (ppm) |
| -30                                    | 1852.500002           | 0.0011                | 1912.500007           | 0.0037                |
| -20                                    | 1852.499993           | -0.0038               | 1912.499997           | -0.0016               |
| -10                                    | 1852.500001           | 0.0005                | 1912.500001           | 0.0005                |
| 0                                      | 1852.499999           | -0.0005               | 1912.499998           | -0.001                |
| 10                                     | 1852.500001           | 0.0005                | 1912.499998           | -0.001                |
| 20                                     | 1852.499992           | -0.0043               | 1912.49999            | -0.0052               |
| 30                                     | 1852.500007           | 0.0038                | 1912.500006           | 0.0031                |
| 40                                     | 1852.499991           | -0.0049               | 1912.49999            | -0.0052               |
| 50                                     | 1852.499999           | -0.0005               | 1912.499999           | -0.0005               |
| 60                                     | 1852.499997           | -0.0016               | 1912.5                | 0                     |
| 70                                     | 1852.499998           | -0.0011               | 1912.500003           | 0.0016                |
| 75                                     | 1852.500003           | 0.0016                | 1912.500004           | 0.0021                |

# LTE Band 25, Channel Bandwidth: 10 MHz

| Frequency Stability Versus Voltage |                     |                       |                     |                       |
|------------------------------------|---------------------|-----------------------|---------------------|-----------------------|
| Voltage (Vdc)                      | CH 26090 (1855 MHz) |                       | CH 26640 (1910 MHz) |                       |
|                                    | Frequency (MHz)     | Frequency Error (ppm) | Frequency (MHz)     | Frequency Error (ppm) |
| 3.23                               | 1854.999997         | -0.0016               | 1910.000003         | 0.0016                |
| 3.8                                | 1855.000001         | 0.0005                | 1910.000003         | 0.0016                |
| 4.4                                | 1855.000003         | 0.0016                | 1910.000007         | 0.0037                |

Note: The applicant defined the normal working voltage is from 3.23 to 4.4 Vdc.

| Frequency Stability Versus Temperature |                     |                       |                     |                       |
|----------------------------------------|---------------------|-----------------------|---------------------|-----------------------|
| Temperature (°C)                       | CH 26090 (1855 MHz) |                       | CH 26640 (1910 MHz) |                       |
|                                        | Frequency (MHz)     | Frequency Error (ppm) | Frequency (MHz)     | Frequency Error (ppm) |
| -30                                    | 1855.000001         | 0.0005                | 1910.000001         | 0.0005                |
| -20                                    | 1854.999996         | -0.0022               | 1909.999991         | -0.0047               |
| -10                                    | 1855.000001         | 0.0005                | 1910.000006         | 0.0031                |
| 0                                      | 1854.999994         | -0.0032               | 1909.999994         | -0.0031               |
| 10                                     | 1854.999993         | -0.0038               | 1909.999993         | -0.0037               |
| 20                                     | 1854.999994         | -0.0032               | 1909.999992         | -0.0042               |
| 30                                     | 1855.000005         | 0.0027                | 1910.000005         | 0.0026                |
| 40                                     | 1855.000001         | 0.0005                | 1909.999999         | -0.0005               |
| 50                                     | 1855.000005         | 0.0027                | 1910.000007         | 0.0037                |
| 60                                     | 1855.000007         | 0.0038                | 1910.000005         | 0.0026                |
| 70                                     | 1855.000005         | 0.0027                | 1910.000008         | 0.0042                |
| 75                                     | 1855.000006         | 0.0032                | 1910.000004         | 0.0021                |

# LTE Band 25, Channel Bandwidth: 15 MHz

| Frequency Stability Versus Voltage |                       |                       |                       |                       |
|------------------------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| Voltage (Vdc)                      | CH 26115 (1857.5 MHz) |                       | CH 26615 (1907.5 MHz) |                       |
|                                    | Frequency (MHz)       | Frequency Error (ppm) | Frequency (MHz)       | Frequency Error (ppm) |
| 3.23                               | 1857.499997           | -0.0016               | 1907.500002           | 0.001                 |
| 3.8                                | 1857.500006           | 0.0032                | 1907.500008           | 0.0042                |
| 4.4                                | 1857.499991           | -0.0048               | 1907.499992           | -0.0042               |

Note: The applicant defined the normal working voltage is from 3.23 to 4.4 Vdc.

| Frequency Stability Versus Temperature |                       |                       |                       |                       |
|----------------------------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| Temperature (°C)                       | CH 26115 (1857.5 MHz) |                       | CH 26615 (1907.5 MHz) |                       |
|                                        | Frequency (MHz)       | Frequency Error (ppm) | Frequency (MHz)       | Frequency Error (ppm) |
| -30                                    | 1857.500008           | 0.0043                | 1907.500006           | 0.0031                |
| -20                                    | 1857.500003           | 0.0016                | 1907.499998           | -0.001                |
| -10                                    | 1857.500009           | 0.0048                | 1907.500006           | 0.0031                |
| 0                                      | 1857.500002           | 0.0011                | 1907.500001           | 0.0005                |
| 10                                     | 1857.499993           | -0.0038               | 1907.499991           | -0.0047               |
| 20                                     | 1857.500008           | 0.0043                | 1907.500004           | 0.0021                |
| 30                                     | 1857.499992           | -0.0043               | 1907.499991           | -0.0047               |
| 40                                     | 1857.500001           | 0.0005                | 1907.500001           | 0.0005                |
| 50                                     | 1857.499998           | -0.0011               | 1907.500002           | 0.001                 |
| 60                                     | 1857.499993           | -0.0038               | 1907.499999           | -0.0052               |
| 70                                     | 1857.499997           | -0.0016               | 1907.499996           | -0.0021               |
| 75                                     | 1857.500006           | 0.0032                | 1907.500005           | 0.0026                |

# LTE Band 25, Channel Bandwidth: 20 MHz

| Frequency Stability Versus Voltage |                     |                       |                     |                       |
|------------------------------------|---------------------|-----------------------|---------------------|-----------------------|
| Voltage (Vdc)                      | CH 26140 (1860 MHz) |                       | CH 26590 (1905 MHz) |                       |
|                                    | Frequency (MHz)     | Frequency Error (ppm) | Frequency (MHz)     | Frequency Error (ppm) |
| 3.23                               | 1859.999999         | -0.0005               | 1905.000001         | 0.0005                |
| 3.8                                | 1860.000008         | 0.0043                | 1905.000006         | 0.0031                |
| 4.4                                | 1860.000002         | 0.0011                | 1905.000003         | 0.0016                |

Note: The applicant defined the normal working voltage is from 3.23 to 4.4 Vdc.

| Frequency Stability Versus Temperature |                     |                       |                     |                       |
|----------------------------------------|---------------------|-----------------------|---------------------|-----------------------|
| Temperature (°C)                       | CH 26140 (1860 MHz) |                       | CH 26590 (1905 MHz) |                       |
|                                        | Frequency (MHz)     | Frequency Error (ppm) | Frequency (MHz)     | Frequency Error (ppm) |
| -30                                    | 1859.999991         | -0.0048               | 1904.999992         | -0.0042               |
| -20                                    | 1859.99999          | -0.0054               | 1904.999995         | -0.0026               |
| -10                                    | 1860.000001         | 0.0005                | 1904.999998         | -0.001                |
| 0                                      | 1860.000004         | 0.0022                | 1904.999997         | -0.0016               |
| 10                                     | 1859.999996         | -0.0022               | 1904.999999         | -0.0005               |
| 20                                     | 1859.999997         | -0.0016               | 1904.999997         | -0.0016               |
| 30                                     | 1859.999999         | -0.0005               | 1905.000002         | 0.001                 |
| 40                                     | 1860.000004         | 0.0022                | 1905.000001         | 0.0005                |
| 50                                     | 1860.000002         | 0.0011                | 1904.999998         | -0.001                |
| 60                                     | 1860.000008         | 0.0043                | 1905.000001         | 0.0052                |
| 70                                     | 1859.999998         | -0.0011               | 1905.000004         | 0.0021                |
| 75                                     | 1859.999991         | -0.0048               | 1904.999994         | -0.0031               |

### 7.8.7 LTE Band 26 (814 MHz ~ 824 MHz)

#### LTE Band 26 (814 MHz ~ 824 MHz), Channel Bandwidth: 1.4 MHz

| Frequency Stability Versus Voltage |                      |                       |                      |                       |
|------------------------------------|----------------------|-----------------------|----------------------|-----------------------|
| Voltage (Vdc)                      | CH 26697 (814.7 MHz) |                       | CH 26783 (823.3 MHz) |                       |
|                                    | Frequency (MHz)      | Frequency Error (ppm) | Frequency (MHz)      | Frequency Error (ppm) |
| 3.23                               | 814.69999            | -0.0123               | 823.29999            | -0.0121               |
| 3.8                                | 814.699997           | -0.0037               | 823.300001           | 0.0012                |
| 4.4                                | 814.70001            | 0.0123                | 823.300008           | 0.0097                |

Note: The applicant defined the normal working voltage is from 3.23 to 4.4 Vdc.

| Frequency Stability Versus Temperature |                      |                       |                      |                       |
|----------------------------------------|----------------------|-----------------------|----------------------|-----------------------|
| Temperature (°C)                       | CH 26697 (814.7 MHz) |                       | CH 26783 (823.3 MHz) |                       |
|                                        | Frequency (MHz)      | Frequency Error (ppm) | Frequency (MHz)      | Frequency Error (ppm) |
| -30                                    | 814.700004           | 0.0049                | 823.300007           | 0.0085                |
| -20                                    | 814.70001            | 0.0123                | 823.30001            | 0.0121                |
| -10                                    | 814.700001           | 0.0012                | 823.300002           | 0.0024                |
| 0                                      | 814.700001           | 0.0012                | 823.300002           | 0.0024                |
| 10                                     | 814.699992           | -0.0098               | 823.29999            | -0.0121               |
| 20                                     | 814.699993           | -0.0086               | 823.299993           | -0.0085               |
| 30                                     | 814.700001           | 0.0012                | 823.300002           | 0.0024                |
| 40                                     | 814.699999           | -0.0012               | 823.300003           | 0.0036                |
| 50                                     | 814.699994           | -0.0074               | 823.29999            | -0.0121               |
| 60                                     | 814.700005           | 0.0061                | 823.300004           | 0.0049                |
| 70                                     | 814.699999           | -0.0012               | 823.300003           | 0.0036                |
| 75                                     | 814.699998           | -0.0025               | 823.299998           | -0.0024               |



**LTE Band 26 (814 MHz ~ 824 MHz), Channel Bandwidth: 3 MHz**

| Frequency Stability Versus Voltage |                      |                       |                      |                       |
|------------------------------------|----------------------|-----------------------|----------------------|-----------------------|
| Voltage (Vdc)                      | CH 26705 (815.5 MHz) |                       | CH 26775 (822.5 MHz) |                       |
|                                    | Frequency (MHz)      | Frequency Error (ppm) | Frequency (MHz)      | Frequency Error (ppm) |
| 3.23                               | 815.500005           | 0.0061                | 822.500007           | 0.0085                |
| 3.8                                | 815.499997           | -0.0037               | 822.499998           | -0.0024               |
| 4.4                                | 815.499992           | -0.0098               | 822.499991           | -0.0109               |

Note: The applicant defined the normal working voltage is from 3.23 to 4.4 Vdc.

| Frequency Stability Versus Temperature |                      |                       |                      |                       |
|----------------------------------------|----------------------|-----------------------|----------------------|-----------------------|
| Temperature (°C)                       | CH 26705 (815.5 MHz) |                       | CH 26775 (822.5 MHz) |                       |
|                                        | Frequency (MHz)      | Frequency Error (ppm) | Frequency (MHz)      | Frequency Error (ppm) |
| -30                                    | 815.500006           | 0.0074                | 822.500001           | 0.0012                |
| -20                                    | 815.500002           | 0.0025                | 822.500007           | 0.0085                |
| -10                                    | 815.500001           | 0.0012                | 822.499996           | -0.0049               |
| 0                                      | 815.499997           | -0.0037               | 822.500001           | 0.0012                |
| 10                                     | 815.499998           | -0.0025               | 822.499999           | -0.0012               |
| 20                                     | 815.500003           | 0.0037                | 822.500003           | 0.0036                |
| 30                                     | 815.500003           | 0.0037                | 822.500004           | 0.0049                |
| 40                                     | 815.500003           | 0.0037                | 822.500006           | 0.0073                |
| 50                                     | 815.500009           | 0.011                 | 822.500008           | 0.0097                |
| 60                                     | 815.499999           | -0.0012               | 822.500001           | 0.0012                |
| 70                                     | 815.500007           | 0.0086                | 822.500005           | 0.0061                |
| 75                                     | 815.500002           | 0.0025                | 822.499999           | -0.0012               |

# LTE Band 26 (814 MHz ~ 824 MHz), Channel Bandwidth: 5 MHz

| Frequency Stability Versus Voltage |                      |                       |                      |                       |
|------------------------------------|----------------------|-----------------------|----------------------|-----------------------|
| Voltage (Vdc)                      | CH 26715 (816.5 MHz) |                       | CH 26765 (821.5 MHz) |                       |
|                                    | Frequency (MHz)      | Frequency Error (ppm) | Frequency (MHz)      | Frequency Error (ppm) |
| 3.23                               | 816.50001            | 0.0122                | 821.500005           | 0.0061                |
| 3.8                                | 816.500003           | 0.0037                | 821.500006           | 0.0073                |
| 4.4                                | 816.499993           | -0.0086               | 821.499991           | -0.011                |

Note: The applicant defined the normal working voltage is from 3.23 to 4.4 Vdc.

| Frequency Stability Versus Temperature |                      |                       |                      |                       |
|----------------------------------------|----------------------|-----------------------|----------------------|-----------------------|
| Temperature (°C)                       | CH 26715 (816.5 MHz) |                       | CH 26765 (821.5 MHz) |                       |
|                                        | Frequency (MHz)      | Frequency Error (ppm) | Frequency (MHz)      | Frequency Error (ppm) |
| -30                                    | 816.499992           | -0.0098               | 821.499994           | -0.0073               |
| -20                                    | 816.500002           | 0.0024                | 821.500003           | 0.0037                |
| -10                                    | 816.500002           | 0.0024                | 821.500004           | 0.0049                |
| 0                                      | 816.499998           | -0.0024               | 821.499998           | -0.0024               |
| 10                                     | 816.500003           | 0.0037                | 821.500008           | 0.0097                |
| 20                                     | 816.500001           | 0.0012                | 821.499997           | -0.0037               |
| 30                                     | 816.500001           | 0.0012                | 821.499999           | -0.0012               |
| 40                                     | 816.499998           | -0.0024               | 821.499995           | -0.0061               |
| 50                                     | 816.500004           | 0.0049                | 821.500002           | 0.0024                |
| 60                                     | 816.500007           | 0.0086                | 821.500001           | 0.0122                |
| 70                                     | 816.499999           | -0.0012               | 821.499997           | -0.0037               |
| 75                                     | 816.500003           | 0.0037                | 821.500003           | 0.0037                |

**LTE Band 26 (814 MHz ~ 824 MHz), Channel Bandwidth: 10 MHz**

| Frequency Stability Versus Voltage |                    |                       |
|------------------------------------|--------------------|-----------------------|
| Voltage (Vdc)                      | CH 26740 (819 MHz) |                       |
|                                    | Frequency (MHz)    | Frequency Error (ppm) |
| 3.23                               | 818.999996         | -0.0049               |
| 3.8                                | 819.000001         | 0.0012                |
| 4.4                                | 819.000005         | 0.0061                |

Note: The applicant defined the normal working voltage is from 3.23 to 4.4 Vdc.

| Frequency Stability Versus Temperature |                    |                       |
|----------------------------------------|--------------------|-----------------------|
| Temperature (°C)                       | CH 26740 (819 MHz) |                       |
|                                        | Frequency (MHz)    | Frequency Error (ppm) |
| -30                                    | 818.999998         | -0.0024               |
| -20                                    | 818.999998         | -0.0024               |
| -10                                    | 818.999993         | -0.0085               |
| 0                                      | 818.999993         | -0.0085               |
| 10                                     | 819.000004         | 0.0049                |
| 20                                     | 819.000007         | 0.0085                |
| 30                                     | 818.999992         | -0.0098               |
| 40                                     | 819.000003         | 0.0037                |
| 50                                     | 818.999999         | -0.0122               |
| 60                                     | 819.000002         | 0.0024                |
| 70                                     | 818.999992         | -0.0098               |
| 75                                     | 818.999999         | -0.0012               |

### 7.8.8 LTE Band 26 (824 MHz ~ 849 MHz)

#### LTE Band 26 (824 MHz ~ 849 MHz), Channel Bandwidth: 1.4 MHz

| Frequency Stability Versus Voltage |                      |                       |                      |                       |
|------------------------------------|----------------------|-----------------------|----------------------|-----------------------|
| Voltage (Vdc)                      | CH 26797 (824.7 MHz) |                       | CH 27033 (848.3 MHz) |                       |
|                                    | Frequency (MHz)      | Frequency Error (ppm) | Frequency (MHz)      | Frequency Error (ppm) |
| 3.23                               | 824.700003           | 0.0036                | 848.300002           | 0.0024                |
| 3.8                                | 824.699998           | -0.0024               | 848.299996           | -0.0047               |
| 4.4                                | 824.700002           | 0.0024                | 848.300003           | 0.0035                |

Note: The applicant defined the normal working voltage is from 3.23 to 4.4 Vdc.

| Frequency Stability Versus Temperature |                      |                       |                      |                       |
|----------------------------------------|----------------------|-----------------------|----------------------|-----------------------|
| Temperature (°C)                       | CH 26797 (824.7 MHz) |                       | CH 27033 (848.3 MHz) |                       |
|                                        | Frequency (MHz)      | Frequency Error (ppm) | Frequency (MHz)      | Frequency Error (ppm) |
| -30                                    | 824.70001            | 0.0121                | 848.300007           | 0.0083                |
| -20                                    | 824.699993           | -0.0085               | 848.299993           | -0.0083               |
| -10                                    | 824.700001           | 0.0012                | 848.300004           | 0.0047                |
| 0                                      | 824.700009           | 0.0109                | 848.300005           | 0.0059                |
| 10                                     | 824.700002           | 0.0024                | 848.299999           | -0.0012               |
| 20                                     | 824.700006           | 0.0073                | 848.300002           | 0.0024                |
| 30                                     | 824.700004           | 0.0049                | 848.300007           | 0.0083                |
| 40                                     | 824.699994           | -0.0073               | 848.299993           | -0.0083               |
| 50                                     | 824.699993           | -0.0085               | 848.299996           | -0.0047               |
| 60                                     | 824.700003           | 0.0036                | 848.300005           | 0.0059                |
| 70                                     | 824.700003           | 0.0036                | 848.300005           | 0.0059                |
| 75                                     | 824.699999           | -0.0012               | 848.299997           | -0.0035               |

**LTE Band 26 (824 MHz ~ 849 MHz), Channel Bandwidth: 3 MHz**

| Frequency Stability Versus Voltage |                      |                       |                      |                       |
|------------------------------------|----------------------|-----------------------|----------------------|-----------------------|
| Voltage (Vdc)                      | CH 26805 (825.5 MHz) |                       | CH 27025 (847.5 MHz) |                       |
|                                    | Frequency (MHz)      | Frequency Error (ppm) | Frequency (MHz)      | Frequency Error (ppm) |
| 3.23                               | 825.499999           | -0.0012               | 847.499994           | -0.0071               |
| 3.8                                | 825.500001           | 0.0012                | 847.499999           | -0.0012               |
| 4.4                                | 825.500002           | 0.0024                | 847.500004           | 0.0047                |

Note: The applicant defined the normal working voltage is from 3.23 to 4.4 Vdc.

| Frequency Stability Versus Temperature |                      |                       |                      |                       |
|----------------------------------------|----------------------|-----------------------|----------------------|-----------------------|
| Temperature (°C)                       | CH 26805 (825.5 MHz) |                       | CH 27025 (847.5 MHz) |                       |
|                                        | Frequency (MHz)      | Frequency Error (ppm) | Frequency (MHz)      | Frequency Error (ppm) |
| -30                                    | 825.500004           | 0.0048                | 847.500004           | 0.0047                |
| -20                                    | 825.499991           | -0.0109               | 847.499992           | -0.0094               |
| -10                                    | 825.499991           | -0.0109               | 847.499993           | -0.0083               |
| 0                                      | 825.500003           | 0.0036                | 847.500002           | 0.0024                |
| 10                                     | 825.500006           | 0.0073                | 847.500007           | 0.0083                |
| 20                                     | 825.499999           | -0.0012               | 847.500001           | 0.0012                |
| 30                                     | 825.500009           | 0.0109                | 847.500001           | 0.0118                |
| 40                                     | 825.500002           | 0.0024                | 847.500001           | 0.0012                |
| 50                                     | 825.499992           | -0.0097               | 847.499993           | -0.0083               |
| 60                                     | 825.499991           | -0.0109               | 847.499996           | -0.0047               |
| 70                                     | 825.499994           | -0.0073               | 847.499994           | -0.0071               |
| 75                                     | 825.499995           | -0.0061               | 847.499993           | -0.0083               |

# LTE Band 26 (824 MHz ~ 849 MHz), Channel Bandwidth: 5 MHz

| Frequency Stability Versus Voltage |                      |                       |                      |                       |
|------------------------------------|----------------------|-----------------------|----------------------|-----------------------|
| Voltage (Vdc)                      | CH 26815 (826.5 MHz) |                       | CH 27015 (846.5 MHz) |                       |
|                                    | Frequency (MHz)      | Frequency Error (ppm) | Frequency (MHz)      | Frequency Error (ppm) |
| 3.23                               | 826.500007           | 0.0085                | 846.500008           | 0.0095                |
| 3.8                                | 826.500001           | 0.0012                | 846.500003           | 0.0035                |
| 4.4                                | 826.500006           | 0.0073                | 846.500008           | 0.0095                |

Note: The applicant defined the normal working voltage is from 3.23 to 4.4 Vdc.

| Frequency Stability Versus Temperature |                      |                       |                      |                       |
|----------------------------------------|----------------------|-----------------------|----------------------|-----------------------|
| Temperature (°C)                       | CH 26815 (826.5 MHz) |                       | CH 27015 (846.5 MHz) |                       |
|                                        | Frequency (MHz)      | Frequency Error (ppm) | Frequency (MHz)      | Frequency Error (ppm) |
| -30                                    | 826.499993           | -0.0085               | 846.499994           | -0.0071               |
| -20                                    | 826.499991           | -0.0109               | 846.499995           | -0.0059               |
| -10                                    | 826.499998           | -0.0024               | 846.500002           | 0.0024                |
| 0                                      | 826.499992           | -0.0097               | 846.499996           | -0.0047               |
| 10                                     | 826.500002           | 0.0024                | 846.499999           | -0.0012               |
| 20                                     | 826.500009           | 0.0109                | 846.500007           | 0.0083                |
| 30                                     | 826.500002           | 0.0024                | 846.499997           | -0.0035               |
| 40                                     | 826.499997           | -0.0036               | 846.499995           | -0.0059               |
| 50                                     | 826.499991           | -0.0109               | 846.499993           | -0.0083               |
| 60                                     | 826.500007           | 0.0085                | 846.500004           | 0.0047                |
| 70                                     | 826.500008           | 0.0097                | 846.500009           | 0.0106                |
| 75                                     | 826.500002           | 0.0024                | 846.500001           | 0.0012                |

# LTE Band 26 (824 MHz ~ 849 MHz), Channel Bandwidth: 10 MHz

| Frequency Stability Versus Voltage |                    |                       |                    |                       |
|------------------------------------|--------------------|-----------------------|--------------------|-----------------------|
| Voltage (Vdc)                      | CH 26840 (829 MHz) |                       | CH 26990 (844 MHz) |                       |
|                                    | Frequency (MHz)    | Frequency Error (ppm) | Frequency (MHz)    | Frequency Error (ppm) |
| 3.23                               | 828.999994         | -0.0072               | 843.999994         | -0.0071               |
| 3.8                                | 828.999999         | -0.0012               | 844.000002         | 0.0024                |
| 4.4                                | 829.000007         | 0.0084                | 844.00001          | 0.0118                |

Note: The applicant defined the normal working voltage is from 3.23 to 4.4 Vdc.

| Frequency Stability Versus Temperature |                    |                       |                    |                       |
|----------------------------------------|--------------------|-----------------------|--------------------|-----------------------|
| Temperature (°C)                       | CH 26840 (829 MHz) |                       | CH 26990 (844 MHz) |                       |
|                                        | Frequency (MHz)    | Frequency Error (ppm) | Frequency (MHz)    | Frequency Error (ppm) |
| -30                                    | 828.999994         | -0.0072               | 843.999994         | -0.0071               |
| -20                                    | 828.999997         | -0.0036               | 843.999992         | -0.0095               |
| -10                                    | 829.000004         | 0.0048                | 844.000006         | 0.0071                |
| 0                                      | 828.999993         | -0.0084               | 843.999995         | -0.0059               |
| 10                                     | 829.000006         | 0.0072                | 844.000001         | 0.0012                |
| 20                                     | 828.999995         | -0.006                | 843.999996         | -0.0047               |
| 30                                     | 829.000008         | 0.0097                | 844.00001          | 0.0118                |
| 40                                     | 828.999998         | -0.0024               | 844.000002         | 0.0024                |
| 50                                     | 828.999997         | -0.0036               | 843.999995         | -0.0059               |
| 60                                     | 829.000007         | 0.0084                | 844.000004         | 0.0047                |
| 70                                     | 829.000002         | 0.0024                | 844.000002         | 0.0024                |
| 75                                     | 828.999998         | -0.0024               | 844.000002         | 0.0024                |

**LTE Band 26 (824 MHz ~ 849 MHz), Channel Bandwidth: 15 MHz**

| Frequency Stability Versus Voltage |                      |                       |                      |                       |
|------------------------------------|----------------------|-----------------------|----------------------|-----------------------|
| Voltage (Vdc)                      | CH 26865 (831.5 MHz) |                       | CH 26965 (841.5 MHz) |                       |
|                                    | Frequency (MHz)      | Frequency Error (ppm) | Frequency (MHz)      | Frequency Error (ppm) |
| 3.23                               | 831.499998           | -0.0024               | 841.499999           | -0.0012               |
| 3.8                                | 831.500001           | 0.0012                | 841.500003           | 0.0036                |
| 4.4                                | 831.500006           | 0.0072                | 841.500003           | 0.0036                |

Note: The applicant defined the normal working voltage is from 3.23 to 4.4 Vdc.

| Frequency Stability Versus Temperature |                      |                       |                      |                       |
|----------------------------------------|----------------------|-----------------------|----------------------|-----------------------|
| Temperature (°C)                       | CH 26865 (831.5 MHz) |                       | CH 26965 (841.5 MHz) |                       |
|                                        | Frequency (MHz)      | Frequency Error (ppm) | Frequency (MHz)      | Frequency Error (ppm) |
| -30                                    | 831.500003           | 0.0036                | 841.499999           | -0.0012               |
| -20                                    | 831.500009           | 0.0108                | 841.500007           | 0.0083                |
| -10                                    | 831.499999           | -0.0012               | 841.500001           | 0.0012                |
| 0                                      | 831.499993           | -0.0084               | 841.499997           | -0.0036               |
| 10                                     | 831.499992           | -0.0096               | 841.499992           | -0.0095               |
| 20                                     | 831.499999           | -0.0012               | 841.499994           | -0.0071               |
| 30                                     | 831.499991           | -0.0108               | 841.499993           | -0.0083               |
| 40                                     | 831.499991           | -0.0108               | 841.499999           | -0.0119               |
| 50                                     | 831.500004           | 0.0048                | 841.500008           | 0.0095                |
| 60                                     | 831.500008           | 0.0096                | 841.500005           | 0.0059                |
| 70                                     | 831.499998           | -0.0024               | 841.499998           | -0.0024               |
| 75                                     | 831.500004           | 0.0048                | 841.500002           | 0.0024                |



### 7.8.9 LTE Band 38

#### LTE Band 38, Channel Bandwidth: 5 MHz

| Frequency Stability Versus Voltage |                       |                       |                       |                       |
|------------------------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| Voltage (Vdc)                      | CH 37775 (2572.5 MHz) |                       | CH 38225 (2617.5 MHz) |                       |
|                                    | Frequency (MHz)       | Frequency Error (ppm) | Frequency (MHz)       | Frequency Error (ppm) |
| 3.23                               | 2572.500002           | 0.0008                | 2617.500002           | 0.0008                |
| 3.8                                | 2572.500006           | 0.0023                | 2617.500001           | 0.0038                |
| 4.4                                | 2572.500009           | 0.0035                | 2617.500008           | 0.0031                |

Note: The applicant defined the normal working voltage is from 3.23 to 4.4 Vdc.

| Frequency Stability Versus Temperature |                       |                       |                       |                       |
|----------------------------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| Temperature (°C)                       | CH 37775 (2572.5 MHz) |                       | CH 38225 (2617.5 MHz) |                       |
|                                        | Frequency (MHz)       | Frequency Error (ppm) | Frequency (MHz)       | Frequency Error (ppm) |
| -30                                    | 2572.500001           | 0.0004                | 2617.500001           | 0.0004                |
| -20                                    | 2572.499992           | -0.0031               | 2617.499994           | -0.0023               |
| -10                                    | 2572.500006           | 0.0023                | 2617.500003           | 0.0011                |
| 0                                      | 2572.500005           | 0.0019                | 2617.500008           | 0.0031                |
| 10                                     | 2572.499992           | -0.0031               | 2617.499994           | -0.0023               |
| 20                                     | 2572.500009           | 0.0035                | 2617.500008           | 0.0031                |
| 30                                     | 2572.499999           | -0.0004               | 2617.500004           | 0.0015                |
| 40                                     | 2572.499993           | -0.0027               | 2617.499992           | -0.0031               |
| 50                                     | 2572.500008           | 0.0031                | 2617.500006           | 0.0023                |
| 60                                     | 2572.500008           | 0.0031                | 2617.500007           | 0.0027                |
| 70                                     | 2572.500004           | 0.0016                | 2617.500001           | 0.0004                |
| 75                                     | 2572.500004           | 0.0016                | 2617.500008           | 0.0031                |

# LTE Band 38, Channel Bandwidth: 10 MHz

| Frequency Stability Versus Voltage |                     |                       |                     |                       |
|------------------------------------|---------------------|-----------------------|---------------------|-----------------------|
| Voltage (Vdc)                      | CH 37800 (2575 MHz) |                       | CH 38200 (2615 MHz) |                       |
|                                    | Frequency (MHz)     | Frequency Error (ppm) | Frequency (MHz)     | Frequency Error (ppm) |
| 3.23                               | 2575.000006         | 0.0023                | 2615.000003         | 0.0011                |
| 3.8                                | 2575.000007         | 0.0027                | 2615.000005         | 0.0019                |
| 4.4                                | 2575.000009         | 0.0035                | 2615.000006         | 0.0023                |

Note: The applicant defined the normal working voltage is from 3.23 to 4.4 Vdc.

| Frequency Stability Versus Temperature |                     |                       |                     |                       |
|----------------------------------------|---------------------|-----------------------|---------------------|-----------------------|
| Temperature (°C)                       | CH 37800 (2575 MHz) |                       | CH 38200 (2615 MHz) |                       |
|                                        | Frequency (MHz)     | Frequency Error (ppm) | Frequency (MHz)     | Frequency Error (ppm) |
| -30                                    | 2574.999996         | -0.0016               | 2615.000002         | 0.0008                |
| -20                                    | 2574.999993         | -0.0027               | 2614.999993         | -0.0027               |
| -10                                    | 2575.000005         | 0.0019                | 2615.000009         | 0.0034                |
| 0                                      | 2575.000009         | 0.0035                | 2615.000005         | 0.0019                |
| 10                                     | 2575.000002         | 0.0008                | 2615.000002         | 0.0008                |
| 20                                     | 2574.999991         | -0.0035               | 2614.99999          | -0.0038               |
| 30                                     | 2574.999994         | -0.0023               | 2614.999993         | -0.0027               |
| 40                                     | 2574.999993         | -0.0027               | 2614.999996         | -0.0015               |
| 50                                     | 2575.000004         | 0.0016                | 2615.000006         | 0.0023                |
| 60                                     | 2575.000003         | 0.0012                | 2615.000006         | 0.0023                |
| 70                                     | 2574.999999         | -0.0004               | 2615.000004         | 0.0015                |
| 75                                     | 2575.000005         | 0.0019                | 2615.000004         | 0.0015                |

# LTE Band 38, Channel Bandwidth: 15 MHz

| Frequency Stability Versus Voltage |                       |                       |                       |                       |
|------------------------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| Voltage (Vdc)                      | CH 37825 (2577.5 MHz) |                       | CH 38175 (2612.5 MHz) |                       |
|                                    | Frequency (MHz)       | Frequency Error (ppm) | Frequency (MHz)       | Frequency Error (ppm) |
| 3.23                               | 2577.500001           | 0.0004                | 2612.500002           | 0.0008                |
| 3.8                                | 2577.500007           | 0.0027                | 2612.500009           | 0.0034                |
| 4.4                                | 2577.500004           | 0.0016                | 2612.500005           | 0.0019                |

Note: The applicant defined the normal working voltage is from 3.23 to 4.4 Vdc.

| Frequency Stability Versus Temperature |                       |                       |                       |                       |
|----------------------------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| Temperature (°C)                       | CH 37825 (2577.5 MHz) |                       | CH 38175 (2612.5 MHz) |                       |
|                                        | Frequency (MHz)       | Frequency Error (ppm) | Frequency (MHz)       | Frequency Error (ppm) |
| -30                                    | 2577.499991           | -0.0035               | 2612.499992           | -0.0031               |
| -20                                    | 2577.499994           | -0.0023               | 2612.49999            | -0.0038               |
| -10                                    | 2577.500006           | 0.0023                | 2612.500007           | 0.0027                |
| 0                                      | 2577.500001           | 0.0039                | 2612.500006           | 0.0023                |
| 10                                     | 2577.500005           | 0.0019                | 2612.500007           | 0.0027                |
| 20                                     | 2577.500002           | 0.0008                | 2612.500002           | 0.0008                |
| 30                                     | 2577.49999            | -0.0039               | 2612.500002           | 0.0008                |
| 40                                     | 2577.500009           | 0.0035                | 2612.500008           | 0.0031                |
| 50                                     | 2577.500005           | 0.0019                | 2612.500001           | 0.0038                |
| 60                                     | 2577.500005           | 0.0019                | 2612.500007           | 0.0027                |
| 70                                     | 2577.500002           | 0.0008                | 2612.500006           | 0.0023                |
| 75                                     | 2577.500008           | 0.0031                | 2612.500006           | 0.0023                |

# LTE Band 38, Channel Bandwidth: 20 MHz

| Frequency Stability Versus Voltage |                     |                       |                     |                       |
|------------------------------------|---------------------|-----------------------|---------------------|-----------------------|
| Voltage (Vdc)                      | CH 37850 (2580 MHz) |                       | CH 38150 (2610 MHz) |                       |
|                                    | Frequency (MHz)     | Frequency Error (ppm) | Frequency (MHz)     | Frequency Error (ppm) |
| 3.23                               | 2579.99999          | -0.0039               | 2609.999992         | -0.0031               |
| 3.8                                | 2579.999995         | -0.0019               | 2609.999995         | -0.0019               |
| 4.4                                | 2580.000006         | 0.0023                | 2610.000009         | 0.0034                |

Note: The applicant defined the normal working voltage is from 3.23 to 4.4 Vdc.

| Frequency Stability Versus Temperature |                     |                       |                     |                       |
|----------------------------------------|---------------------|-----------------------|---------------------|-----------------------|
| Temperature (°C)                       | CH 37850 (2580 MHz) |                       | CH 38150 (2610 MHz) |                       |
|                                        | Frequency (MHz)     | Frequency Error (ppm) | Frequency (MHz)     | Frequency Error (ppm) |
| -30                                    | 2579.999995         | -0.0019               | 2609.999993         | -0.0027               |
| -20                                    | 2579.999999         | -0.0004               | 2610.000003         | 0.0011                |
| -10                                    | 2580.000001         | 0.0004                | 2609.999997         | -0.0011               |
| 0                                      | 2579.999998         | -0.0008               | 2610.000001         | 0.0004                |
| 10                                     | 2580.000008         | 0.0031                | 2610.000006         | 0.0023                |
| 20                                     | 2579.999998         | -0.0008               | 2609.999995         | -0.0019               |
| 30                                     | 2580.000006         | 0.0023                | 2610.000008         | 0.0031                |
| 40                                     | 2580.000005         | 0.0019                | 2610.000007         | 0.0027                |
| 50                                     | 2580.000006         | 0.0023                | 2610.000006         | 0.0023                |
| 60                                     | 2579.999998         | -0.0008               | 2609.999998         | -0.0008               |
| 70                                     | 2579.999992         | -0.0031               | 2609.999993         | -0.0027               |
| 75                                     | 2579.999997         | -0.0012               | 2609.999998         | -0.0008               |

# 7.8.10 LTE Band 41

## LTE Band 41, Channel Bandwidth: 5 MHz

| Frequency Stability Versus Voltage |                       |                       |                       |                       |
|------------------------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| Voltage (Vdc)                      | CH 39675 (2498.5 MHz) |                       | CH 41565 (2687.5 MHz) |                       |
|                                    | Frequency (MHz)       | Frequency Error (ppm) | Frequency (MHz)       | Frequency Error (ppm) |
| 3.23                               | 2498.500004           | 0.0016                | 2687.500007           | 0.0026                |
| 3.8                                | 2498.500002           | 0.0008                | 2687.499998           | -0.0007               |
| 4.4                                | 2498.500003           | 0.0012                | 2687.500001           | 0.0004                |

Note: The applicant defined the normal working voltage is from 3.23 to 4.4 Vdc.

| Frequency Stability Versus Temperature |                       |                       |                       |                       |
|----------------------------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| Temperature (°C)                       | CH 39675 (2498.5 MHz) |                       | CH 41565 (2687.5 MHz) |                       |
|                                        | Frequency (MHz)       | Frequency Error (ppm) | Frequency (MHz)       | Frequency Error (ppm) |
| -30                                    | 2498.500009           | 0.0036                | 2687.500007           | 0.0026                |
| -20                                    | 2498.499991           | -0.0036               | 2687.499994           | -0.0022               |
| -10                                    | 2498.500003           | 0.0012                | 2687.500007           | 0.0026                |
| 0                                      | 2498.499993           | -0.0028               | 2687.499996           | -0.0015               |
| 10                                     | 2498.500006           | 0.0024                | 2687.500006           | 0.0022                |
| 20                                     | 2498.499996           | -0.0016               | 2687.499999           | -0.0004               |
| 30                                     | 2498.499995           | -0.002                | 2687.499995           | -0.0019               |
| 40                                     | 2498.500005           | 0.002                 | 2687.500004           | 0.0015                |
| 50                                     | 2498.500005           | 0.002                 | 2687.500005           | 0.0019                |
| 60                                     | 2498.500001           | 0.0004                | 2687.499996           | -0.0015               |
| 70                                     | 2498.500006           | 0.0024                | 2687.500009           | 0.0033                |
| 75                                     | 2498.500003           | 0.0012                | 2687.500008           | 0.003                 |

# LTE Band 41, Channel Bandwidth: 10 MHz

| Frequency Stability Versus Voltage |                     |                       |                     |                       |
|------------------------------------|---------------------|-----------------------|---------------------|-----------------------|
| Voltage (Vdc)                      | CH 39700 (2501 MHz) |                       | CH 41540 (2685 MHz) |                       |
|                                    | Frequency (MHz)     | Frequency Error (ppm) | Frequency (MHz)     | Frequency Error (ppm) |
| 3.23                               | 2501.000009         | 0.0036                | 2685.000008         | 0.003                 |
| 3.8                                | 2501.000006         | 0.0024                | 2685.000004         | 0.0015                |
| 4.4                                | 2500.999998         | -0.0008               | 2684.999996         | -0.0015               |

Note: The applicant defined the normal working voltage is from 3.23 to 4.4 Vdc.

| Frequency Stability Versus Temperature |                     |                       |                     |                       |
|----------------------------------------|---------------------|-----------------------|---------------------|-----------------------|
| Temperature (°C)                       | CH 39700 (2501 MHz) |                       | CH 41540 (2685 MHz) |                       |
|                                        | Frequency (MHz)     | Frequency Error (ppm) | Frequency (MHz)     | Frequency Error (ppm) |
| -30                                    | 2501.000001         | 0.0004                | 2685.000002         | 0.0007                |
| -20                                    | 2501.000008         | 0.0032                | 2685.000006         | 0.0022                |
| -10                                    | 2500.999996         | -0.0016               | 2684.999996         | -0.0015               |
| 0                                      | 2501.000004         | 0.0016                | 2685.000005         | 0.0019                |
| 10                                     | 2500.999993         | -0.0028               | 2684.999993         | -0.0026               |
| 20                                     | 2501.000006         | 0.0024                | 2685.000003         | 0.0011                |
| 30                                     | 2501.000001         | 0.0004                | 2685.000001         | 0.0004                |
| 40                                     | 2500.999995         | -0.002                | 2684.999999         | -0.0004               |
| 50                                     | 2500.999991         | -0.0036               | 2684.999995         | -0.0019               |
| 60                                     | 2500.999992         | -0.0032               | 2684.999995         | -0.0019               |
| 70                                     | 2501.000004         | 0.0016                | 2685.000007         | 0.0026                |
| 75                                     | 2500.999998         | -0.0008               | 2685                | 0                     |

# LTE Band 41, Channel Bandwidth: 15 MHz

| Frequency Stability Versus Voltage |                       |                       |                       |                       |
|------------------------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| Voltage (Vdc)                      | CH 39725 (2503.5 MHz) |                       | CH 41515 (2682.5 MHz) |                       |
|                                    | Frequency (MHz)       | Frequency Error (ppm) | Frequency (MHz)       | Frequency Error (ppm) |
| 3.23                               | 2503.500003           | 0.0012                | 2682.500008           | 0.003                 |
| 3.8                                | 2503.499991           | -0.0036               | 2682.499992           | -0.003                |
| 4.4                                | 2503.499998           | -0.0008               | 2682.500001           | 0.0004                |

Note: The applicant defined the normal working voltage is from 3.23 to 4.4 Vdc.

| Frequency Stability Versus Temperature |                       |                       |                       |                       |
|----------------------------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| Temperature (°C)                       | CH 39725 (2503.5 MHz) |                       | CH 41515 (2682.5 MHz) |                       |
|                                        | Frequency (MHz)       | Frequency Error (ppm) | Frequency (MHz)       | Frequency Error (ppm) |
| -30                                    | 2503.500001           | 0.0004                | 2682.500005           | 0.0019                |
| -20                                    | 2503.500002           | 0.0008                | 2682.500001           | 0.0004                |
| -10                                    | 2503.500009           | 0.0036                | 2682.500009           | 0.0034                |
| 0                                      | 2503.500002           | 0.0008                | 2682.500006           | 0.0022                |
| 10                                     | 2503.499991           | -0.0036               | 2682.499991           | -0.0034               |
| 20                                     | 2503.500005           | 0.002                 | 2682.500005           | 0.0019                |
| 30                                     | 2503.499994           | -0.0024               | 2682.499996           | -0.0015               |
| 40                                     | 2503.499993           | -0.0028               | 2682.499996           | -0.0015               |
| 50                                     | 2503.499997           | -0.0012               | 2682.499999           | -0.0004               |
| 60                                     | 2503.499998           | -0.0008               | 2682.499998           | -0.0007               |
| 70                                     | 2503.500009           | 0.0036                | 2682.500009           | 0.0034                |
| 75                                     | 2503.500004           | 0.0016                | 2682.500005           | 0.0019                |

# LTE Band 41, Channel Bandwidth: 20 MHz

| Frequency Stability Versus Voltage |                     |                       |                     |                       |
|------------------------------------|---------------------|-----------------------|---------------------|-----------------------|
| Voltage (Vdc)                      | CH 39750 (2506 MHz) |                       | CH 41490 (2680 MHz) |                       |
|                                    | Frequency (MHz)     | Frequency Error (ppm) | Frequency (MHz)     | Frequency Error (ppm) |
| 3.23                               | 2506.000009         | 0.0036                | 2680.00001          | 0.0037                |
| 3.8                                | 2505.999991         | -0.0036               | 2679.999996         | -0.0015               |
| 4.4                                | 2505.999994         | -0.0024               | 2679.999994         | -0.0022               |

Note: The applicant defined the normal working voltage is from 3.23 to 4.4 Vdc.

| Frequency Stability Versus Temperature |                     |                       |                     |                       |
|----------------------------------------|---------------------|-----------------------|---------------------|-----------------------|
| Temperature (°C)                       | CH 39750 (2506 MHz) |                       | CH 41490 (2680 MHz) |                       |
|                                        | Frequency (MHz)     | Frequency Error (ppm) | Frequency (MHz)     | Frequency Error (ppm) |
| -30                                    | 2506.000006         | 0.0024                | 2680.000003         | 0.0011                |
| -20                                    | 2506.00001          | 0.004                 | 2680.000007         | 0.0026                |
| -10                                    | 2506.000003         | 0.0012                | 2680.000003         | 0.0011                |
| 0                                      | 2505.999992         | -0.0032               | 2679.99999          | -0.0037               |
| 10                                     | 2505.999995         | -0.002                | 2679.999994         | -0.0022               |
| 20                                     | 2505.999994         | -0.0024               | 2679.999997         | -0.0011               |
| 30                                     | 2506.00001          | 0.004                 | 2680.000008         | 0.003                 |
| 40                                     | 2505.999991         | -0.0036               | 2679.999991         | -0.0034               |
| 50                                     | 2506.000003         | 0.0012                | 2680.000006         | 0.0022                |
| 60                                     | 2505.999997         | -0.0012               | 2679.999998         | -0.0007               |
| 70                                     | 2506.000002         | 0.0008                | 2680.000006         | 0.0022                |
| 75                                     | 2506.000009         | 0.0036                | 2680.000004         | 0.0015                |



# 7.8.11 LTE Band 42 (3450-3550 MHz)

## LTE Band 42 (3450-3550 MHz), Channel Bandwidth: 5 MHz

| Frequency Stability Versus Voltage |                       |                       |                       |                       |
|------------------------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| Voltage (Vdc)                      | CH 42115 (3452.5 MHz) |                       | CH 43065 (3547.5 MHz) |                       |
|                                    | Frequency (MHz)       | Frequency Error (ppm) | Frequency (MHz)       | Frequency Error (ppm) |
| 3.23                               | 3452.500007           | 0.002                 | 3547.500005           | 0.0014                |
| 3.8                                | 3452.500003           | 0.0009                | 3547.500003           | 0.0008                |
| 4.4                                | 3452.499994           | -0.0017               | 3547.499997           | -0.0008               |

Note: The applicant defined the normal working voltage is from 3.23 to 4.4 Vdc.

| Frequency Stability Versus Temperature |                       |                       |                       |                       |
|----------------------------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| Temperature (°C)                       | CH 42115 (3452.5 MHz) |                       | CH 43065 (3547.5 MHz) |                       |
|                                        | Frequency (MHz)       | Frequency Error (ppm) | Frequency (MHz)       | Frequency Error (ppm) |
| -30                                    | 3452.500008           | 0.0023                | 3547.500006           | 0.0017                |
| -20                                    | 3452.500007           | 0.002                 | 3547.500009           | 0.0025                |
| -10                                    | 3452.500008           | 0.0023                | 3547.500006           | 0.0017                |
| 0                                      | 3452.499995           | -0.0014               | 3547.499993           | -0.002                |
| 10                                     | 3452.500006           | 0.0017                | 3547.500006           | 0.0017                |
| 20                                     | 3452.500005           | 0.0014                | 3547.500001           | 0.0003                |
| 30                                     | 3452.500004           | 0.0012                | 3547.500001           | 0.0003                |
| 40                                     | 3452.500001           | 0.0003                | 3547.499996           | -0.0011               |
| 50                                     | 3452.500001           | 0.0003                | 3547.500003           | 0.0008                |
| 60                                     | 3452.500003           | 0.0009                | 3547.500008           | 0.0023                |
| 70                                     | 3452.500003           | 0.0009                | 3547.499999           | -0.0003               |
| 75                                     | 3452.500006           | 0.0017                | 3547.500002           | 0.0006                |

# LTE Band 42 (3450-3550 MHz), Channel Bandwidth: 10 MHz

| Frequency Stability Versus Voltage |                     |                       |                     |                       |
|------------------------------------|---------------------|-----------------------|---------------------|-----------------------|
| Voltage (Vdc)                      | CH 42140 (3455 MHz) |                       | CH 43040 (3545 MHz) |                       |
|                                    | Frequency (MHz)     | Frequency Error (ppm) | Frequency (MHz)     | Frequency Error (ppm) |
| 3.23                               | 3454.999991         | -0.0026               | 3544.999994         | -0.0017               |
| 3.8                                | 3455.000007         | 0.002                 | 3545.000002         | 0.0006                |
| 4.4                                | 3454.999991         | -0.0026               | 3544.999991         | -0.0025               |

Note: The applicant defined the normal working voltage is from 3.23 to 4.4 Vdc.

| Frequency Stability Versus Temperature |                     |                       |                     |                       |
|----------------------------------------|---------------------|-----------------------|---------------------|-----------------------|
| Temperature (°C)                       | CH 42140 (3455 MHz) |                       | CH 43040 (3545 MHz) |                       |
|                                        | Frequency (MHz)     | Frequency Error (ppm) | Frequency (MHz)     | Frequency Error (ppm) |
| -30                                    | 3454.999994         | -0.0017               | 3544.999997         | -0.0008               |
| -20                                    | 3455.000009         | 0.0026                | 3545.000007         | 0.002                 |
| -10                                    | 3454.999999         | -0.0003               | 3544.999996         | -0.0011               |
| 0                                      | 3455.000007         | 0.002                 | 3545.00001          | 0.0028                |
| 10                                     | 3455.000006         | 0.0017                | 3545.000008         | 0.0023                |
| 20                                     | 3455.000007         | 0.002                 | 3545.000008         | 0.0023                |
| 30                                     | 3455.000004         | 0.0012                | 3545.000007         | 0.002                 |
| 40                                     | 3454.999993         | -0.002                | 3544.999995         | -0.0014               |
| 50                                     | 3455.000003         | 0.0009                | 3545.000008         | 0.0023                |
| 60                                     | 3455.000005         | 0.0014                | 3545.000008         | 0.0023                |
| 70                                     | 3455.000003         | 0.0009                | 3544.999999         | -0.0003               |
| 75                                     | 3455.000004         | 0.0012                | 3545.000002         | 0.0006                |

**LTE Band 42 (3450-3550 MHz), Channel Bandwidth: 15 MHz**

| Frequency Stability Versus Voltage |                       |                       |                       |                       |
|------------------------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| Voltage (Vdc)                      | CH 42165 (3457.5 MHz) |                       | CH 43015 (3542.5 MHz) |                       |
|                                    | Frequency (MHz)       | Frequency Error (ppm) | Frequency (MHz)       | Frequency Error (ppm) |
| 3.23                               | 3457.499995           | -0.0014               | 3542.499999           | -0.0003               |
| 3.8                                | 3457.500003           | 0.0009                | 3542.499999           | -0.0003               |
| 4.4                                | 3457.500008           | 0.0023                | 3542.50001            | 0.0028                |

Note: The applicant defined the normal working voltage is from 3.23 to 4.4 Vdc.

| Frequency Stability Versus Temperature |                       |                       |                       |                       |
|----------------------------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| Temperature (°C)                       | CH 42165 (3457.5 MHz) |                       | CH 43015 (3542.5 MHz) |                       |
|                                        | Frequency (MHz)       | Frequency Error (ppm) | Frequency (MHz)       | Frequency Error (ppm) |
| -30                                    | 3457.500009           | 0.0026                | 3542.500006           | 0.0017                |
| -20                                    | 3457.500007           | 0.002                 | 3542.50001            | 0.0028                |
| -10                                    | 3457.500002           | 0.0006                | 3542.500003           | 0.0008                |
| 0                                      | 3457.499992           | -0.0023               | 3542.49999            | -0.0028               |
| 10                                     | 3457.500001           | 0.0003                | 3542.499996           | -0.0011               |
| 20                                     | 3457.499999           | -0.0003               | 3542.499994           | -0.0017               |
| 30                                     | 3457.500001           | 0.0003                | 3542.500003           | 0.0008                |
| 40                                     | 3457.500001           | 0.0003                | 3542.499995           | -0.0014               |
| 50                                     | 3457.500006           | 0.0017                | 3542.500008           | 0.0023                |
| 60                                     | 3457.499991           | -0.0026               | 3542.499996           | -0.0011               |
| 70                                     | 3457.499998           | -0.0006               | 3542.499994           | -0.0017               |
| 75                                     | 3457.499991           | -0.0026               | 3542.499994           | -0.0017               |

# LTE Band 42 (3450-3550 MHz), Channel Bandwidth: 20 MHz

| Frequency Stability Versus Voltage |                     |                       |                     |                       |
|------------------------------------|---------------------|-----------------------|---------------------|-----------------------|
| Voltage (Vdc)                      | CH 42190 (3460 MHz) |                       | CH 42990 (3540 MHz) |                       |
|                                    | Frequency (MHz)     | Frequency Error (ppm) | Frequency (MHz)     | Frequency Error (ppm) |
| 3.23                               | 3460.000003         | 0.0009                | 3539.999999         | -0.0003               |
| 3.8                                | 3459.999992         | -0.0023               | 3539.99999          | -0.0028               |
| 4.4                                | 3460.000005         | 0.0014                | 3540.000004         | 0.0011                |

Note: The applicant defined the normal working voltage is from 3.23 to 4.4 Vdc.

| Frequency Stability Versus Temperature |                     |                       |                     |                       |
|----------------------------------------|---------------------|-----------------------|---------------------|-----------------------|
| Temperature (°C)                       | CH 42190 (3460 MHz) |                       | CH 42990 (3540 MHz) |                       |
|                                        | Frequency (MHz)     | Frequency Error (ppm) | Frequency (MHz)     | Frequency Error (ppm) |
| -30                                    | 3460.000009         | 0.0026                | 3540.000006         | 0.0017                |
| -20                                    | 3460.000007         | 0.002                 | 3540.000008         | 0.0023                |
| -10                                    | 3460.000002         | 0.0006                | 3539.999998         | -0.0006               |
| 0                                      | 3460.000008         | 0.0023                | 3540.000008         | 0.0023                |
| 10                                     | 3460.000006         | 0.0017                | 3540.00001          | 0.0028                |
| 20                                     | 3460.000002         | 0.0006                | 3540.000002         | 0.0006                |
| 30                                     | 3460.000002         | 0.0006                | 3539.999999         | -0.0003               |
| 40                                     | 3460.000004         | 0.0012                | 3540.000003         | 0.0008                |
| 50                                     | 3460.000005         | 0.0014                | 3540.000008         | 0.0023                |
| 60                                     | 3460.000007         | 0.002                 | 3540.000009         | 0.0025                |
| 70                                     | 3459.999994         | -0.0017               | 3539.999996         | -0.0011               |
| 75                                     | 3459.999997         | -0.0009               | 3539.999992         | -0.0023               |

## 7.8.12 LTE Band 66

### LTE Band 66, Channel Bandwidth: 1.4 MHz

| Frequency Stability Versus Voltage |                        |                       |                        |                       |
|------------------------------------|------------------------|-----------------------|------------------------|-----------------------|
| Voltage (Vdc)                      | CH 131979 (1710.7 MHz) |                       | CH 132665 (1779.3 MHz) |                       |
|                                    | Frequency (MHz)        | Frequency Error (ppm) | Frequency (MHz)        | Frequency Error (ppm) |
| 3.23                               | 1710.700009            | 0.0053                | 1779.30001             | 0.0056                |
| 3.8                                | 1710.700009            | 0.0053                | 1779.300006            | 0.0034                |
| 4.4                                | 1710.699994            | -0.0035               | 1779.299998            | -0.0011               |

Note: The applicant defined the normal working voltage is from 3.23 to 4.4 Vdc.

| Frequency Stability Versus Temperature |                        |                       |                        |                       |
|----------------------------------------|------------------------|-----------------------|------------------------|-----------------------|
| Temperature (°C)                       | CH 131979 (1710.7 MHz) |                       | CH 132665 (1779.3 MHz) |                       |
|                                        | Frequency (MHz)        | Frequency Error (ppm) | Frequency (MHz)        | Frequency Error (ppm) |
| -30                                    | 1710.700008            | 0.0047                | 1779.300009            | 0.0051                |
| -20                                    | 1710.699997            | -0.0018               | 1779.300001            | 0.0006                |
| -10                                    | 1710.699997            | -0.0018               | 1779.299998            | -0.0011               |
| 0                                      | 1710.700007            | 0.0041                | 1779.300007            | 0.0039                |
| 10                                     | 1710.700006            | 0.0035                | 1779.300004            | 0.0022                |
| 20                                     | 1710.699997            | -0.0018               | 1779.300001            | 0.0006                |
| 30                                     | 1710.700003            | 0.0018                | 1779.300004            | 0.0022                |
| 40                                     | 1710.699999            | -0.0006               | 1779.300002            | 0.0011                |
| 50                                     | 1710.700005            | 0.0029                | 1779.300002            | 0.0011                |
| 60                                     | 1710.700002            | 0.0012                | 1779.299998            | -0.0011               |
| 70                                     | 1710.699994            | -0.0035               | 1779.299999            | -0.0056               |
| 75                                     | 1710.699997            | -0.0018               | 1779.299996            | -0.0022               |

# LTE Band 66, Channel Bandwidth: 3 MHz

| Frequency Stability Versus Voltage |                        |                       |                        |                       |
|------------------------------------|------------------------|-----------------------|------------------------|-----------------------|
| Voltage (Vdc)                      | CH 131987 (1711.5 MHz) |                       | CH 132657 (1778.5 MHz) |                       |
|                                    | Frequency (MHz)        | Frequency Error (ppm) | Frequency (MHz)        | Frequency Error (ppm) |
| 3.23                               | 1711.500004            | 0.0023                | 1778.500002            | 0.0011                |
| 3.8                                | 1711.499993            | -0.0041               | 1778.499991            | -0.0051               |
| 4.4                                | 1711.500001            | 0.0006                | 1778.499999            | -0.0006               |

Note: The applicant defined the normal working voltage is from 3.23 to 4.4 Vdc.

| Frequency Stability Versus Temperature |                        |                       |                        |                       |
|----------------------------------------|------------------------|-----------------------|------------------------|-----------------------|
| Temperature (°C)                       | CH 131987 (1711.5 MHz) |                       | CH 132657 (1778.5 MHz) |                       |
|                                        | Frequency (MHz)        | Frequency Error (ppm) | Frequency (MHz)        | Frequency Error (ppm) |
| -30                                    | 1711.500001            | 0.0058                | 1778.500008            | 0.0045                |
| -20                                    | 1711.500003            | 0.0018                | 1778.499998            | -0.0011               |
| -10                                    | 1711.499998            | -0.0012               | 1778.499996            | -0.0022               |
| 0                                      | 1711.499992            | -0.0047               | 1778.499994            | -0.0034               |
| 10                                     | 1711.500007            | 0.0041                | 1778.500002            | 0.0011                |
| 20                                     | 1711.500009            | 0.0053                | 1778.500006            | 0.0034                |
| 30                                     | 1711.499995            | -0.0029               | 1778.499995            | -0.0028               |
| 40                                     | 1711.500001            | 0.0006                | 1778.500003            | 0.0017                |
| 50                                     | 1711.500007            | 0.0041                | 1778.500008            | 0.0045                |
| 60                                     | 1711.499995            | -0.0029               | 1778.499995            | -0.0028               |
| 70                                     | 1711.499998            | -0.0012               | 1778.499994            | -0.0034               |
| 75                                     | 1711.500005            | 0.0029                | 1778.500008            | 0.0045                |

# LTE Band 66, Channel Bandwidth: 5 MHz

| Frequency Stability Versus Voltage |                        |                       |                        |                       |
|------------------------------------|------------------------|-----------------------|------------------------|-----------------------|
| Voltage (Vdc)                      | CH 131997 (1712.5 MHz) |                       | CH 132647 (1777.5 MHz) |                       |
|                                    | Frequency (MHz)        | Frequency Error (ppm) | Frequency (MHz)        | Frequency Error (ppm) |
| 3.23                               | 1712.499993            | -0.0041               | 1777.499995            | -0.0028               |
| 3.8                                | 1712.500006            | 0.0035                | 1777.500002            | 0.0011                |
| 4.4                                | 1712.499995            | -0.0029               | 1777.499997            | -0.0017               |

Note: The applicant defined the normal working voltage is from 3.23 to 4.4 Vdc.

| Frequency Stability Versus Temperature |                        |                       |                        |                       |
|----------------------------------------|------------------------|-----------------------|------------------------|-----------------------|
| Temperature (°C)                       | CH 131997 (1712.5 MHz) |                       | CH 132647 (1777.5 MHz) |                       |
|                                        | Frequency (MHz)        | Frequency Error (ppm) | Frequency (MHz)        | Frequency Error (ppm) |
| -30                                    | 1712.500009            | 0.0053                | 1777.500007            | 0.0039                |
| -20                                    | 1712.500009            | 0.0053                | 1777.500008            | 0.0045                |
| -10                                    | 1712.499997            | -0.0018               | 1777.500001            | 0.0006                |
| 0                                      | 1712.500001            | 0.0006                | 1777.500005            | 0.0028                |
| 10                                     | 1712.500002            | 0.0012                | 1777.500004            | 0.0023                |
| 20                                     | 1712.499994            | -0.0035               | 1777.499996            | -0.0023               |
| 30                                     | 1712.500008            | 0.0047                | 1777.500005            | 0.0028                |
| 40                                     | 1712.499992            | -0.0047               | 1777.499992            | -0.0045               |
| 50                                     | 1712.500009            | 0.0053                | 1777.500008            | 0.0045                |
| 60                                     | 1712.499995            | -0.0029               | 1777.499992            | -0.0045               |
| 70                                     | 1712.499998            | -0.0012               | 1777.500001            | 0.0006                |
| 75                                     | 1712.499999            | -0.0058               | 1777.499992            | -0.0045               |

# LTE Band 66, Channel Bandwidth: 10 MHz

| Frequency Stability Versus Voltage |                      |                       |                      |                       |
|------------------------------------|----------------------|-----------------------|----------------------|-----------------------|
| Voltage (Vdc)                      | CH 132022 (1715 MHz) |                       | CH 132622 (1775 MHz) |                       |
|                                    | Frequency (MHz)      | Frequency Error (ppm) | Frequency (MHz)      | Frequency Error (ppm) |
| 3.23                               | 1715.000002          | 0.0012                | 1775.000001          | 0.0006                |
| 3.8                                | 1714.99999           | -0.0058               | 1774.999992          | -0.0045               |
| 4.4                                | 1714.999995          | -0.0029               | 1774.999997          | -0.0017               |

Note: The applicant defined the normal working voltage is from 3.23 to 4.4 Vdc.

| Frequency Stability Versus Temperature |                      |                       |                      |                       |
|----------------------------------------|----------------------|-----------------------|----------------------|-----------------------|
| Temperature (°C)                       | CH 132022 (1715 MHz) |                       | CH 132622 (1775 MHz) |                       |
|                                        | Frequency (MHz)      | Frequency Error (ppm) | Frequency (MHz)      | Frequency Error (ppm) |
| -30                                    | 1715.000007          | 0.0041                | 1775.00001           | 0.0056                |
| -20                                    | 1714.999998          | -0.0012               | 1775.000002          | 0.0011                |
| -10                                    | 1715.000003          | 0.0017                | 1775.000008          | 0.0045                |
| 0                                      | 1714.999991          | -0.0052               | 1774.999992          | -0.0045               |
| 10                                     | 1714.999998          | -0.0012               | 1775.000002          | 0.0011                |
| 20                                     | 1715.000001          | 0.0006                | 1774.999999          | -0.0006               |
| 30                                     | 1715.000008          | 0.0047                | 1775.000005          | 0.0028                |
| 40                                     | 1715.000008          | 0.0047                | 1775.00001           | 0.0056                |
| 50                                     | 1714.999992          | -0.0047               | 1774.999993          | -0.0039               |
| 60                                     | 1715.000002          | 0.0012                | 1774.999998          | -0.0011               |
| 70                                     | 1714.999996          | -0.0023               | 1774.999996          | -0.0023               |
| 75                                     | 1714.999991          | -0.0052               | 1774.99999           | -0.0056               |



# LTE Band 66, Channel Bandwidth: 15 MHz

| Frequency Stability Versus Voltage |                        |                       |                        |                       |
|------------------------------------|------------------------|-----------------------|------------------------|-----------------------|
| Voltage (Vdc)                      | CH 132047 (1717.5 MHz) |                       | CH 132597 (1772.5 MHz) |                       |
|                                    | Frequency (MHz)        | Frequency Error (ppm) | Frequency (MHz)        | Frequency Error (ppm) |
| 3.23                               | 1717.499991            | -0.0052               | 1772.499991            | -0.0051               |
| 3.8                                | 1717.500007            | 0.0041                | 1772.500006            | 0.0034                |
| 4.4                                | 1717.500007            | 0.0041                | 1772.500003            | 0.0017                |

Note: The applicant defined the normal working voltage is from 3.23 to 4.4 Vdc.

| Frequency Stability Versus Temperature |                        |                       |                        |                       |
|----------------------------------------|------------------------|-----------------------|------------------------|-----------------------|
| Temperature (°C)                       | CH 132047 (1717.5 MHz) |                       | CH 132597 (1772.5 MHz) |                       |
|                                        | Frequency (MHz)        | Frequency Error (ppm) | Frequency (MHz)        | Frequency Error (ppm) |
| -30                                    | 1717.500009            | 0.0052                | 1772.500007            | 0.0039                |
| -20                                    | 1717.500001            | 0.0058                | 1772.500009            | 0.0051                |
| -10                                    | 1717.499992            | -0.0047               | 1772.499999            | -0.0056               |
| 0                                      | 1717.499999            | -0.0006               | 1772.499998            | -0.0011               |
| 10                                     | 1717.500002            | 0.0012                | 1772.500006            | 0.0034                |
| 20                                     | 1717.499994            | -0.0035               | 1772.499992            | -0.0045               |
| 30                                     | 1717.499997            | -0.0017               | 1772.499997            | -0.0017               |
| 40                                     | 1717.499999            | -0.0058               | 1772.499994            | -0.0034               |
| 50                                     | 1717.499999            | -0.0006               | 1772.499999            | -0.0006               |
| 60                                     | 1717.499993            | -0.0041               | 1772.499991            | -0.0051               |
| 70                                     | 1717.500002            | 0.0012                | 1772.500005            | 0.0028                |
| 75                                     | 1717.500002            | 0.0012                | 1772.499999            | -0.0006               |

# LTE Band 66, Channel Bandwidth: 20 MHz

| Frequency Stability Versus Voltage |                      |                       |                      |                       |
|------------------------------------|----------------------|-----------------------|----------------------|-----------------------|
| Voltage (Vdc)                      | CH 132072 (1720 MHz) |                       | CH 132572 (1770 MHz) |                       |
|                                    | Frequency (MHz)      | Frequency Error (ppm) | Frequency (MHz)      | Frequency Error (ppm) |
| 3.23                               | 1719.999992          | -0.0047               | 1769.999994          | -0.0034               |
| 3.8                                | 1719.999993          | -0.0041               | 1769.999997          | -0.0017               |
| 4.4                                | 1719.99999           | -0.0058               | 1769.999993          | -0.004                |

Note: The applicant defined the normal working voltage is from 3.23 to 4.4 Vdc.

| Frequency Stability Versus Temperature |                      |                       |                      |                       |
|----------------------------------------|----------------------|-----------------------|----------------------|-----------------------|
| Temperature (°C)                       | CH 132072 (1720 MHz) |                       | CH 132572 (1770 MHz) |                       |
|                                        | Frequency (MHz)      | Frequency Error (ppm) | Frequency (MHz)      | Frequency Error (ppm) |
| -30                                    | 1720.00001           | 0.0058                | 1770.000008          | 0.0045                |
| -20                                    | 1720.00001           | 0.0058                | 1770.00001           | 0.0056                |
| -10                                    | 1719.99999           | -0.0058               | 1769.999991          | -0.0051               |
| 0                                      | 1720.000001          | 0.0006                | 1769.999998          | -0.0011               |
| 10                                     | 1720.00001           | 0.0058                | 1770.000009          | 0.0051                |
| 20                                     | 1719.999994          | -0.0035               | 1769.999995          | -0.0028               |
| 30                                     | 1720.000001          | 0.0006                | 1769.999997          | -0.0017               |
| 40                                     | 1719.999993          | -0.0041               | 1769.999997          | -0.0017               |
| 50                                     | 1720.000008          | 0.0047                | 1770.000007          | 0.004                 |
| 60                                     | 1720.000002          | 0.0012                | 1770.000005          | 0.0028                |
| 70                                     | 1719.999998          | -0.0012               | 1770.000001          | 0.0006                |
| 75                                     | 1719.999997          | -0.0017               | 1769.999998          | -0.0011               |

### 7.8.13 LTE Band 71

#### LTE Band 71, Channel Bandwidth: 5 MHz

| Frequency Stability Versus Voltage |                       |                       |                       |                       |
|------------------------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| Voltage (Vdc)                      | CH 133147 (665.5 MHz) |                       | CH 133447 (695.5 MHz) |                       |
|                                    | Frequency (MHz)       | Frequency Error (ppm) | Frequency (MHz)       | Frequency Error (ppm) |
| 3.23                               | 665.500008            | 0.012                 | 695.500004            | 0.0058                |
| 3.8                                | 665.500008            | 0.012                 | 695.500003            | 0.0043                |
| 4.4                                | 665.499992            | -0.012                | 695.499995            | -0.0072               |

Note: The applicant defined the normal working voltage is from 3.23 to 4.4 Vdc.

| Frequency Stability Versus Temperature |                       |                       |                       |                       |
|----------------------------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| Temperature (°C)                       | CH 133147 (665.5 MHz) |                       | CH 133447 (695.5 MHz) |                       |
|                                        | Frequency (MHz)       | Frequency Error (ppm) | Frequency (MHz)       | Frequency Error (ppm) |
| -30                                    | 665.499993            | -0.0105               | 695.499992            | -0.0115               |
| -20                                    | 665.500001            | 0.0015                | 695.499999            | -0.0014               |
| -10                                    | 665.500003            | 0.0045                | 695.500008            | 0.0115                |
| 0                                      | 665.50001             | 0.015                 | 695.500009            | 0.0129                |
| 10                                     | 665.499998            | -0.003                | 695.499999            | -0.0014               |
| 20                                     | 665.499991            | -0.0135               | 695.499993            | -0.0101               |
| 30                                     | 665.499995            | -0.0075               | 695.499996            | -0.0058               |
| 40                                     | 665.499994            | -0.009                | 695.499992            | -0.0115               |
| 50                                     | 665.500004            | 0.006                 | 695.500007            | 0.0101                |
| 60                                     | 665.500003            | 0.0045                | 695.500001            | 0.0014                |
| 70                                     | 665.499993            | -0.0105               | 695.499999            | -0.0144               |
| 75                                     | 665.499992            | -0.012                | 695.499993            | -0.0101               |

# LTE Band 71, Channel Bandwidth: 10 MHz

| Frequency Stability Versus Voltage |                     |                       |                     |                       |
|------------------------------------|---------------------|-----------------------|---------------------|-----------------------|
| Voltage (Vdc)                      | CH 133172 (668 MHz) |                       | CH 133422 (693 MHz) |                       |
|                                    | Frequency (MHz)     | Frequency Error (ppm) | Frequency (MHz)     | Frequency Error (ppm) |
| 3.23                               | 668.000006          | 0.009                 | 693.00001           | 0.0144                |
| 3.8                                | 668.000001          | 0.0015                | 692.999995          | -0.0072               |
| 4.4                                | 668.000005          | 0.0075                | 693.000001          | 0.0014                |

Note: The applicant defined the normal working voltage is from 3.23 to 4.4 Vdc.

| Frequency Stability Versus Temperature |                     |                       |                     |                       |
|----------------------------------------|---------------------|-----------------------|---------------------|-----------------------|
| Temperature (°C)                       | CH 133172 (668 MHz) |                       | CH 133422 (693 MHz) |                       |
|                                        | Frequency (MHz)     | Frequency Error (ppm) | Frequency (MHz)     | Frequency Error (ppm) |
| -30                                    | 667.999993          | -0.0105               | 692.99999           | -0.0144               |
| -20                                    | 667.999991          | -0.0135               | 692.999991          | -0.013                |
| -10                                    | 667.999991          | -0.0135               | 692.999993          | -0.0101               |
| 0                                      | 667.999997          | -0.0045               | 692.999995          | -0.0072               |
| 10                                     | 667.999991          | -0.0135               | 692.99999           | -0.0144               |
| 20                                     | 667.999995          | -0.0075               | 692.999991          | -0.013                |
| 30                                     | 667.999997          | -0.0045               | 692.999997          | -0.0043               |
| 40                                     | 667.999994          | -0.009                | 692.999991          | -0.013                |
| 50                                     | 668.000009          | 0.0135                | 693.000005          | 0.0072                |
| 60                                     | 667.999993          | -0.0105               | 692.999996          | -0.0058               |
| 70                                     | 667.999993          | -0.0105               | 692.999997          | -0.0043               |
| 75                                     | 668.000009          | 0.0135                | 693.000009          | 0.013                 |

# LTE Band 71, Channel Bandwidth: 15 MHz

| Frequency Stability Versus Voltage |                       |                       |                       |                       |
|------------------------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| Voltage (Vdc)                      | CH 133197 (670.5 MHz) |                       | CH 133397 (690.5 MHz) |                       |
|                                    | Frequency (MHz)       | Frequency Error (ppm) | Frequency (MHz)       | Frequency Error (ppm) |
| 3.23                               | 670.499995            | -0.0075               | 690.499992            | -0.0116               |
| 3.8                                | 670.499991            | -0.0134               | 690.49999             | -0.0145               |
| 4.4                                | 670.499997            | -0.0045               | 690.500001            | 0.0014                |

Note: The applicant defined the normal working voltage is from 3.23 to 4.4 Vdc.

| Frequency Stability Versus Temperature |                       |                       |                       |                       |
|----------------------------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| Temperature (°C)                       | CH 133197 (670.5 MHz) |                       | CH 133397 (690.5 MHz) |                       |
|                                        | Frequency (MHz)       | Frequency Error (ppm) | Frequency (MHz)       | Frequency Error (ppm) |
| -30                                    | 670.499994            | -0.0089               | 690.499996            | -0.0058               |
| -20                                    | 670.500006            | 0.0089                | 690.500008            | 0.0116                |
| -10                                    | 670.500009            | 0.0134                | 690.500004            | 0.0058                |
| 0                                      | 670.499996            | -0.006                | 690.499998            | -0.0029               |
| 10                                     | 670.499999            | -0.0015               | 690.500001            | 0.0014                |
| 20                                     | 670.500007            | 0.0104                | 690.500009            | 0.013                 |
| 30                                     | 670.499996            | -0.006                | 690.499997            | -0.0043               |
| 40                                     | 670.500009            | 0.0134                | 690.500008            | 0.0116                |
| 50                                     | 670.500005            | 0.0075                | 690.500006            | 0.0087                |
| 60                                     | 670.499998            | -0.003                | 690.499993            | -0.0101               |
| 70                                     | 670.499994            | -0.0089               | 690.499991            | -0.013                |
| 75                                     | 670.499993            | -0.0104               | 690.499991            | -0.013                |

# LTE Band 71, Channel Bandwidth: 20 MHz

| Frequency Stability Versus Voltage |                     |                       |                     |                       |
|------------------------------------|---------------------|-----------------------|---------------------|-----------------------|
| Voltage (Vdc)                      | CH 133222 (673 MHz) |                       | CH 133372 (688 MHz) |                       |
|                                    | Frequency (MHz)     | Frequency Error (ppm) | Frequency (MHz)     | Frequency Error (ppm) |
| 3.23                               | 673.00001           | 0.0149                | 688.00001           | 0.0145                |
| 3.8                                | 673.000001          | 0.0015                | 688.000004          | 0.0058                |
| 4.4                                | 673.000006          | 0.0089                | 688.000002          | 0.0029                |

Note: The applicant defined the normal working voltage is from 3.23 to 4.4 Vdc.

| Frequency Stability Versus Temperature |                     |                       |                     |                       |
|----------------------------------------|---------------------|-----------------------|---------------------|-----------------------|
| Temperature (°C)                       | CH 133222 (673 MHz) |                       | CH 133372 (688 MHz) |                       |
|                                        | Frequency (MHz)     | Frequency Error (ppm) | Frequency (MHz)     | Frequency Error (ppm) |
| -30                                    | 672.999994          | -0.0089               | 687.999991          | -0.0131               |
| -20                                    | 672.999992          | -0.0119               | 687.999993          | -0.0102               |
| -10                                    | 673.000007          | 0.0104                | 688.000009          | 0.0131                |
| 0                                      | 672.999998          | -0.003                | 687.999994          | -0.0087               |
| 10                                     | 672.999992          | -0.0119               | 687.999992          | -0.0116               |
| 20                                     | 672.999991          | -0.0134               | 687.999995          | -0.0073               |
| 30                                     | 673.000002          | 0.003                 | 687.999997          | -0.0044               |
| 40                                     | 672.999995          | -0.0074               | 687.999999          | -0.0145               |
| 50                                     | 673.000005          | 0.0074                | 688.000003          | 0.0044                |
| 60                                     | 673.000004          | 0.0059                | 688.000006          | 0.0087                |
| 70                                     | 672.999994          | -0.0089               | 687.999998          | -0.0029               |
| 75                                     | 672.999994          | -0.0089               | 687.999998          | -0.0029               |

## 8 Pictures of Test Arrangements

Please refer to the attached file (Test Setup Photo)

## 9 Information of the Testing Laboratories

We, Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch, were founded in 1988 to provide our best service in EMC, Radio, Telecom and Safety consultation. Our laboratories are FCC recognized accredited test firms and accredited according to ISO/IEC 17025.

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The address and road map of all our labs can be found in our web site also.

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