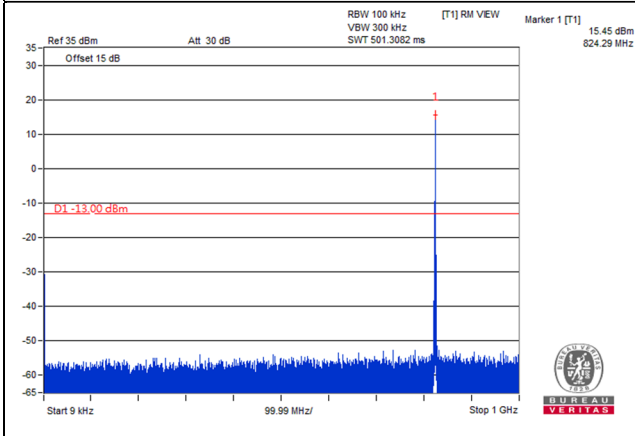


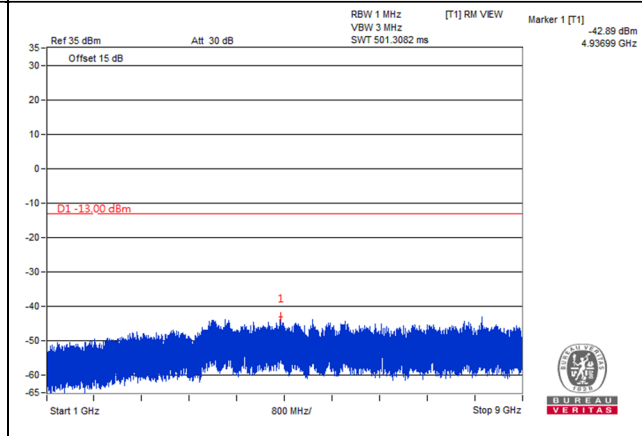
LTE Band 26, Channel Bandwidth 3MHz

Channel 26805 (825.5MHz)

Frequency Range : 9kHz~1GHz

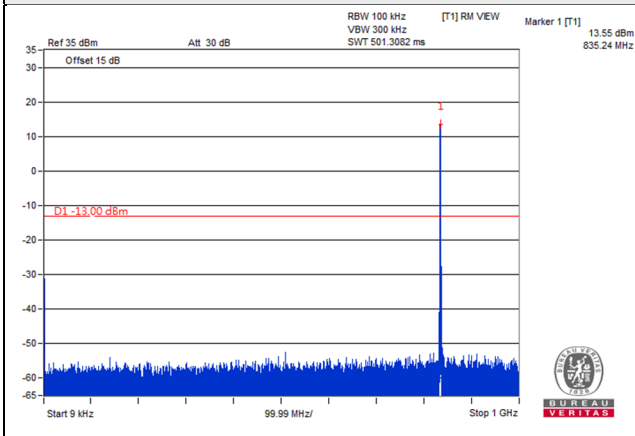


Frequency Range : 1GHz~9GHz

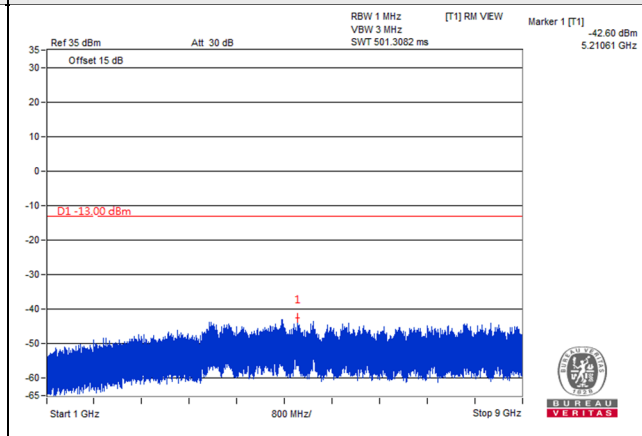


Channel 26915 (836.5MHz)

Frequency Range : 9kHz~1GHz

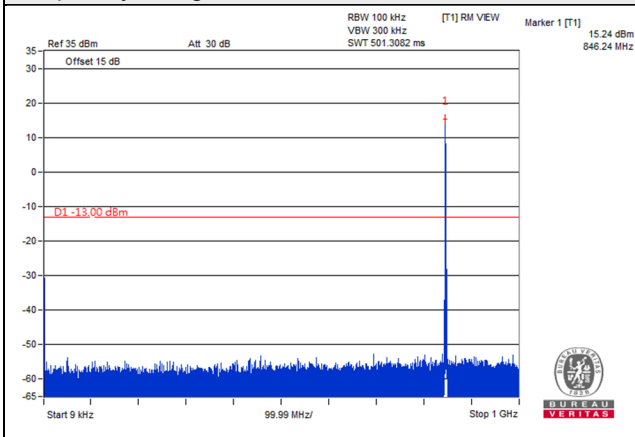


Frequency Range : 1GHz~9GHz

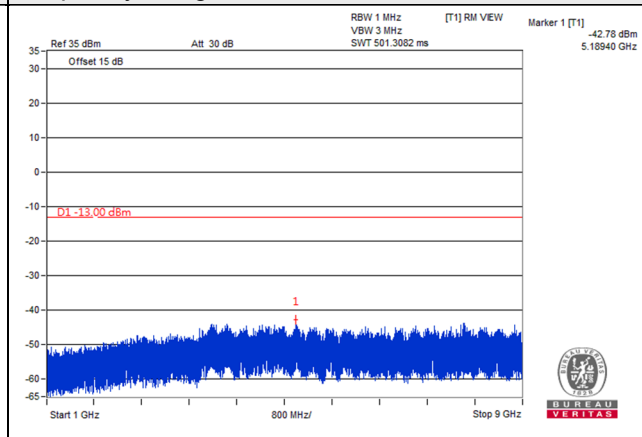


Channel 27025 (847.5MHz)

Frequency Range : 9kHz~1GHz



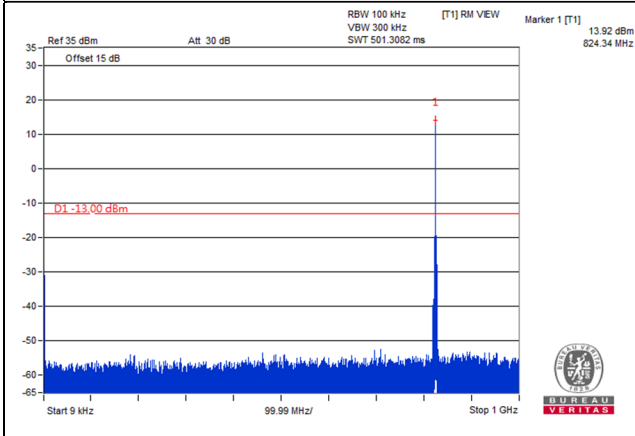
Frequency Range : 1GHz~9GHz



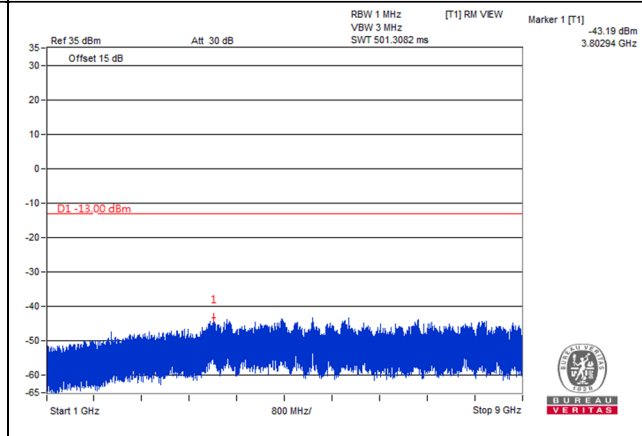
LTE Band 26, Channel Bandwidth 5MHz

Channel 26815 (826.5MHz)

Frequency Range : 9kHz~1GHz

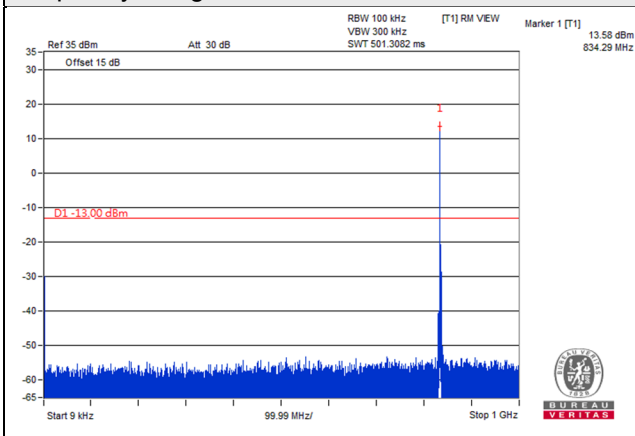


Frequency Range : 1GHz~9GHz

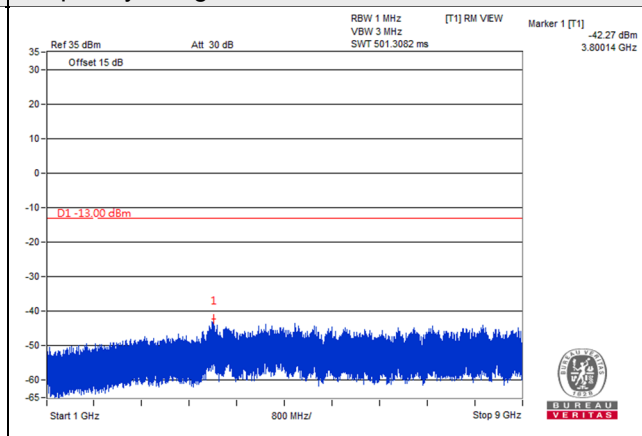


Channel 26915 (836.5MHz)

Frequency Range : 9kHz~1GHz

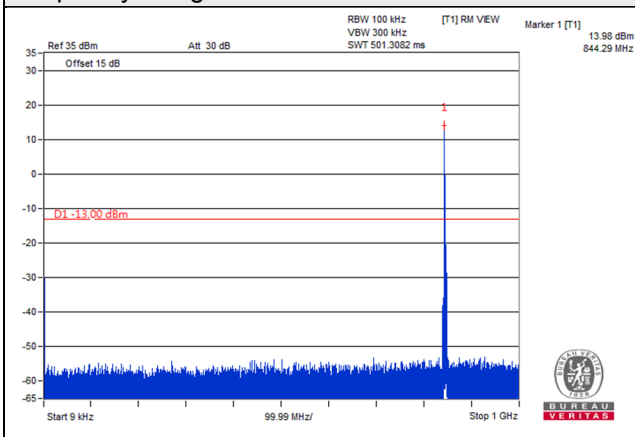


Frequency Range : 1GHz~9GHz

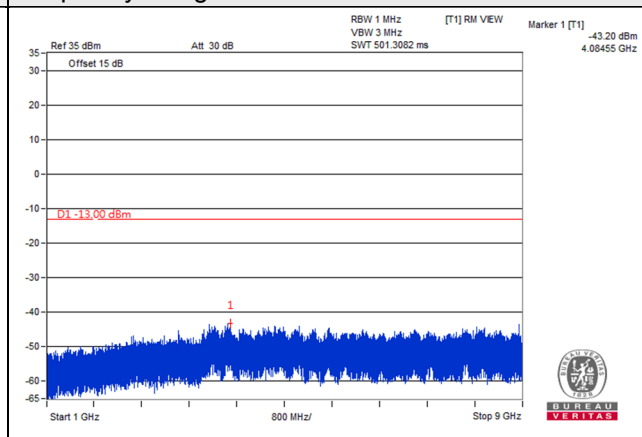


Channel 27015 (846.5MHz)

Frequency Range : 9kHz~1GHz



Frequency Range : 1GHz~9GHz

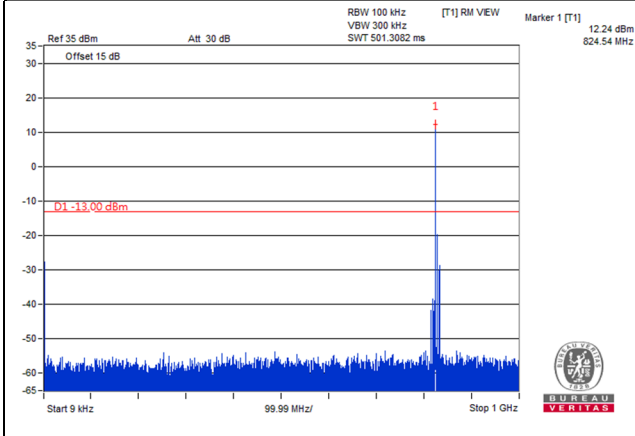


\*The 9kHz signal over the limit is from Spectrum.

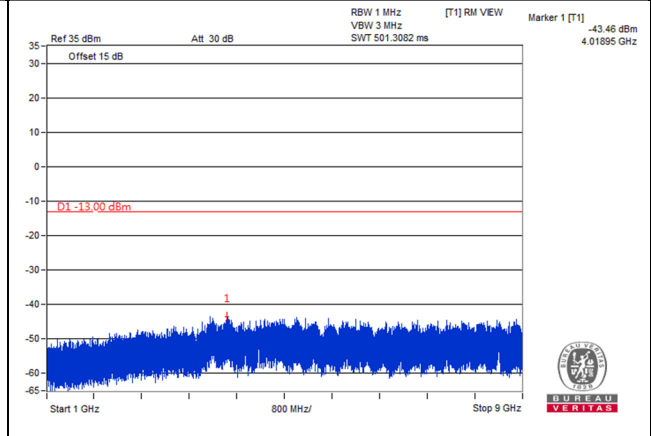
LTE Band 26, Channel Bandwidth 10MHz

Channel 26840 (829MHz)

Frequency Range : 9kHz~1GHz

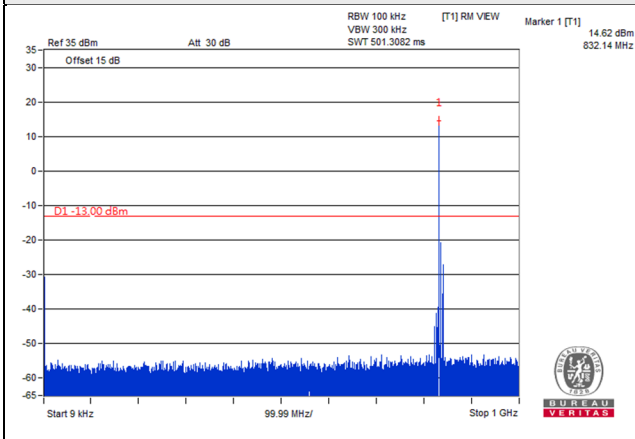


Frequency Range : 1GHz~9GHz

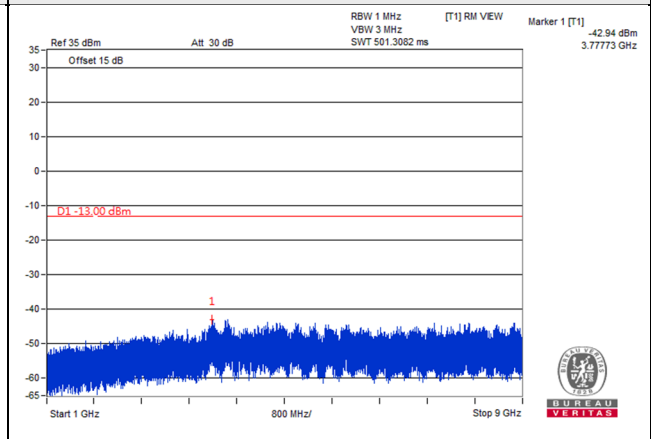


Channel 26915 (836.5MHz)

Frequency Range : 9kHz~1GHz

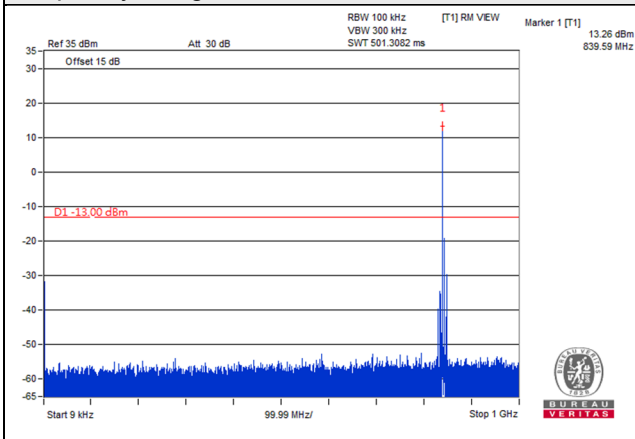


Frequency Range : 1GHz~9GHz

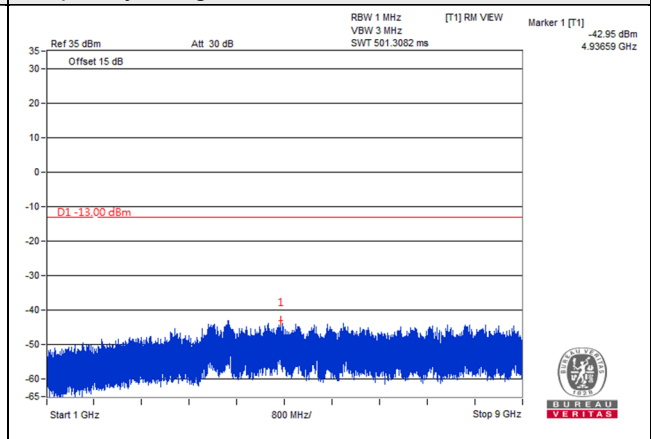


Channel 26990 (844MHz)

Frequency Range : 9kHz~1GHz



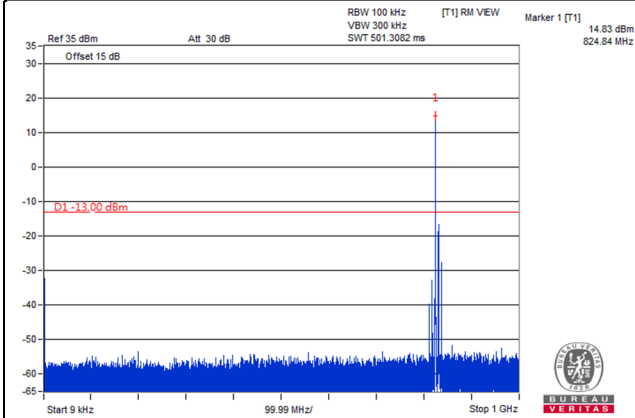
Frequency Range : 1GHz~9GHz



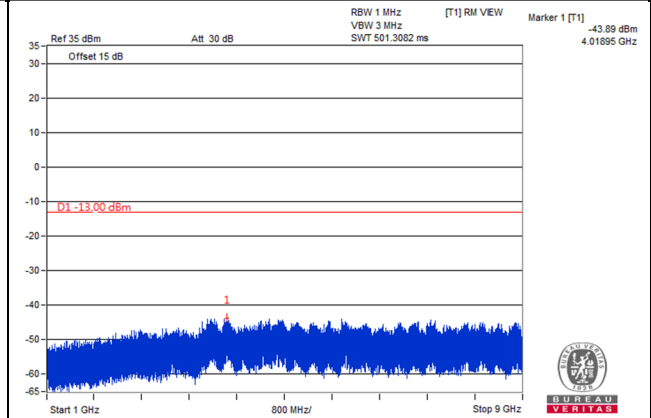
LTE Band 26, Channel Bandwidth 15MHz

Channel 26865 (831.5MHz)

Frequency Range : 9kHz~1GHz

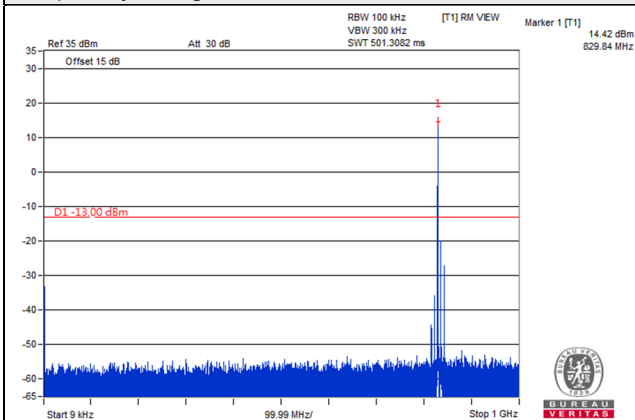


Frequency Range : 1GHz~9GHz

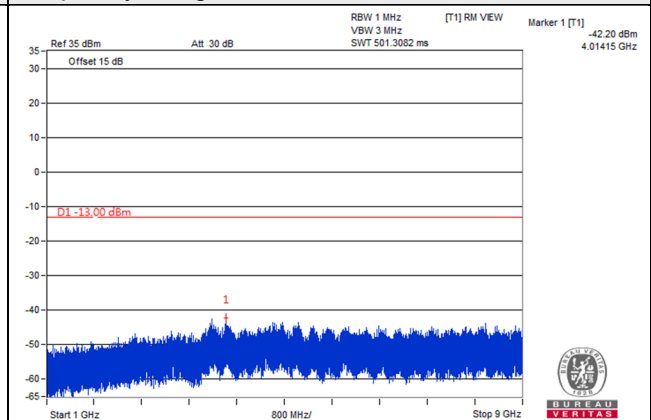


Channel 26915 (836.5MHz)

Frequency Range : 9kHz~1GHz

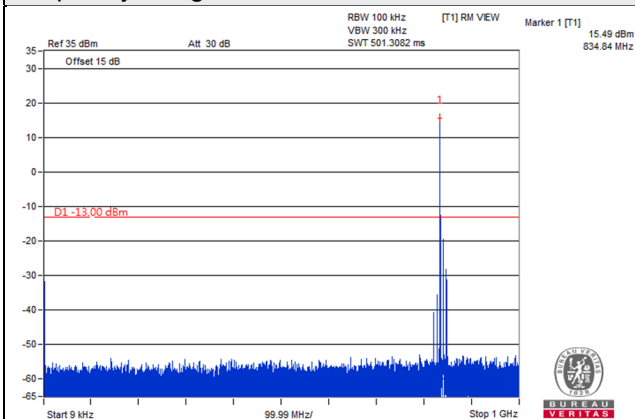


Frequency Range : 1GHz~9GHz

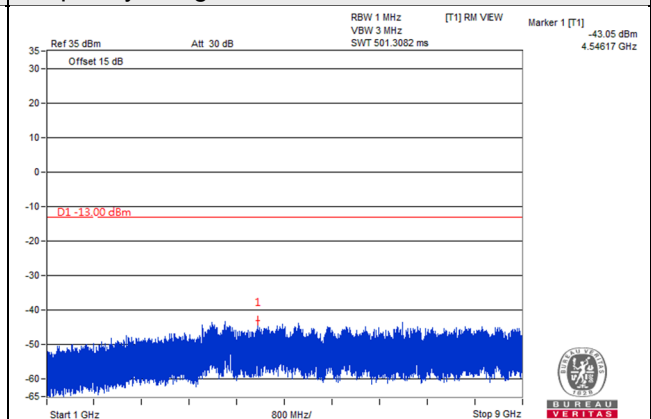


Channel 26965 (841.5MHz)

Frequency Range : 9kHz~1GHz



Frequency Range : 1GHz~9GHz



## 4.8 Radiated Emission Measurement

### 4.8.1 Limits of Radiated Emission Measurement

The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least  $43 + 10 \log(P)$  dB. The emission limit equal to  $-13\text{dBm}$ .

### 4.8.2 Test Procedure

- a. Substitution method is used for E.I.R.P measurement. In the semi-anechoic chamber, EUT placed on the 0.8m (below or equal 1 GHz) and/or 1.5 m (above 1 GHz) height of Turn Table, rotated the table around 360 degrees to search the maximum radiation power and receiver antenna shall be rotated vertical and horizontal polarization and moved height from 1m to 4m to find the maximum polar radiated power. The "Read Value" is the spectrum reading the maximum power value.
- b. The substitution horn antenna is substituted for EUT at the same position and signals generator export the CW signal to the substitution antenna via a TX cable. Rotated the Turn Table and moved receiving antenna to find the maximum radiation power. Adjust output power level of S.G to get a Value of spectrum reading equal to "Read Value" of step a. Record the power level of S.G
- c.  $\text{EIRP} = \text{Output power level of S.G} - \text{TX cable loss} + \text{Antenna gain of substitution horn}$ .
- d. E.R.P power can be calculated form E.I.R.P power by subtracting the gain of dipole,  $\text{E.R.P power} = \text{E.I.R.P power} - 2.15\text{dBi}$ .

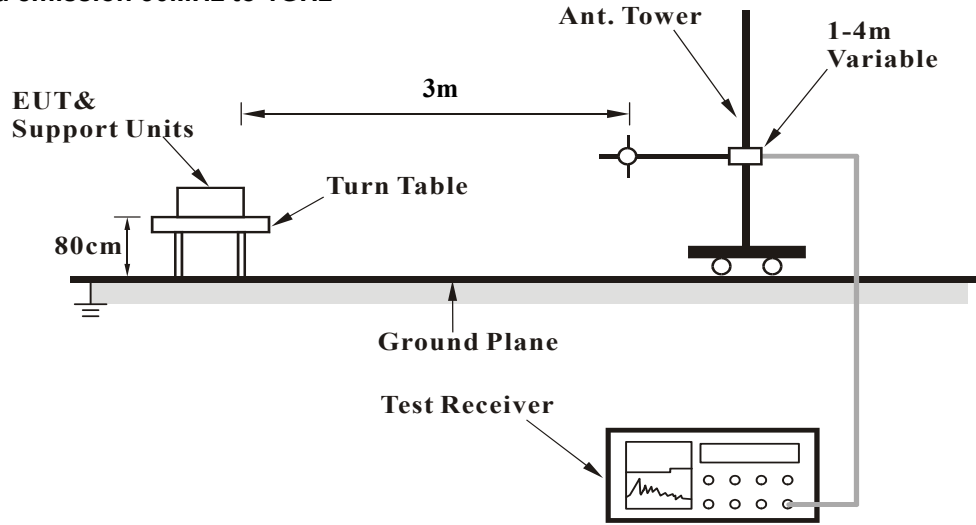
NOTE: The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 1MHz/3MHz.

### 4.8.3 Deviation from Test Standard

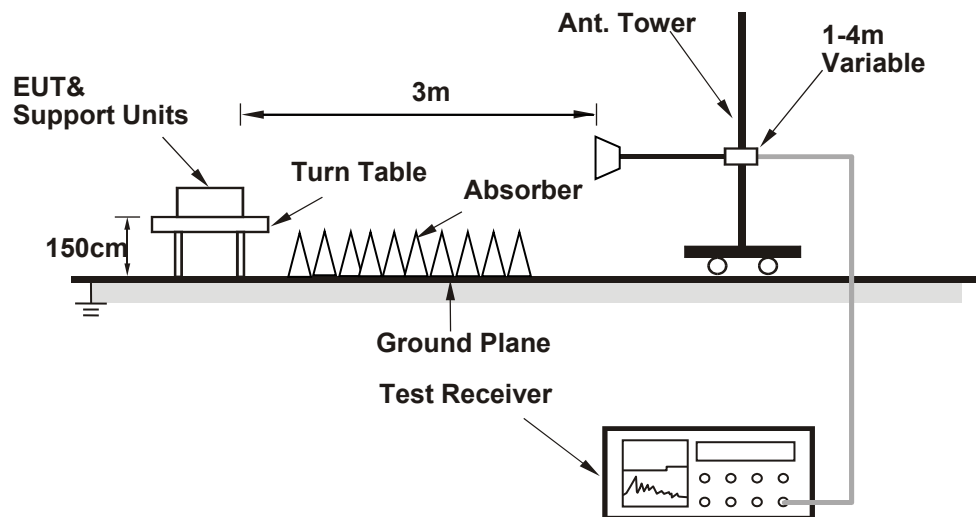
No deviation.

#### 4.8.4 Test Setup

For radiated emission 30MHz to 1GHz



For radiated emission above 1GHz



For the actual test configuration, please refer to the attached file (Test Setup Photo).

#### 4.8.5 Test Results

Below 1GHz

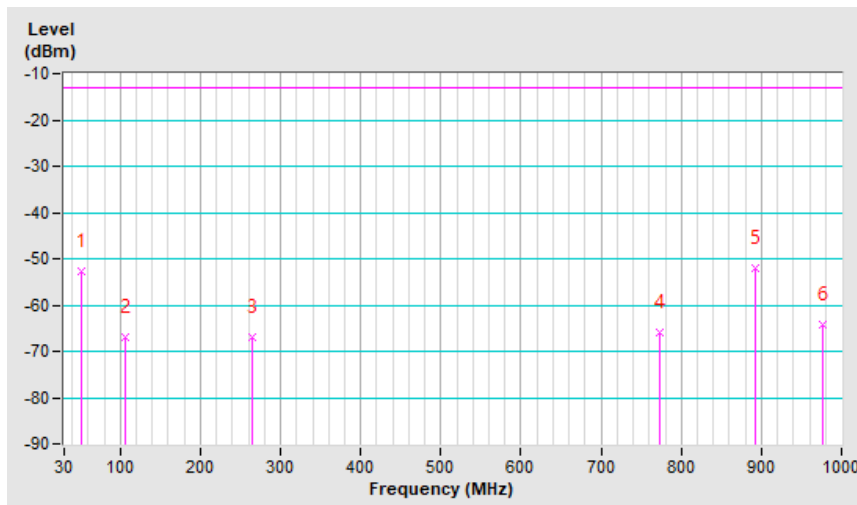
LTE Band 5, Channel Bandwidth: 10MHz

|                          |                                |                 |                |
|--------------------------|--------------------------------|-----------------|----------------|
| Mode                     | TX channel 20525<br>(836.5MHz) | Frequency Range | Below 1000 MHz |
| Environmental Conditions | 22deg. C, 68%RH                | Input Power     | 120Vac, 60Hz   |
| Tested By                | Greg Lin                       |                 |                |

| Antenna Polarity & Test Distance: Horizontal at 3 M |               |               |                       |                        |              |              |              |
|---|---------------|---------------|-----------------------|------------------------|--------------|--------------|--------------|
| No.   | Freq. (MHz)   | Reading (dBm) | S.G Power Value (dBm) | Correction Factor (dB) | ERP (dBm)    | Limit (dBm)  | Margin (dB)  |
| 1   | 51.34         | -49.4         | -45.5                 | -7.3                   | -52.8        | -13.0        | -39.8        |
| 2   | 106.63        | -56.8         | -64.7                 | -2.2                   | -66.9        | -13.0        | -53.9        |
| 3   | 264.74        | -60.4         | -65.4                 | -1.6                   | -67.0        | -13.0        | -54.0        |
| 4   | 773.02        | -68.5         | -69.8                 | 4.0                    | -65.8        | -13.0        | -52.8        |
| <b>5</b>  | <b>893.30</b> | <b>-57.1</b>  | <b>-55.5</b>          | <b>3.5</b>             | <b>-52.0</b> | <b>-13.0</b> | <b>-39.0</b> |
| 6   | 975.75        | -71.0         | -67.9                 | 3.6                    | -64.3        | -13.0        | -51.3        |

Remarks:

- ERP (dBm) = S.G Value (dBm) + Correction Factor (dB).
- Correction Factor (dB) = Substitution Antenna Gain (dB) - Cable Loss (dB) + 2.15dB.

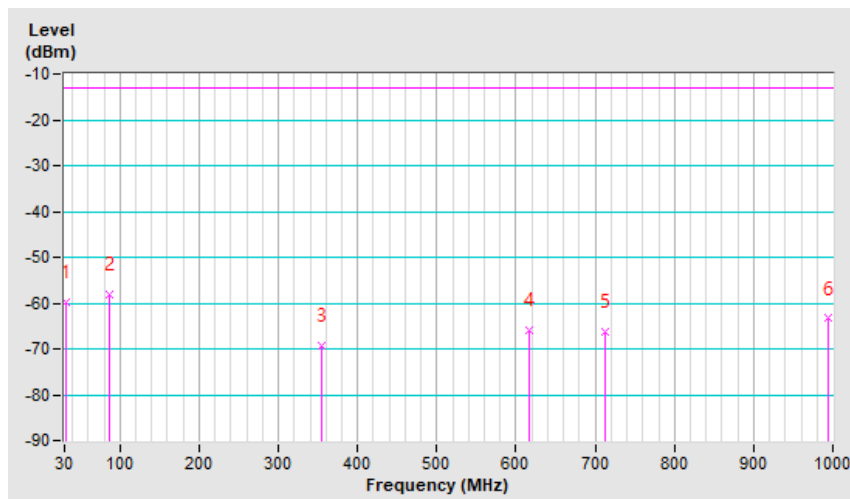


|                          |                                |                 |                |
|--------------------------|--------------------------------|-----------------|----------------|
| Mode                     | TX channel 20525<br>(836.5MHz) | Frequency Range | Below 1000 MHz |
| Environmental Conditions | 22deg. C, 68%RH                | Input Power     | 120Vac, 60Hz   |
| Tested By                | Greg Lin                       |                 |                |

| Antenna Polarity & Test Distance: Vertical at 3 M |             |               |                       |                        |           |             |             |
|---|-------------|---------------|-----------------------|------------------------|-----------|-------------|-------------|
| No.   | Freq. (MHz) | Reading (dBm) | S.G Power Value (dBm) | Correction Factor (dB) | ERP (dBm) | Limit (dBm) | Margin (dB) |
| 1   | 31.00       | -47.4         | -40.9                 | -18.8                  | -59.7     | -13.0       | -46.7       |
| 2   | 86.33       | -50.2         | -58.2                 | 0.0                    | -58.2     | -13.0       | -45.2       |
| 3   | 354.95      | -66.7         | -73.1                 | 3.9                    | -69.2     | -13.0       | -56.2       |
| 4   | 615.88      | -68.8         | -69.8                 | 3.7                    | -66.1     | -13.0       | -53.1       |
| 5   | 712.88      | -70.0         | -69.7                 | 3.5                    | -66.2     | -13.0       | -53.2       |
| 6   | 994.18      | -71.3         | -66.8                 | 3.4                    | -63.4     | -13.0       | -50.4       |

Remarks:

- ERP (dBm) = S.G Value (dBm) + Correction Factor (dB).
- Correction Factor (dB) = Substitution Antenna Gain (dB) - Cable Loss (dB) + 2.15dB.





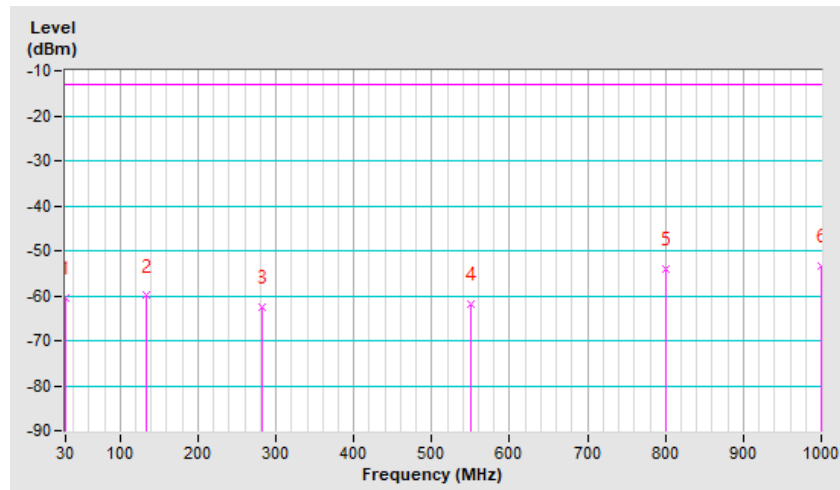
LTE Band 26, Channel Bandwidth 5MHz

|                          |                                |                 |                |
|--------------------------|--------------------------------|-----------------|----------------|
| Mode                     | TX channel 26815<br>(826.5MHz) | Frequency Range | Below 1000 MHz |
| Environmental Conditions | 22deg. C, 68%RH                | Input Power     | 120Vac, 60Hz   |
| Tested By                | Greg Lin                       |                 |                |

| Antenna Polarity & Test Distance: Horizontal at 3 M |             |               |                       |                        |           |             |             |
|---|-------------|---------------|-----------------------|------------------------|-----------|-------------|-------------|
| No.   | Freq. (MHz) | Reading (dBm) | S.G Power Value (dBm) | Correction Factor (dB) | ERP (dBm) | Limit (dBm) | Margin (dB) |
| 1   | 30.00       | -62.2         | -41.0                 | -19.4                  | -60.4     | -13.0       | -47.4       |
| 2   | 133.79      | -51.9         | -56.7                 | -3.3                   | -60.0     | -13.0       | -47.0       |
| 3   | 283.14      | -56.5         | -61.0                 | -1.7                   | -62.7     | -13.0       | -49.7       |
| 4   | 550.89      | -60.1         | -65.7                 | 3.8                    | -61.9     | -13.0       | -48.9       |
| 5   | 801.18      | -57.4         | -57.9                 | 4.0                    | -53.9     | -13.0       | -40.9       |
| 6   | 999.09      | -60.1         | -56.7                 | 3.3                    | -53.4     | -13.0       | -40.4       |

Remarks:

- ERP (dBm) = S.G Value (dBm) + Correction Factor (dB).
- Correction Factor (dB) = Substitution Antenna Gain (dB) - Cable Loss (dB) + 2.15dB.



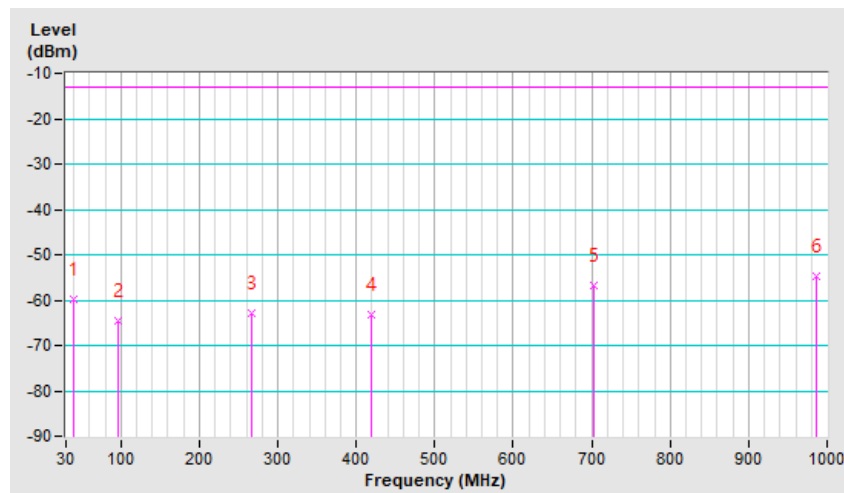
|                          |                                |                 |                |
|--------------------------|--------------------------------|-----------------|----------------|
| Mode                     | TX channel 26815<br>(826.5MHz) | Frequency Range | Below 1000 MHz |
| Environmental Conditions | 22deg. C, 68%RH                | Input Power     | 120Vac, 60Hz   |
| Tested By                | Greg Lin                       |                 |                |

Antenna Polarity & Test Distance: Vertical at 3 M

| No. | Freq. (MHz) | Reading (dBm) | S.G Power Value (dBm) | Correction Factor (dB) | ERP (dBm) | Limit (dBm) | Margin (dB) |
|-----|-------------|---------------|-----------------------|------------------------|-----------|-------------|-------------|
| 1   | 40.70       | -48.3         | -46.8                 | -13.1                  | -59.9     | -13.0       | -46.9       |
| 2   | 96.99       | -54.4         | -63.4                 | -1.2                   | -64.6     | -13.0       | -51.6       |
| 3   | 266.71      | -62.1         | -61.4                 | -1.6                   | -63.0     | -13.0       | -50.0       |
| 4   | 419.03      | -60.6         | -66.6                 | 3.5                    | -63.1     | -13.0       | -50.1       |
| 5   | 703.15      | -60.5         | -60.2                 | 3.5                    | -56.7     | -13.0       | -43.7       |
| 6   | 986.42      | -62.1         | -58.3                 | 3.5                    | -54.8     | -13.0       | -41.8       |

Remarks:

- ERP (dBm) = S.G Value (dBm) + Correction Factor (dB).
- Correction Factor (dB) = Substitution Antenna Gain (dB) - Cable Loss (dB) + 2.15dB.



Above 1GHz

LTE Band 5, Channel Bandwidth: 1.4MHz

|                          |                                |                 |              |
|--------------------------|--------------------------------|-----------------|--------------|
| Mode                     | TX channel 20407<br>(824.7MHz) | Frequency Range | 1GHz ~ 10GHz |
| Environmental Conditions | 22deg. C, 68%RH                | Input Power     | 120Vac, 60Hz |
| Tested By                | Greg Lin                       |                 |              |

Antenna Polarity & Test Distance: Horizontal at 3 M

| No. | Freq. (MHz) | Reading (dBm) | S.G Power Value (dBm) | Correction Factor (dB) | ERP (dBm) | Limit (dBm) | Margin (dB) |
|-----|-------------|---------------|-----------------------|------------------------|-----------|-------------|-------------|
| 1   | 1649.40     | -65.7         | -57.9                 | 0.9                    | -57.0     | -13.0       | -44.0       |

Antenna Polarity & Test Distance: Vertical at 3 M

| No. | Freq. (MHz) | Reading (dBm) | S.G Power Value (dBm) | Correction Factor (dB) | ERP (dBm) | Limit (dBm) | Margin (dB) |
|-----|-------------|---------------|-----------------------|------------------------|-----------|-------------|-------------|
| 1   | 1649.40     | -64.2         | -57.0                 | 0.9                    | -56.1     | -13.0       | -43.1       |

|                          |                                |                 |              |
|--------------------------|--------------------------------|-----------------|--------------|
| Mode                     | TX channel 20525<br>(836.5MHz) | Frequency Range | 1GHz ~ 10GHz |
| Environmental Conditions | 22deg. C, 68%RH                | Input Power     | 120Vac, 60Hz |
| Tested By                | Greg Lin                       |                 |              |

Antenna Polarity & Test Distance: Horizontal at 3 M

| No. | Freq. (MHz) | Reading (dBm) | S.G Power Value (dBm) | Correction Factor (dB) | ERP (dBm) | Limit (dBm) | Margin (dB) |
|-----|-------------|---------------|-----------------------|------------------------|-----------|-------------|-------------|
| 1   | 1673.00     | -66.2         | -58.6                 | 0.8                    | -57.8     | -13.0       | -44.8       |

Antenna Polarity & Test Distance: Vertical at 3 M

| No. | Freq. (MHz) | Reading (dBm) | S.G Power Value (dBm) | Correction Factor (dB) | ERP (dBm) | Limit (dBm) | Margin (dB) |
|-----|-------------|---------------|-----------------------|------------------------|-----------|-------------|-------------|
| 1   | 1673.00     | -64.0         | -56.7                 | 0.8                    | -55.9     | -13.0       | -42.9       |

|                          |                                |                 |              |
|--------------------------|--------------------------------|-----------------|--------------|
| Mode                     | TX channel 20643<br>(848.3MHz) | Frequency Range | 1GHz ~ 10GHz |
| Environmental Conditions | 22deg. C, 68%RH                | Input Power     | 120Vac, 60Hz |
| Tested By                | Greg Lin                       |                 |              |

Antenna Polarity & Test Distance: Horizontal at 3 M

| No. | Freq. (MHz) | Reading (dBm) | S.G Power Value (dBm) | Correction Factor (dB) | ERP (dBm) | Limit (dBm) | Margin (dB) |
|-----|-------------|---------------|-----------------------|------------------------|-----------|-------------|-------------|
| 1   | 1696.60     | -65.3         | -57.8                 | 0.7                    | -57.1     | -13.0       | -44.1       |

Antenna Polarity & Test Distance: Vertical at 3 M

| No. | Freq. (MHz) | Reading (dBm) | S.G Power Value (dBm) | Correction Factor (dB) | ERP (dBm) | Limit (dBm) | Margin (dB) |
|-----|-------------|---------------|-----------------------|------------------------|-----------|-------------|-------------|
| 1   | 1696.60     | -64.0         | -56.7                 | 0.7                    | -56.0     | -13.0       | -43.0       |

Remarks:

1. ERP (dBm) = S.G Value (dBm) + Correction Factor (dB).
2. Correction Factor (dB) = Substitution Antenna Gain (dB) - Cable Loss (dB) + 2.15dB.

LTE Band 5, Channel Bandwidth: 5MHz

|                          |                                |                 |              |
|--------------------------|--------------------------------|-----------------|--------------|
| Mode                     | TX channel 20425<br>(826.5MHz) | Frequency Range | 1GHz ~ 10GHz |
| Environmental Conditions | 22deg. C, 68%RH                | Input Power     | 120Vac, 60Hz |
| Tested By                | Greg Lin                       |                 |              |

Antenna Polarity & Test Distance: Horizontal at 3 M

| No. | Freq. (MHz) | Reading (dBm) | S.G Power Value (dBm) | Correction Factor (dB) | ERP (dBm) | Limit (dBm) | Margin (dB) |
|-----|-------------|---------------|-----------------------|------------------------|-----------|-------------|-------------|
| 1   | 1653.00     | -65.7         | -57.9                 | 0.9                    | -57.0     | -13.0       | -44.0       |

Antenna Polarity & Test Distance: Vertical at 3 M

| No. | Freq. (MHz) | Reading (dBm) | S.G Power Value (dBm) | Correction Factor (dB) | ERP (dBm) | Limit (dBm) | Margin (dB) |
|-----|-------------|---------------|-----------------------|------------------------|-----------|-------------|-------------|
| 1   | 1653.00     | -64.0         | -56.8                 | 0.9                    | -55.9     | -13.0       | -42.9       |

|                          |                                |                 |              |
|--------------------------|--------------------------------|-----------------|--------------|
| Mode                     | TX channel 20525<br>(836.5MHz) | Frequency Range | 1GHz ~ 10GHz |
| Environmental Conditions | 22deg. C, 68%RH                | Input Power     | 120Vac, 60Hz |
| Tested By                | Greg Lin                       |                 |              |

Antenna Polarity & Test Distance: Horizontal at 3 M

| No. | Freq. (MHz) | Reading (dBm) | S.G Power Value (dBm) | Correction Factor (dB) | ERP (dBm) | Limit (dBm) | Margin (dB) |
|-----|-------------|---------------|-----------------------|------------------------|-----------|-------------|-------------|
| 1   | 1673.00     | -65.5         | -57.9                 | 0.8                    | -57.1     | -13.0       | -44.1       |

Antenna Polarity & Test Distance: Vertical at 3 M

| No. | Freq. (MHz) | Reading (dBm) | S.G Power Value (dBm) | Correction Factor (dB) | ERP (dBm) | Limit (dBm) | Margin (dB) |
|-----|-------------|---------------|-----------------------|------------------------|-----------|-------------|-------------|
| 1   | 1673.00     | -64.2         | -56.9                 | 0.8                    | -56.1     | -13.0       | -43.1       |

|                          |                                |                 |              |
|--------------------------|--------------------------------|-----------------|--------------|
| Mode                     | TX channel 20625<br>(846.5MHz) | Frequency Range | 1GHz ~ 10GHz |
| Environmental Conditions | 22deg. C, 68%RH                | Input Power     | 120Vac, 60Hz |
| Tested By                | Greg Lin                       |                 |              |

Antenna Polarity & Test Distance: Horizontal at 3 M

| No. | Freq. (MHz) | Reading (dBm) | S.G Power Value (dBm) | Correction Factor (dB) | ERP (dBm) | Limit (dBm) | Margin (dB) |
|-----|-------------|---------------|-----------------------|------------------------|-----------|-------------|-------------|
| 1   | 1693.00     | -65.2         | -57.7                 | 0.7                    | -57.0     | -13.0       | -44.0       |

Antenna Polarity & Test Distance: Vertical at 3 M

| No. | Freq. (MHz) | Reading (dBm) | S.G Power Value (dBm) | Correction Factor (dB) | ERP (dBm) | Limit (dBm) | Margin (dB) |
|-----|-------------|---------------|-----------------------|------------------------|-----------|-------------|-------------|
| 1   | 1693.00     | -63.8         | -56.5                 | 0.7                    | -55.8     | -13.0       | -42.8       |

Remarks:

- ERP (dBm) = S.G Value (dBm) + Correction Factor (dB).
- Correction Factor (dB) = Substitution Antenna Gain (dB) - Cable Loss (dB) + 2.15dB.

LTE Band 5, Channel Bandwidth: 10MHz

|                          |                                |                 |              |
|--------------------------|--------------------------------|-----------------|--------------|
| Mode                     | TX channel 20450<br>(829.0MHz) | Frequency Range | 1GHz ~ 10GHz |
| Environmental Conditions | 22deg. C, 68%RH                | Input Power     | 120Vac, 60Hz |
| Tested By                | Greg Lin                       |                 |              |

Antenna Polarity & Test Distance: Horizontal at 3 M

| No. | Freq. (MHz) | Reading (dBm) | S.G Power Value (dBm) | Correction Factor (dB) | ERP (dBm) | Limit (dBm) | Margin (dB) |
|-----|-------------|---------------|-----------------------|------------------------|-----------|-------------|-------------|
| 1   | 1658.00     | -65.3         | -57.7                 | 0.9                    | -56.8     | -13.0       | -43.8       |

Antenna Polarity & Test Distance: Vertical at 3 M

| No. | Freq. (MHz) | Reading (dBm) | S.G Power Value (dBm) | Correction Factor (dB) | ERP (dBm) | Limit (dBm) | Margin (dB) |
|-----|-------------|---------------|-----------------------|------------------------|-----------|-------------|-------------|
| 1   | 1658.00     | -64.2         | -56.9                 | 0.9                    | -56.0     | -13.0       | -43.0       |

|                          |                                |                 |              |
|--------------------------|--------------------------------|-----------------|--------------|
| Mode                     | TX channel 20525<br>(836.5MHz) | Frequency Range | 1GHz ~ 10GHz |
| Environmental Conditions | 22deg. C, 68%RH                | Input Power     | 120Vac, 60Hz |
| Tested By                | Greg Lin                       |                 |              |

Antenna Polarity & Test Distance: Horizontal at 3 M

| No. | Freq. (MHz) | Reading (dBm) | S.G Power Value (dBm) | Correction Factor (dB) | ERP (dBm) | Limit (dBm) | Margin (dB) |
|-----|-------------|---------------|-----------------------|------------------------|-----------|-------------|-------------|
| 1   | 1673.00     | -65.8         | -58.1                 | 0.8                    | -57.3     | -13.0       | -44.3       |

Antenna Polarity & Test Distance: Vertical at 3 M

| No. | Freq. (MHz) | Reading (dBm) | S.G Power Value (dBm) | Correction Factor (dB) | ERP (dBm) | Limit (dBm) | Margin (dB) |
|-----|-------------|---------------|-----------------------|------------------------|-----------|-------------|-------------|
| 1   | 1673.00     | -63.6         | -56.3                 | 0.8                    | -55.5     | -13.0       | -42.5       |

|                          |                                |                 |              |
|--------------------------|--------------------------------|-----------------|--------------|
| Mode                     | TX channel 20600<br>(844.0MHz) | Frequency Range | 1GHz ~ 10GHz |
| Environmental Conditions | 22deg. C, 68%RH                | Input Power     | 120Vac, 60Hz |
| Tested By                | Greg Lin                       |                 |              |

Antenna Polarity & Test Distance: Horizontal at 3 M

| No. | Freq. (MHz) | Reading (dBm) | S.G Power Value (dBm) | Correction Factor (dB) | ERP (dBm) | Limit (dBm) | Margin (dB) |
|-----|-------------|---------------|-----------------------|------------------------|-----------|-------------|-------------|
| 1   | 1688.00     | -65.8         | -58.1                 | 0.7                    | -57.4     | -13.0       | -44.4       |

Antenna Polarity & Test Distance: Vertical at 3 M

| No. | Freq. (MHz) | Reading (dBm) | S.G Power Value (dBm) | Correction Factor (dB) | ERP (dBm) | Limit (dBm) | Margin (dB) |
|-----|-------------|---------------|-----------------------|------------------------|-----------|-------------|-------------|
| 1   | 1688.00     | -64.8         | -57.4                 | 0.7                    | -56.7     | -13.0       | -43.7       |

Remarks:

- ERP (dBm) = S.G Value (dBm) + Correction Factor (dB).
- Correction Factor (dB) = Substitution Antenna Gain (dB) - Cable Loss (dB) + 2.15dB.

LTE Band 26, Channel Bandwidth 1.4MHz

|                          |                                |                 |              |
|--------------------------|--------------------------------|-----------------|--------------|
| Mode                     | TX channel 26797<br>(824.7MHz) | Frequency Range | 1GHz ~ 10GHz |
| Environmental Conditions | 22deg. C, 68%RH                | Input Power     | 120Vac, 60Hz |
| Tested By                | Greg Lin                       |                 |              |

| Antenna Polarity & Test Distance: Horizontal at 3 M |             |               |                       |                        |           |             |             |
|---|-------------|---------------|-----------------------|------------------------|-----------|-------------|-------------|
| No.   | Freq. (MHz) | Reading (dBm) | S.G Power Value (dBm) | Correction Factor (dB) | ERP (dBm) | Limit (dBm) | Margin (dB) |
| 1   | 1649.40     | -64.2         | -56.4                 | 0.9                    | -55.5     | -13.0       | -42.5       |
| Antenna Polarity & Test Distance: Vertical at 3 M   |             |               |                       |                        |           |             |             |
| No.   | Freq. (MHz) | Reading (dBm) | S.G Power Value (dBm) | Correction Factor (dB) | ERP (dBm) | Limit (dBm) | Margin (dB) |
| 1   | 1649.40     | -61.6         | -54.4                 | 0.9                    | -53.5     | -13.0       | -40.5       |

|                          |                                |                 |              |
|--------------------------|--------------------------------|-----------------|--------------|
| Mode                     | TX channel 26915<br>(836.5MHz) | Frequency Range | 1GHz ~ 10GHz |
| Environmental Conditions | 22deg. C, 68%RH                | Input Power     | 120Vac, 60Hz |
| Tested By                | Greg Lin                       |                 |              |

| Antenna Polarity & Test Distance: Horizontal at 3 M |             |               |                       |                        |           |             |             |
|---|-------------|---------------|-----------------------|------------------------|-----------|-------------|-------------|
| No.   | Freq. (MHz) | Reading (dBm) | S.G Power Value (dBm) | Correction Factor (dB) | ERP (dBm) | Limit (dBm) | Margin (dB) |
| 1   | 1673.00     | -64.8         | -57.1                 | 0.8                    | -56.3     | -13.0       | -43.3       |
| Antenna Polarity & Test Distance: Vertical at 3 M   |             |               |                       |                        |           |             |             |
| No.   | Freq. (MHz) | Reading (dBm) | S.G Power Value (dBm) | Correction Factor (dB) | ERP (dBm) | Limit (dBm) | Margin (dB) |
| 1   | 1673.00     | -61.9         | -54.6                 | 0.8                    | -53.8     | -13.0       | -40.8       |

|                          |                                |                 |              |
|--------------------------|--------------------------------|-----------------|--------------|
| Mode                     | TX channel 27033<br>(848.3MHz) | Frequency Range | 1GHz ~ 10GHz |
| Environmental Conditions | 22deg. C, 68%RH                | Input Power     | 120Vac, 60Hz |
| Tested By                | Greg Lin                       |                 |              |

| Antenna Polarity & Test Distance: Horizontal at 3 M |             |               |                       |                        |           |             |             |
|---|-------------|---------------|-----------------------|------------------------|-----------|-------------|-------------|
| No.   | Freq. (MHz) | Reading (dBm) | S.G Power Value (dBm) | Correction Factor (dB) | ERP (dBm) | Limit (dBm) | Margin (dB) |
| 1   | 1696.60     | -64.7         | -57.1                 | 0.7                    | -56.4     | -13.0       | -43.4       |
| Antenna Polarity & Test Distance: Vertical at 3 M   |             |               |                       |                        |           |             |             |
| No.   | Freq. (MHz) | Reading (dBm) | S.G Power Value (dBm) | Correction Factor (dB) | ERP (dBm) | Limit (dBm) | Margin (dB) |
| 1   | 1696.60     | -62.0         | -54.7                 | 0.7                    | -54.0     | -13.0       | -41.0       |

Remarks:

1. ERP (dBm) = S.G Value (dBm) + Correction Factor (dB).
2. Correction Factor (dB) = Substitution Antenna Gain (dB) - Cable Loss (dB) + 2.15dB.

LTE Band 26, Channel Bandwidth 5MHz

|                          |                                |                 |              |
|--------------------------|--------------------------------|-----------------|--------------|
| Mode                     | TX channel 26815<br>(826.5MHz) | Frequency Range | 1GHz ~ 10GHz |
| Environmental Conditions | 22deg. C, 68%RH                | Input Power     | 120Vac, 60Hz |
| Tested By                | Greg Lin                       |                 |              |

| Antenna Polarity & Test Distance: Horizontal at 3 M |             |               |                       |                        |           |             |             |
|---|-------------|---------------|-----------------------|------------------------|-----------|-------------|-------------|
| No.   | Freq. (MHz) | Reading (dBm) | S.G Power Value (dBm) | Correction Factor (dB) | ERP (dBm) | Limit (dBm) | Margin (dB) |
| 1   | 1653.00     | -64.0         | -56.3                 | 0.9                    | -55.4     | -13.0       | -42.4       |
| Antenna Polarity & Test Distance: Vertical at 3 M   |             |               |                       |                        |           |             |             |
| No.   | Freq. (MHz) | Reading (dBm) | S.G Power Value (dBm) | Correction Factor (dB) | ERP (dBm) | Limit (dBm) | Margin (dB) |
| 1   | 1653.00     | -61.5         | -54.3                 | 0.9                    | -53.4     | -13.0       | -40.4       |

|                          |                                |                 |              |
|--------------------------|--------------------------------|-----------------|--------------|
| Mode                     | TX channel 26915<br>(836.5MHz) | Frequency Range | 1GHz ~ 10GHz |
| Environmental Conditions | 22deg. C, 68%RH                | Input Power     | 120Vac, 60Hz |
| Tested By                | Greg Lin                       |                 |              |

| Antenna Polarity & Test Distance: Horizontal at 3 M |             |               |                       |                        |           |             |             |
|---|-------------|---------------|-----------------------|------------------------|-----------|-------------|-------------|
| No.   | Freq. (MHz) | Reading (dBm) | S.G Power Value (dBm) | Correction Factor (dB) | ERP (dBm) | Limit (dBm) | Margin (dB) |
| 1   | 1673.00     | -64.2         | -56.5                 | 0.8                    | -55.7     | -13.0       | -42.7       |
| Antenna Polarity & Test Distance: Vertical at 3 M   |             |               |                       |                        |           |             |             |
| No.   | Freq. (MHz) | Reading (dBm) | S.G Power Value (dBm) | Correction Factor (dB) | ERP (dBm) | Limit (dBm) | Margin (dB) |
| 1   | 1673.00     | -61.9         | -54.5                 | 0.8                    | -53.7     | -13.0       | -40.7       |

|                          |                                |                 |              |
|--------------------------|--------------------------------|-----------------|--------------|
| Mode                     | TX channel 27015<br>(846.5MHz) | Frequency Range | 1GHz ~ 10GHz |
| Environmental Conditions | 22deg. C, 68%RH                | Input Power     | 120Vac, 60Hz |
| Tested By                | Greg Lin                       |                 |              |

| Antenna Polarity & Test Distance: Horizontal at 3 M |             |               |                       |                        |           |             |             |
|---|-------------|---------------|-----------------------|------------------------|-----------|-------------|-------------|
| No.   | Freq. (MHz) | Reading (dBm) | S.G Power Value (dBm) | Correction Factor (dB) | ERP (dBm) | Limit (dBm) | Margin (dB) |
| 1   | 1693.00     | -64.2         | -56.7                 | 0.7                    | -56.0     | -13.0       | -43.0       |
| Antenna Polarity & Test Distance: Vertical at 3 M   |             |               |                       |                        |           |             |             |
| No.   | Freq. (MHz) | Reading (dBm) | S.G Power Value (dBm) | Correction Factor (dB) | ERP (dBm) | Limit (dBm) | Margin (dB) |
| 1   | 1693.00     | -61.8         | -54.4                 | 0.7                    | -53.7     | -13.0       | -40.7       |

Remarks:

- ERP (dBm) = S.G Value (dBm) + Correction Factor (dB).
- Correction Factor (dB) = Substitution Antenna Gain (dB) - Cable Loss (dB) + 2.15dB.

LTE Band 26, Channel Bandwidth 15MHz

|                          |                                |                 |              |
|--------------------------|--------------------------------|-----------------|--------------|
| Mode                     | TX channel 26865<br>(831.5MHz) | Frequency Range | 1GHz ~ 10GHz |
| Environmental Conditions | 22deg. C, 68%RH                | Input Power     | 120Vac, 60Hz |
| Tested By                | Greg Lin                       |                 |              |

| Antenna Polarity & Test Distance: Horizontal at 3 M |             |               |                       |                        |           |             |             |
|---|-------------|---------------|-----------------------|------------------------|-----------|-------------|-------------|
| No.   | Freq. (MHz) | Reading (dBm) | S.G Power Value (dBm) | Correction Factor (dB) | ERP (dBm) | Limit (dBm) | Margin (dB) |
| 1   | 1663.00     | -64.2         | -56.5                 | 0.9                    | -55.6     | -13.0       | -42.6       |
| Antenna Polarity & Test Distance: Vertical at 3 M   |             |               |                       |                        |           |             |             |
| No.   | Freq. (MHz) | Reading (dBm) | S.G Power Value (dBm) | Correction Factor (dB) | ERP (dBm) | Limit (dBm) | Margin (dB) |
| 1   | 1663.00     | -61.6         | -54.4                 | 0.9                    | -53.5     | -13.0       | -40.5       |

|                          |                                |                 |              |
|--------------------------|--------------------------------|-----------------|--------------|
| Mode                     | TX channel 26915<br>(836.5MHz) | Frequency Range | 1GHz ~ 10GHz |
| Environmental Conditions | 22deg. C, 68%RH                | Input Power     | 120Vac, 60Hz |
| Tested By                | Greg Lin                       |                 |              |

| Antenna Polarity & Test Distance: Horizontal at 3 M |             |               |                       |                        |           |             |             |
|---|-------------|---------------|-----------------------|------------------------|-----------|-------------|-------------|
| No.   | Freq. (MHz) | Reading (dBm) | S.G Power Value (dBm) | Correction Factor (dB) | ERP (dBm) | Limit (dBm) | Margin (dB) |
| 1   | 1673.00     | -64.2         | -56.5                 | 0.8                    | -55.7     | -13.0       | -42.7       |
| Antenna Polarity & Test Distance: Vertical at 3 M   |             |               |                       |                        |           |             |             |
| No.   | Freq. (MHz) | Reading (dBm) | S.G Power Value (dBm) | Correction Factor (dB) | ERP (dBm) | Limit (dBm) | Margin (dB) |
| 1   | 1673.00     | -62.1         | -54.8                 | 0.8                    | -54.0     | -13.0       | -41.0       |

|                          |                                |                 |              |
|--------------------------|--------------------------------|-----------------|--------------|
| Mode                     | TX channel 26965<br>(841.5MHz) | Frequency Range | 1GHz ~ 10GHz |
| Environmental Conditions | 22deg. C, 68%RH                | Input Power     | 120Vac, 60Hz |
| Tested By                | Greg Lin                       |                 |              |

| Antenna Polarity & Test Distance: Horizontal at 3 M |             |               |                       |                        |           |             |             |
|---|-------------|---------------|-----------------------|------------------------|-----------|-------------|-------------|
| No.   | Freq. (MHz) | Reading (dBm) | S.G Power Value (dBm) | Correction Factor (dB) | ERP (dBm) | Limit (dBm) | Margin (dB) |
| 1   | 1683.00     | -64.2         | -56.7                 | 0.8                    | -55.9     | -13.0       | -42.9       |
| Antenna Polarity & Test Distance: Vertical at 3 M   |             |               |                       |                        |           |             |             |
| No.   | Freq. (MHz) | Reading (dBm) | S.G Power Value (dBm) | Correction Factor (dB) | ERP (dBm) | Limit (dBm) | Margin (dB) |
| 1   | 1683.00     | -61.6         | -54.3                 | 0.8                    | -53.5     | -13.0       | -40.5       |

Remarks:

- ERP (dBm) = S.G Value (dBm) + Correction Factor (dB).
- Correction Factor (dB) = Substitution Antenna Gain (dB) - Cable Loss (dB) + 2.15dB.



## 5 Pictures of Test Arrangements

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

## Appendix – 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 and approved 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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