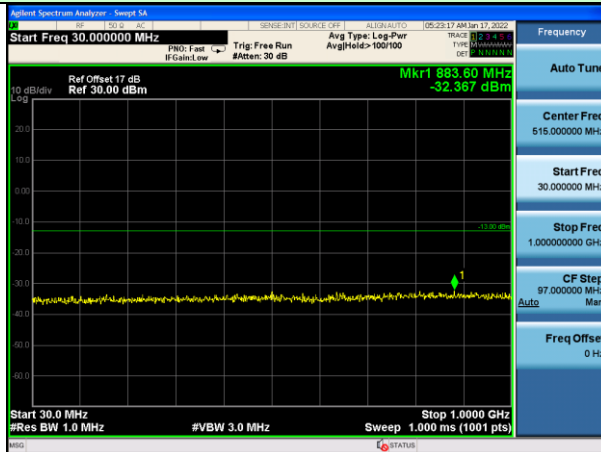
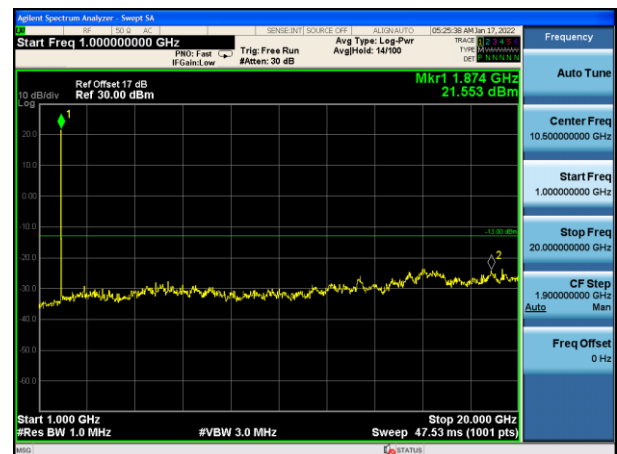
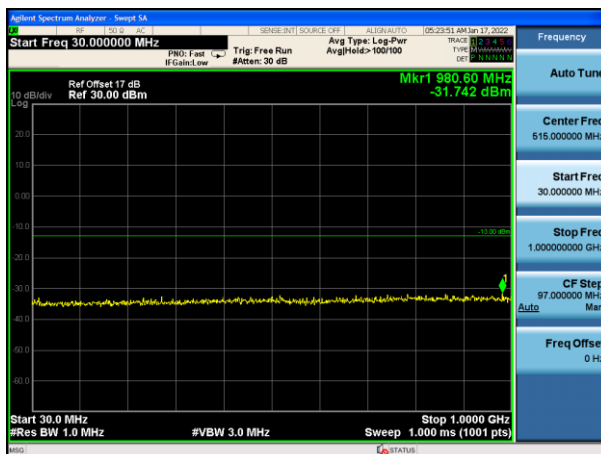


## Test Mode: Traffic mode

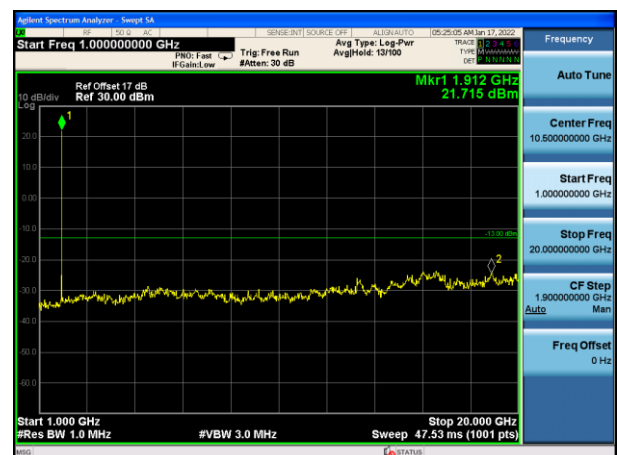
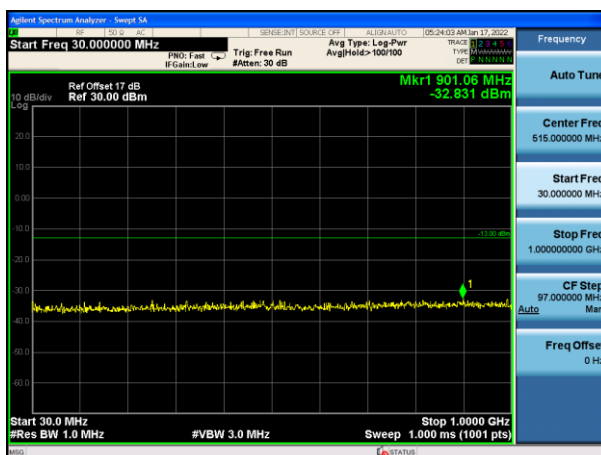
## WCDMA Band II (RMC 12.2Kbps link)



Lowest channel



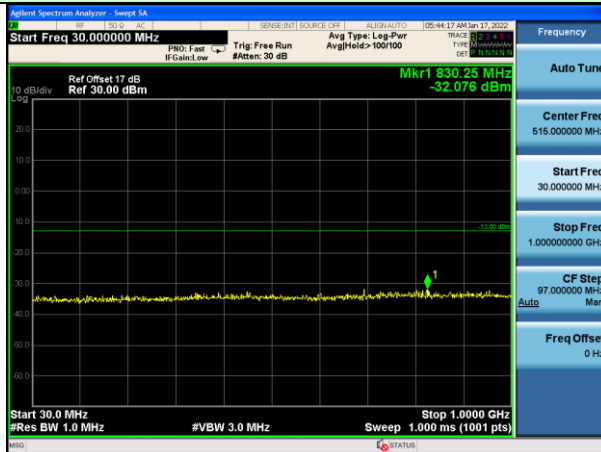
Middle channel



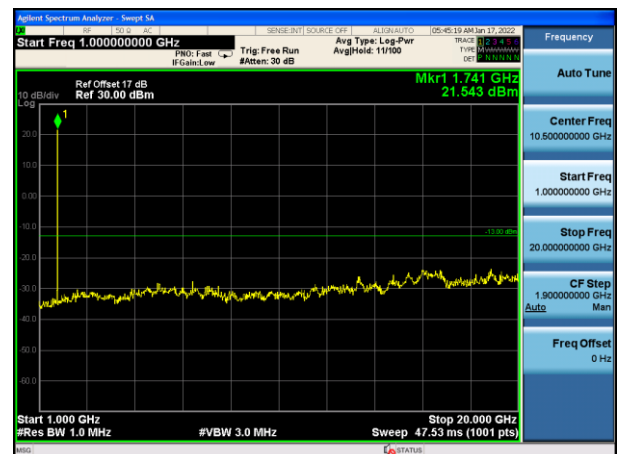
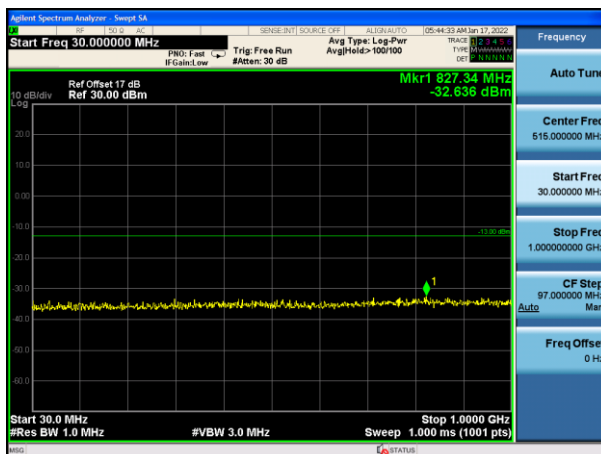
Highest channel

## Test Mode: Traffic mode

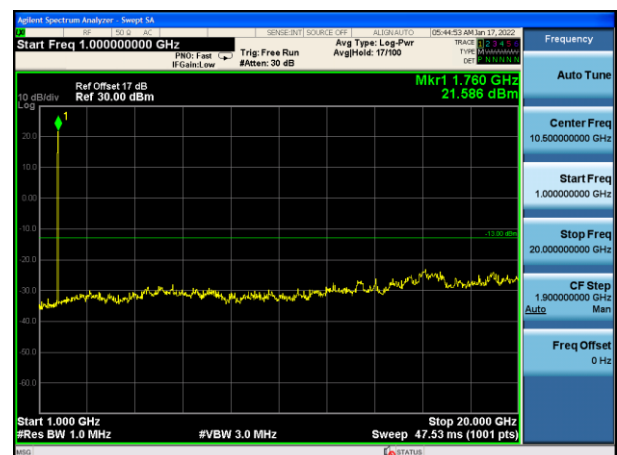
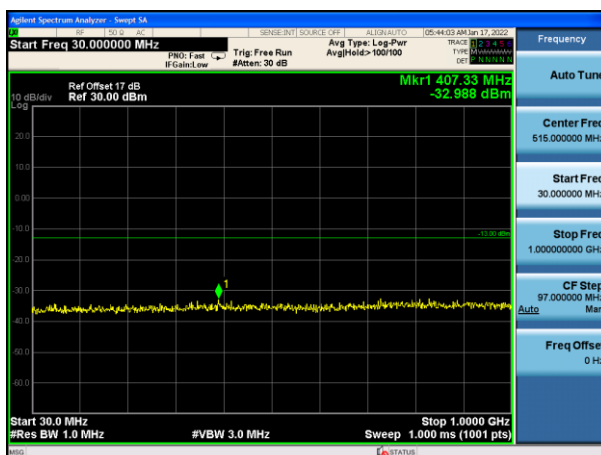
## WCDMA Band IV (RMC 12.2Kbps link)



Lowest channel



Middle channel

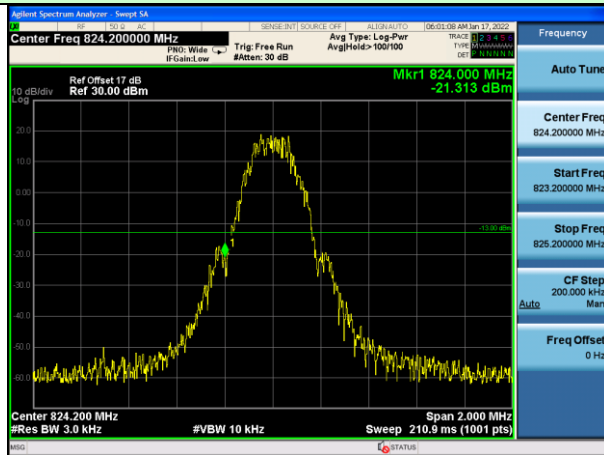


Highest channel

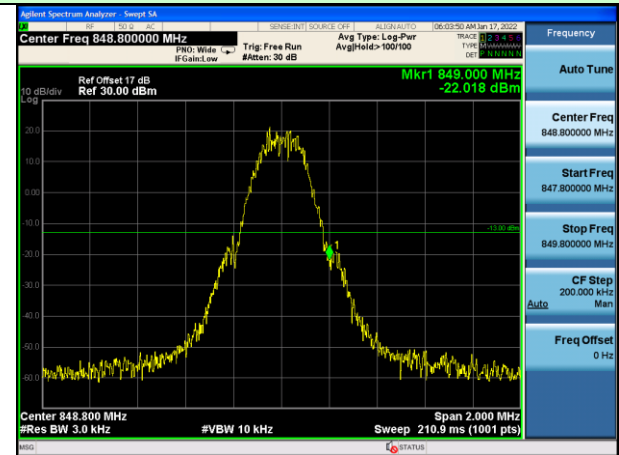
Band Edge:

Test Mode: Traffic mode

GSM850 (GPRS 1 link)



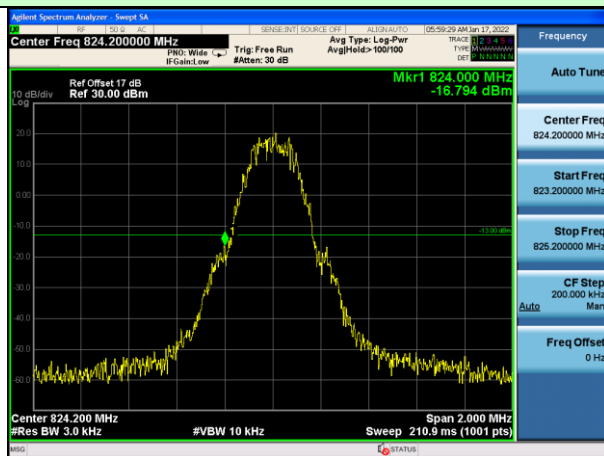
Lowest channel



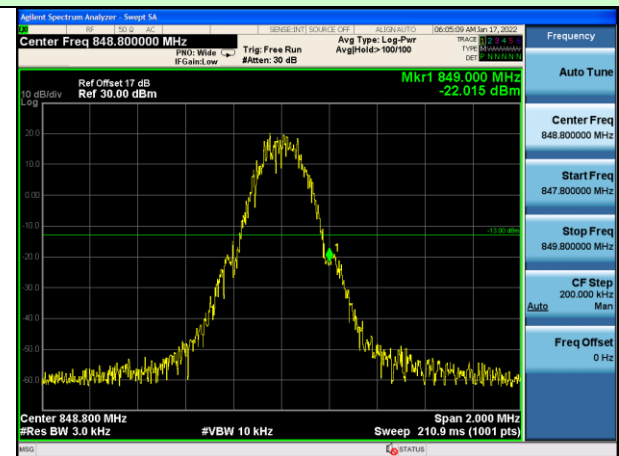
Highest channel

Test Mode: Traffic mode

GSM850 (EGPRS 1 link)



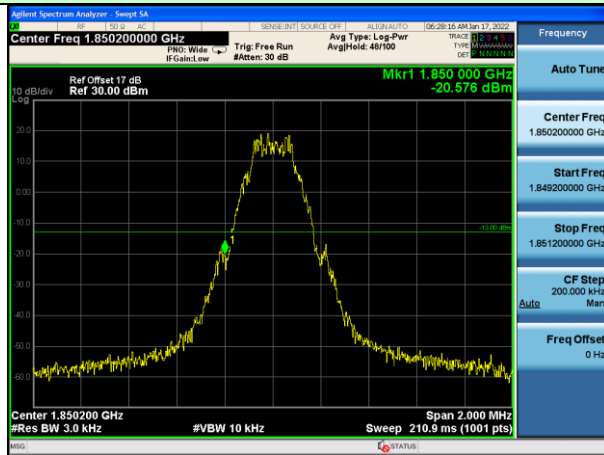
Lowest channel



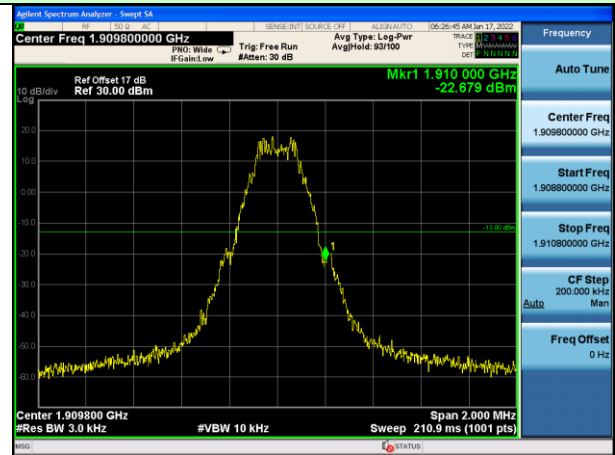
Highest channel

## Test Mode: Traffic mode

## PCS1900 (GPRS 1 link)



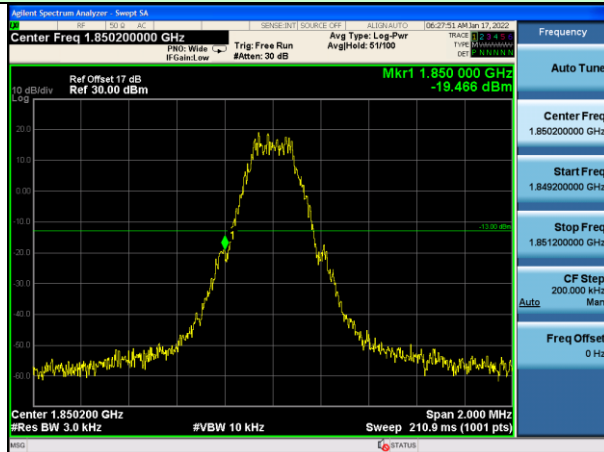
Lowest channel



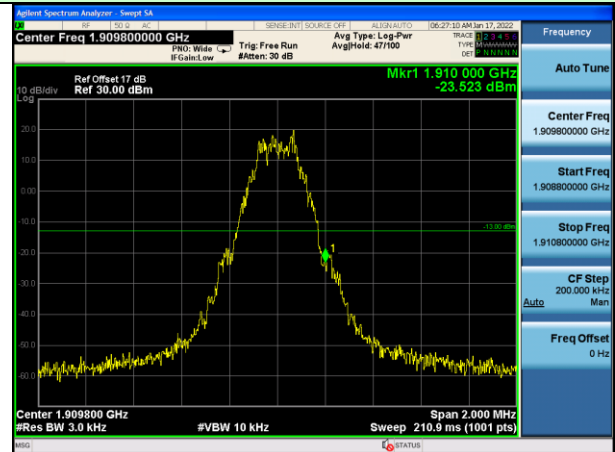
Highest channel

## Test Mode: Traffic mode

## PCS1900 (EGPRS 1 link)



Lowest channel



Highest channel

## Test Mode: Traffic mode

## WCDMA Band V (RMC 12.2Kbps link)



Lowest channel



Highest channel

## Test Mode: Traffic mode

## WCDMA Band II (RMC 12.2Kbps link)



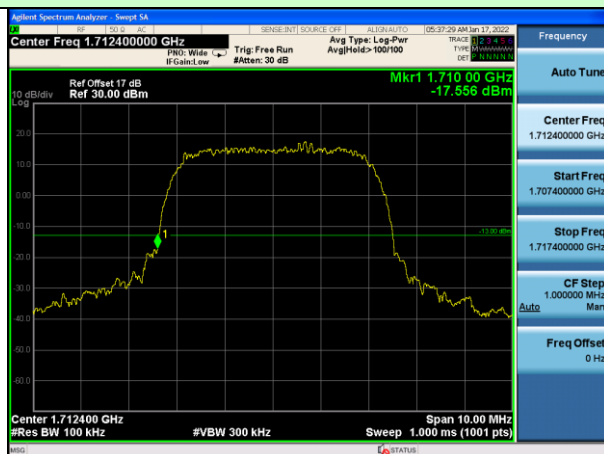
Lowest channel



Highest channel

## Test Mode: Traffic mode

## WCDMA Band IV (RMC 12.2Kbps link)

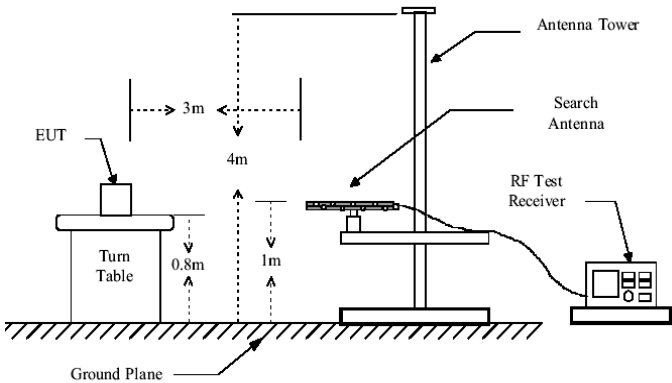
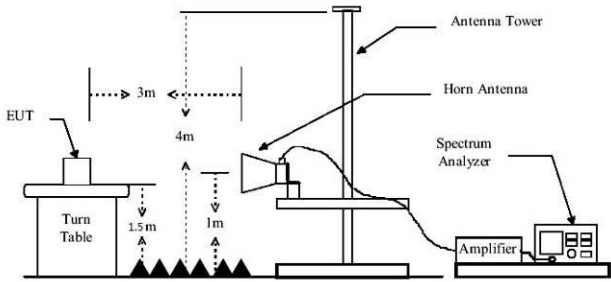
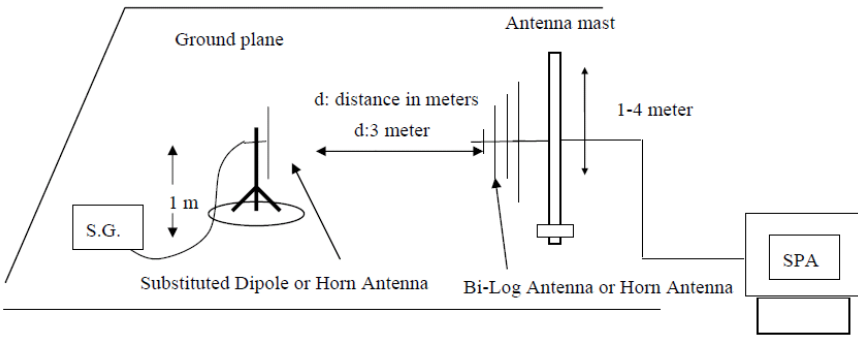


Lowest channel



Highest channel

#### 4.8 ERP, EIRP Measurement

|                   |                                                                                                                                                                                                                                                                                                                              |
|-------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Test Requirement: | FCC part22.913(a) and FCC part24.232(b)                                                                                                                                                                                                                                                                                      |
| Test Method:      | FCC part2.1046                                                                                                                                                                                                                                                                                                               |
| Limit:            | GSM850, WCDMA Band V: 7W<br>PCS1900, WCDMA Band II: 2W<br>WCDMA Band IV: 1W                                                                                                                                                                                                                                                  |
| Test setup:       | <p>Below 1GHz</p>  <p>Above 1GHz</p>  <p>Substituted method:</p>  |

|                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|-------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Test Procedure:   | <ol style="list-style-type: none"><li>1. The EUT was placed on an non-conductive turntable using a non-conductive support. The radiated emission at the fundamental frequency was measured at 3 m with a test antenna and EMI spectrum analyzer.</li><li>2. During the measurement, the EUT was communication with the station. The highest emission was recorded with the rotation of the turntable and the lowering of the test antenna from 4m to 1m. The reading was recorded and the field strength (E in dBuV/m) was calculated.</li><li>3. ERP in frequency band 824.2 –848.80.8MHz were measured using a substitution method. The EUT was replaced by dipole antenna connected, the S.G. output was recorded and ERP was calculated as follows:<br/><math display="block">\text{ERP} = \text{S.G. output (dBm)} + \text{Antenna Gain (dBd)} - \text{Cable Loss (dB)}</math></li><li>4. EIRP in frequency band 1850.2 –1909.8MHz were measured using a substitution method. The EUT was replaced by or horn antenna connected, the S.G. output was recorded and EIRP was calculated as follows:<br/><math display="block">\text{EIRP} = \text{S.G. output (dBm)} + \text{Antenna Gain (dBi)} - \text{Cable Loss (dB)}</math></li></ol> |
| Test Instruments: | Refer to section 5.0 for details                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Test mode:        | Refer to section 6.1 for details                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Test results:     | Pass                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |

## Measurement Data

| EUT mode                | Channel | EUT Pol. | Antenna Pol. | ERP(dBm) | Limit (dBm) | Result |
|-------------------------|---------|----------|--------------|----------|-------------|--------|
| GSM850<br>(GPRS 1 link) | Lowest  | H        | V            | 26.46    | 38.45       | Pass   |
|                         |         |          | H            | 31.21    |             |        |
|                         |         | E1       | V            | 27.00    |             |        |
|                         |         |          | H            | 29.13    |             |        |
|                         |         | E2       | V            | 26.79    |             |        |
|                         |         |          | H            | 30.59    |             |        |
|                         | Middle  | H        | V            | 26.17    | 38.45       | Pass   |
|                         |         |          | H            | 31.27    |             |        |
|                         |         | E1       | V            | 26.45    |             |        |
|                         |         |          | H            | 30.71    |             |        |
|                         |         | E2       | V            | 25.75    |             |        |
|                         |         |          | H            | 29.74    |             |        |
|                         | Highest | H        | V            | 26.93    | 38.45       | Pass   |
|                         |         |          | H            | 30.01    |             |        |
|                         |         | E1       | V            | 27.76    |             |        |
|                         |         |          | H            | 30.90    |             |        |
|                         |         | E2       | V            | 25.97    |             |        |
|                         |         |          | H            | 30.01    |             |        |

| EUT mode                 | Channel | EUT Pol. | Antenna Pol. | ERP(dBm) | Limit (dBm) | Result |
|--------------------------|---------|----------|--------------|----------|-------------|--------|
| GSM850<br>(EGPRS 1 link) | Lowest  | H        | V            | 27.32    | 38.45       | Pass   |
|                          |         |          | H            | 30.77    |             |        |
|                          |         | E1       | V            | 27.74    |             |        |
|                          |         |          | H            | 30.57    |             |        |
|                          |         | E2       | V            | 25.76    |             |        |
|                          |         |          | H            | 28.79    |             |        |
|                          | Middle  | H        | V            | 26.51    | 38.45       | Pass   |
|                          |         |          | H            | 29.58    |             |        |
|                          |         | E1       | V            | 25.86    |             |        |
|                          |         |          | H            | 29.91    |             |        |
|                          |         | E2       | V            | 25.51    |             |        |
|                          |         |          | H            | 27.88    |             |        |
|                          | Highest | H        | V            | 27.63    | 38.45       | Pass   |
|                          |         |          | H            | 30.23    |             |        |
|                          |         | E1       | V            | 27.32    |             |        |
|                          |         |          | H            | 29.21    |             |        |
|                          |         | E2       | V            | 25.22    |             |        |
|                          |         |          | H            | 29.24    |             |        |

| EUT mode                 | Channel | EUT Pol. | Antenna Pol. | EIRP (dBm) | Limit (dBm) | Result |
|--------------------------|---------|----------|--------------|------------|-------------|--------|
| PCS1900<br>(GPRS 1 link) | Lowest  | H        | V            | 20.79      | 33.01       | Pass   |
|                          |         |          | H            | 23.95      |             |        |
|                          |         | E1       | V            | 19.61      |             |        |
|                          |         |          | H            | 23.90      |             |        |
|                          |         | E2       | V            | 22.82      |             |        |
|                          |         |          | H            | 26.50      |             |        |
|                          | Middle  | H        | V            | 22.04      | 33.01       | Pass   |
|                          |         |          | H            | 26.36      |             |        |
|                          |         | E1       | V            | 21.09      |             |        |
|                          |         |          | H            | 24.46      |             |        |
|                          |         | E2       | V            | 21.08      |             |        |
|                          |         |          | H            | 23.75      |             |        |
|                          | Highest | H        | V            | 24.09      | 33.01       | Pass   |
|                          |         |          | H            | 27.57      |             |        |
|                          |         | E1       | V            | 24.15      |             |        |
|                          |         |          | H            | 26.86      |             |        |
|                          |         | E2       | V            | 22.31      |             |        |
|                          |         |          | H            | 24.82      |             |        |

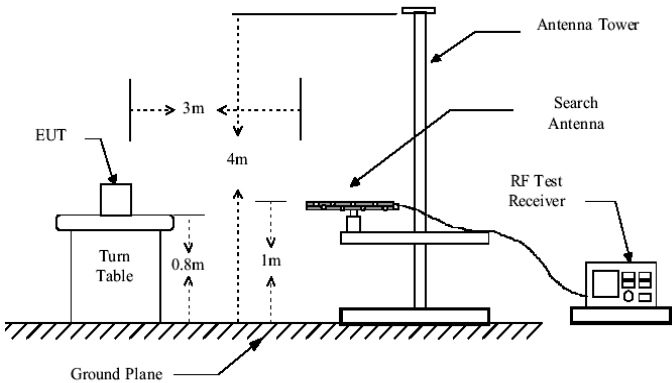
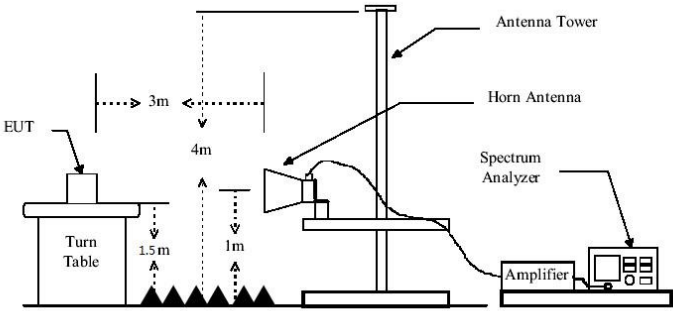
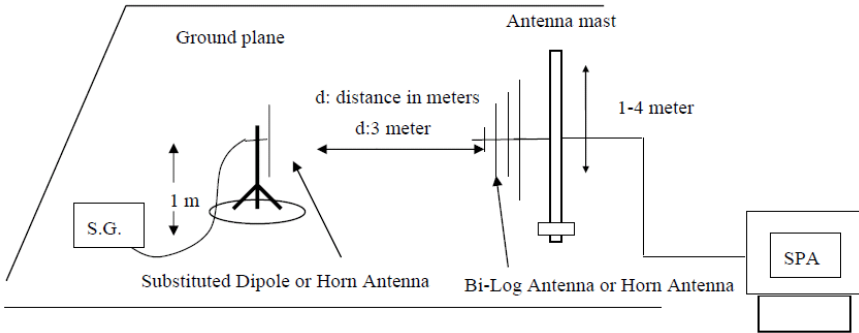
| EUT mode                  | Channel | EUT Pol. | Antenna Pol. | EIRP (dBm) | Limit (dBm) | Result |
|---------------------------|---------|----------|--------------|------------|-------------|--------|
| PCS1900<br>(EGPRS 1 link) | Lowest  | H        | V            | 23.23      | 33.01       | Pass   |
|                           |         |          | H            | 27.25      |             |        |
|                           |         | E1       | V            | 22.95      |             |        |
|                           |         |          | H            | 26.09      |             |        |
|                           |         | E2       | V            | 22.95      |             |        |
|                           |         |          | H            | 26.42      |             |        |
|                           | Middle  | H        | V            | 22.98      | 33.01       | Pass   |
|                           |         |          | H            | 26.24      |             |        |
|                           |         | E1       | V            | 23.49      |             |        |
|                           |         |          | H            | 26.64      |             |        |
|                           |         | E2       | V            | 22.68      |             |        |
|                           |         |          | H            | 25.34      |             |        |
|                           | Highest | H        | V            | 24.32      | 33.01       | Pass   |
|                           |         |          | H            | 26.02      |             |        |
|                           |         | E1       | V            | 24.53      |             |        |
|                           |         |          | H            | 26.08      |             |        |
|                           |         | E2       | V            | 23.68      |             |        |
|                           |         |          | H            | 26.83      |             |        |

| EUT mode        | Channel | EUT Pol. | Antenna Pol. | ERP(dBm) | Limit (dBm) | Result |
|-----------------|---------|----------|--------------|----------|-------------|--------|
| WCDMA<br>Band V | Lowest  | H        | V            | 22.80    | 38.45       | Pass   |
|                 |         |          | H            | 26.07    |             |        |
|                 |         | E1       | V            | 22.86    |             |        |
|                 |         |          | H            | 25.99    |             |        |
|                 |         | E2       | V            | 23.09    |             |        |
|                 |         |          | H            | 25.89    |             |        |
|                 | Middle  | H        | V            | 22.55    | 38.45       | Pass   |
|                 |         |          | H            | 26.79    |             |        |
|                 |         | E1       | V            | 22.53    |             |        |
|                 |         |          | H            | 25.42    |             |        |
|                 |         | E2       | V            | 21.03    |             |        |
|                 |         |          | H            | 24.50    |             |        |
|                 | Highest | H        | V            | 23.67    | 38.45       | Pass   |
|                 |         |          | H            | 26.52    |             |        |
|                 |         | E1       | V            | 23.77    |             |        |
|                 |         |          | H            | 25.63    |             |        |
|                 |         | E2       | V            | 24.33    |             |        |
|                 |         |          | H            | 26.18    |             |        |

| EUT mode         | Channel | EUT Pol. | Antenna Pol. | EIRP(dBm) | Limit (dBm) | Result |
|------------------|---------|----------|--------------|-----------|-------------|--------|
| WCDMA<br>Band II | Lowest  | H        | V            | 23.04     | 33.01       | Pass   |
|                  |         |          | H            | 25.05     |             |        |
|                  |         | E1       | V            | 22.24     |             |        |
|                  |         |          | H            | 24.87     |             |        |
|                  |         | E2       | V            | 22.80     |             |        |
|                  |         |          | H            | 25.22     |             |        |
|                  | Middle  | H        | V            | 21.84     | 33.01       | Pass   |
|                  |         |          | H            | 26.33     |             |        |
|                  |         | E1       | V            | 23.22     |             |        |
|                  |         |          | H            | 25.15     |             |        |
|                  |         | E2       | V            | 21.49     |             |        |
|                  |         |          | H            | 24.76     |             |        |
|                  | Highest | H        | V            | 23.51     | 33.01       | Pass   |
|                  |         |          | H            | 26.48     |             |        |
|                  |         | E1       | V            | 24.39     |             |        |
|                  |         |          | H            | 25.41     |             |        |
|                  |         | E2       | V            | 24.17     |             |        |
|                  |         |          | H            | 26.70     |             |        |

| EUT mode         | Channel | EUT Pol. | Antenna Pol. | EIRP(dBm) | Limit (dBm) | Result |
|------------------|---------|----------|--------------|-----------|-------------|--------|
| WCDMA<br>Band IV | Lowest  | H        | V            | 23.07     | 33.01       | Pass   |
|                  |         |          | H            | 26.51     |             |        |
|                  |         | E1       | V            | 22.37     |             |        |
|                  |         |          | H            | 25.49     |             |        |
|                  |         | E2       | V            | 23.13     |             |        |
|                  |         |          | H            | 26.20     |             |        |
|                  | Middle  | H        | V            | 22.62     | 33.01       | Pass   |
|                  |         |          | H            | 26.31     |             |        |
|                  |         | E1       | V            | 21.85     |             |        |
|                  |         |          | H            | 24.82     |             |        |
|                  |         | E2       | V            | 20.96     |             |        |
|                  |         |          | H            | 24.96     |             |        |
|                  | Highest | H        | V            | 23.40     | 33.01       | Pass   |
|                  |         |          | H            | 26.58     |             |        |
|                  |         | E1       | V            | 24.07     |             |        |
|                  |         |          | H            | 26.26     |             |        |
|                  |         | E2       | V            | 24.19     |             |        |
|                  |         |          | H            | 25.98     |             |        |

#### 4.9 Field strength of spurious radiation measurement

|                   |                                                                                                                                                                                                                                                                                                                             |
|-------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Test Requirement: | FCC part22.917(a) and FCC part24.238(a)                                                                                                                                                                                                                                                                                     |
| Test Method:      | FCC part2.1053                                                                                                                                                                                                                                                                                                              |
| Limit:            | -13dBm                                                                                                                                                                                                                                                                                                                      |
| Test setup:       | <p>Below 1GHz</p>  <p>Above 1GHz</p>  <p>Substituted method:</p>  |

|                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|-------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Test Procedure:   | <ol style="list-style-type: none"><li>1. The EUT was placed on an non-conductive turntable using a non-conductive support. The radiated emission at the fundamental frequency was measured at 3 m with a test antenna and EMI spectrum analyzer.</li><li>2. During the tests, the antenna height and the EUT azimuth were varied in order to identify the maximum level of emissions from the EUT. This maximization process was repeated with the EUT positioned in each of its three orthogonal orientations.</li><li>3. The frequency range up to tenth harmonic was investigated for each of three fundamental frequency (low, middle and high channels). Once spurious emission was identified, the power of the emission was determined using the substitution method.</li><li>4. The spurious emissions attenuation was calculated as the difference between radiated power at the fundamental frequency and the spurious emissions frequency.<br/><math display="block">\text{ERP / EIRP} = \text{S.G. output (dBm)} + \text{Antenna Gain(dB/dBi)} - \text{Cable Loss (dB)}</math></li></ol> |
| Test Instruments: | Refer to section 5.0 for details                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Test mode:        | Refer to section 6.1 for details                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Test results:     | Pass                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |

## Measurement Data

| Test mode:      | GSM850            |             | Test channel: | Lowest  |
|-----------------|-------------------|-------------|---------------|---------|
| Frequency (MHz) | Spurious Emission |             | Limit (dBm)   | Result  |
|                 | Polarization      | Level (dBm) |               |         |
| 1648.40         | Vertical          | -37.00      | -13.00        | Pass    |
| 2472.60         | V                 | -39.50      |               |         |
| 3296.80         | V                 | -38.49      |               |         |
| 4121.00         | V                 | -42.91      |               |         |
| 4945.20         | V                 | ---         |               |         |
| 1648.40         | Horizontal        | -38.97      | -13.00        | Pass    |
| 2472.60         | H                 | -42.50      |               |         |
| 3296.80         | H                 | -45.12      |               |         |
| 4121.00         | H                 | -46.15      |               |         |
| 4945.20         | H                 | ---         |               |         |
| Test mode:      | GSM850            |             | Test channel: | Middle  |
| Frequency (MHz) | Spurious Emission |             | Limit (dBm)   | Result  |
|                 | Polarization      | Level (dBm) |               |         |
| 1673.20         | Vertical          | -37.01      | -13.00        | Pass    |
| 2509.80         | V                 | -39.60      |               |         |
| 3346.40         | V                 | -38.07      |               |         |
| 4183.00         | V                 | -42.98      |               |         |
| 5019.60         | V                 | ---         |               |         |
| 1673.20         | Horizontal        | -38.70      | -13.00        | Pass    |
| 2509.80         | H                 | -42.20      |               |         |
| 3346.40         | H                 | -44.73      |               |         |
| 4183.00         | H                 | -45.54      |               |         |
| 5019.60         | H                 | ---         |               |         |
| Test mode:      | GSM850            |             | Test channel: | Highest |
| Frequency (MHz) | Spurious Emission |             | Limit (dBm)   | Result  |
|                 | Polarization      | Level (dBm) |               |         |
| 1697.60         | Vertical          | -36.62      | -13.00        | Pass    |
| 2546.40         | V                 | -38.99      |               |         |
| 3395.20         | V                 | -37.91      |               |         |
| 4244.00         | V                 | -43.12      |               |         |
| 5092.80         | V                 | ---         |               |         |
| 1697.60         | Horizontal        | -39.50      | -13.00        | Pass    |
| 2546.40         | H                 | -42.28      |               |         |
| 3395.20         | H                 | -45.01      |               |         |
| 4244.00         | H                 | -46.29      |               |         |
| 5092.80         | H                 | ---         |               |         |

Remark :

1. The emission behaviour belongs to narrowband spurious emission.
2. Remark"---" means that the emission level is too low to be measured
3. The emission levels of below 1 GHz are very lower than the limit and not show in test report.

| Test mode:      | PCS1900           |             | Test channel: | Lowest  |
|-----------------|-------------------|-------------|---------------|---------|
| Frequency (MHz) | Spurious Emission |             | Limit (dBm)   | Result  |
|                 | Polarization      | Level (dBm) |               |         |
| 3700.40         | Vertical          | -37.18      | -13.00        | Pass    |
| 5550.60         | V                 | -39.77      |               |         |
| 7400.80         | V                 | -37.99      |               |         |
| 9251.00         | V                 | -43.48      |               |         |
| 11101.20        | V                 | ---         |               |         |
| 3700.40         | Horizontal        | -38.86      | -13.00        | Pass    |
| 5550.60         | H                 | -42.92      |               |         |
| 7400.80         | H                 | -44.74      |               |         |
| 9251.00         | H                 | -46.41      |               |         |
| 11101.20        | H                 | ---         |               |         |
| Test mode:      | PCS1900           |             | Test channel: | Middle  |
| Frequency (MHz) | Spurious Emission |             | Limit (dBm)   | Result  |
|                 | Polarization      | Level (dBm) |               |         |
| 3760.00         | Vertical          | -36.79      | -13.00        | Pass    |
| 5640.00         | V                 | -39.49      |               |         |
| 7520.00         | V                 | -38.31      |               |         |
| 9400.00         | V                 | -43.79      |               |         |
| 11280.00        | V                 | ---         |               |         |
| 3760.00         | Horizontal        | -39.27      | -13.00        | Pass    |
| 5640.00         | H                 | -42.25      |               |         |
| 7520.00         | H                 | -44.87      |               |         |
| 9400.00         | H                 | -45.98      |               |         |
| 11280.00        | H                 | ---         |               |         |
| Test mode:      | PCS1900           |             | Test channel: | Highest |
| Frequency (MHz) | Spurious Emission |             | Limit (dBm)   | Result  |
|                 | Polarization      | Level (dBm) |               |         |
| 3819.60         | Vertical          | -36.36      | -13.00        | Pass    |
| 5729.40         | V                 | -39.79      |               |         |
| 7639.20         | V                 | -38.24      |               |         |
| 9549.00         | V                 | -43.68      |               |         |
| 11458.80        | V                 | ---         |               |         |
| 3819.60         | Horizontal        | -39.15      | -13.00        | Pass    |
| 5729.40         | H                 | -42.73      |               |         |
| 7639.20         | H                 | -44.54      |               |         |
| 9549.00         | H                 | -46.46      |               |         |
| 11458.80        | H                 | ---         |               |         |

Remark:

1. The emission behaviour belongs to narrowband spurious emission.
2. Remark"---" means that the emission level is too low to be measured
3. The emission levels of below 1 GHz are very lower than the limit and not show in test report.

| Test mode:      | WCDMA Band V      |             | Test channel: | Lowest  |
|-----------------|-------------------|-------------|---------------|---------|
| Frequency (MHz) | Spurious Emission |             | Limit (dBm)   | Result  |
|                 | Polarization      | Level (dBm) |               |         |
| 1652.80         | Vertical          | -37.22      | -13.00        | Pass    |
| 2479.20         | V                 | -39.60      |               |         |
| 3305.60         | V                 | -37.70      |               |         |
| 4132.00         | V                 | -43.47      |               |         |
| 4958.40         | V                 | ---         |               |         |
| 1652.80         | Horizontal        | -39.09      | -13.00        | Pass    |
| 2479.20         | H                 | -42.44      |               |         |
| 3305.60         | H                 | -44.83      |               |         |
| 4132.00         | H                 | -46.37      |               |         |
| 4958.40         | H                 | ---         |               |         |
| Test mode:      | WCDMA Band V      |             | Test channel: | Middle  |
| Frequency (MHz) | Spurious Emission |             | Limit (dBm)   | Result  |
|                 | Polarization      | Level (dBm) |               |         |
| 1672.80         | Vertical          | -37.23      | -13.00        | Pass    |
| 2509.20         | V                 | -39.28      |               |         |
| 3345.60         | V                 | -37.96      |               |         |
| 4182.00         | V                 | -43.28      |               |         |
| 5018.40         | V                 | ---         |               |         |
| 1672.80         | Horizontal        | -39.02      | -13.00        | Pass    |
| 2509.20         | H                 | -42.50      |               |         |
| 3345.60         | H                 | -44.88      |               |         |
| 4182.00         | H                 | -45.94      |               |         |
| 5018.40         | H                 | ---         |               |         |
| Test mode:      | WCDMA Band V      |             | Test channel: | Highest |
| Frequency (MHz) | Spurious Emission |             | Limit (dBm)   | Result  |
|                 | Polarization      | Level (dBm) |               |         |
| 1693.20         | Vertical          | -36.34      | -13.00        | Pass    |
| 2539.80         | V                 | -39.00      |               |         |
| 3386.40         | V                 | -38.00      |               |         |
| 4233.00         | V                 | -43.43      |               |         |
| 5079.60         | V                 | ---         |               |         |
| 1693.20         | Horizontal        | -39.58      | -13.00        | Pass    |
| 2539.80         | H                 | -42.91      |               |         |
| 3386.40         | H                 | -44.73      |               |         |
| 4233.00         | H                 | -46.39      |               |         |
| 5079.60         | H                 | ---         |               |         |

Remark :

1. The emission behaviour belongs to narrowband spurious emission.
2. Remark"---" means that the emission level is too low to be measured
3. The emission levels of below 1 GHz are very lower than the limit and not show in test report.

| Test mode:      | WCDMA Band II     |             | Test channel: | Lowest  |
|-----------------|-------------------|-------------|---------------|---------|
| Frequency (MHz) | Spurious Emission |             | Limit (dBm)   | Result  |
|                 | Polarization      | Level (dBm) |               |         |
| 3704.80         | Vertical          | -36.56      | -13.00        | Pass    |
| 5557.20         | V                 | -39.63      |               |         |
| 7409.60         | V                 | -37.84      |               |         |
| 9262.00         | V                 | -43.46      |               |         |
| 11114.40        | V                 | ---         |               |         |
| 3704.80         | Horizontal        | -38.61      | -13.00        | Pass    |
| 5557.20         | H                 | -42.93      |               |         |
| 7409.60         | H                 | -45.17      |               |         |
| 9262.00         | H                 | -45.98      |               |         |
| 11114.40        | H                 | ---         |               |         |
| Test mode:      | WCDMA Band II     |             | Test channel: | Middle  |
| Frequency (MHz) | Spurious Emission |             | Limit (dBm)   | Result  |
|                 | Polarization      | Level (dBm) |               |         |
| 3760.00         | Vertical          | -36.91      | -13.00        | Pass    |
| 5640.00         | V                 | -39.78      |               |         |
| 7520.00         | V                 | -38.45      |               |         |
| 9400.00         | V                 | -43.51      |               |         |
| 11280.00        | V                 | ---         |               |         |
| 3760.00         | Horizontal        | -38.60      | -13.00        | Pass    |
| 5640.00         | H                 | -42.83      |               |         |
| 7520.00         | H                 | -44.44      |               |         |
| 9400.00         | H                 | -45.80      |               |         |
| 11280.00        | H                 | ---         |               |         |
| Test mode:      | WCDMA Band II     |             | Test channel: | Highest |
| Frequency (MHz) | Spurious Emission |             | Limit (dBm)   | Result  |
|                 | Polarization      | Level (dBm) |               |         |
| 3815.20         | Vertical          | -37.20      | -13.00        | Pass    |
| 5722.80         | V                 | -39.82      |               |         |
| 7630.40         | V                 | -37.68      |               |         |
| 9538.00         | V                 | -43.81      |               |         |
| 11445.60        | V                 | ---         |               |         |
| 3815.20         | Horizontal        | -39.39      | -13.00        | Pass    |
| 5722.80         | H                 | -42.80      |               |         |
| 7630.40         | H                 | -44.94      |               |         |
| 9538.00         | H                 | -46.37      |               |         |
| 11445.60        | H                 | ---         |               |         |

Remark:

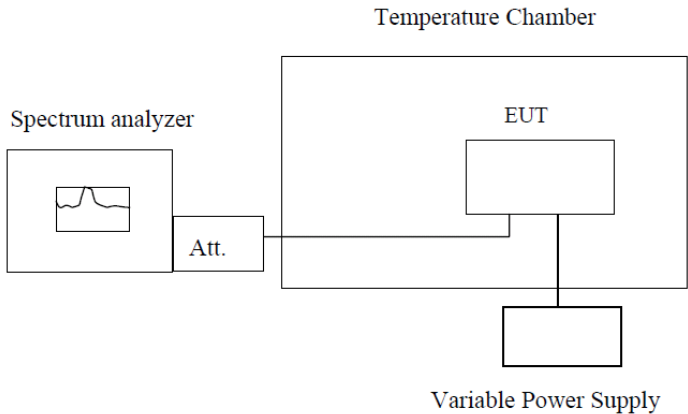
1. The emission behaviour belongs to narrowband spurious emission.
2. Remark"---" means that the emission level is too low to be measured
3. The emission levels of below 1 GHz are very lower than the limit and not show in test report.

| Test mode:      | WCDMA Band IV     |             | Test channel: | Lowest  |
|-----------------|-------------------|-------------|---------------|---------|
| Frequency (MHz) | Spurious Emission |             | Limit (dBm)   | Result  |
|                 | Polarization      | Level (dBm) |               |         |
| 3424.8          | Vertical          | -36.56      | -13.00        | Pass    |
| 5137.2          | V                 | -39.48      |               |         |
| 10274.4         | V                 | -37.79      |               |         |
| 15411.6         | V                 | -42.90      |               |         |
| 30823.2         | V                 | ---         |               |         |
| 3424.8          | Horizontal        | -39.29      | -13.00        | Pass    |
| 5137.2          | H                 | -42.10      |               |         |
| 10274.4         | H                 | -44.71      |               |         |
| 15411.6         | H                 | -46.29      |               |         |
| 30823.2         | H                 | ---         |               |         |
| Test mode:      | WCDMA Band IV     |             | Test channel: | Middle  |
| Frequency (MHz) | Spurious Emission |             | Limit (dBm)   | Result  |
|                 | Polarization      | Level (dBm) |               |         |
| 3480            | Vertical          | -37.15      | -13.00        | Pass    |
| 5220            | V                 | -39.66      |               |         |
| 10440           | V                 | -38.41      |               |         |
| 15660           | V                 | -43.67      |               |         |
| 31320           | V                 | ---         |               |         |
| 3480            | Horizontal        | -38.69      | -13.00        | Pass    |
| 5220            | H                 | -42.47      |               |         |
| 10440           | H                 | -45.10      |               |         |
| 15660           | H                 | -45.68      |               |         |
| 31320           | H                 | ---         |               |         |
| Test mode:      | WCDMA Band IV     |             | Test channel: | Highest |
| Frequency (MHz) | Spurious Emission |             | Limit (dBm)   | Result  |
|                 | Polarization      | Level (dBm) |               |         |
| 3505.2          | Vertical          | -36.64      | -13.00        | Pass    |
| 5257.8          | V                 | -39.11      |               |         |
| 10515.6         | V                 | -38.44      |               |         |
| 15773.4         | V                 | -43.18      |               |         |
| 31546.8         | V                 | ---         |               |         |
| 3505.2          | Horizontal        | -38.58      | -13.00        | Pass    |
| 5257.8          | H                 | -43.06      |               |         |
| 10515.6         | H                 | -44.44      |               |         |
| 15773.4         | H                 | -45.81      |               |         |
| 31546.8         | H                 | ---         |               |         |

Remark:

1. The emission behaviour belongs to narrowband spurious emission.
2. Remark"---" means that the emission level is too low to be measured
3. The emission levels of below 1 GHz are very lower than the limit and not show in test report.

#### 4.10 Frequency stability V.S. Temperature measurement

|                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|-------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Test Requirement: | FCC Part2.1055(a)(1)(b)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Test Method:      | FCC Part2.1055(a)(1)(b)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Limit:            | 2.5ppm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Test setup:       |  <p><b>Note :</b> Measurement setup for testing on Antenna connector</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Test procedure:   | <ol style="list-style-type: none"> <li>1. The equipment under test was connected to an external DC power supply and input rated voltage.</li> <li>2. RF output was connected to a frequency counter or spectrum analyzer via feed through attenuators.</li> <li>3. The EUT was placed inside the temperature chamber.</li> <li>4. Set the spectrum analyzer RBW low enough to obtain the desired frequency resolution and measure EUT 25°C operating frequency as reference frequency.</li> <li>5. Turn EUT off and set the chamber temperature to –20°C. After the temperature stabilized for approximately 30 minutes recorded the frequency.</li> <li>6. Repeat step measure with 10°C increased per stage until the highest temperature of +50°C reached.</li> </ol> |
| Test Instruments: | Refer to section 5.0 for details                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Test mode:        | Refer to section 6.1 for details                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Test results:     | Pass                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |

Measurement Data

| Reference Frequency: GSM850 (GPRS 1 link) Middle channel=190 channel=836.6MHz  |                  |                 |        |             |        |
|--------------------------------------------------------------------------------|------------------|-----------------|--------|-------------|--------|
| Power supplied (Vdc)                                                           | Temperature (°C) | Frequency error |        | Limit (ppm) | Result |
|                                                                                |                  | Hz              | ppm    |             |        |
| 7.20                                                                           | -30              | 57              | 0.0680 | 2.5         | Pass   |
|                                                                                | -20              | 23              | 0.0275 |             |        |
|                                                                                | -10              | 69              | 0.0829 |             |        |
|                                                                                | 0                | 32              | 0.0377 |             |        |
|                                                                                | 10               | 29              | 0.0351 |             |        |
|                                                                                | 20               | 25              | 0.0294 |             |        |
|                                                                                | 30               | 34              | 0.0401 |             |        |
|                                                                                | 40               | 31              | 0.0371 |             |        |
|                                                                                | 50               | 31              | 0.0374 |             |        |
| Reference Frequency: GSM850 (EGPRS 1 link) Middle channel=190 channel=836.6MHz |                  |                 |        |             |        |
| Power supplied (Vdc)                                                           | Temperature (°C) | Frequency error |        | Limit (ppm) | Result |
|                                                                                |                  | Hz              | ppm    |             |        |
| 7.20                                                                           | -30              | 53              | 0.0637 | 2.5         | Pass   |
|                                                                                | -20              | 23              | 0.0275 |             |        |
|                                                                                | -10              | 67              | 0.0797 |             |        |
|                                                                                | 0                | 35              | 0.0418 |             |        |
|                                                                                | 10               | 30              | 0.0362 |             |        |
|                                                                                | 20               | 21              | 0.0248 |             |        |
|                                                                                | 30               | 33              | 0.0393 |             |        |
|                                                                                | 40               | 30              | 0.0356 |             |        |
|                                                                                | 50               | 32              | 0.0384 |             |        |

| Reference Frequency: PCS1900 (GPRS 1 link) Middle channel=661 channel=1880MHz  |                  |                 |        |     |        |
|--------------------------------------------------------------------------------|------------------|-----------------|--------|-----|--------|
| Power supplied (Vdc)                                                           | Temperature (°C) | Frequency error |        |     | Result |
|                                                                                |                  | Hz              | ppm    |     |        |
| 7.20                                                                           | -30              | 55              | 0.0293 | 2.5 | Pass   |
|                                                                                | -20              | 23              | 0.0122 |     |        |
|                                                                                | -10              | 69              | 0.0366 |     |        |
|                                                                                | 0                | 31              | 0.0164 |     |        |
|                                                                                | 10               | 29              | 0.0155 |     |        |
|                                                                                | 20               | 24              | 0.0128 |     |        |
|                                                                                | 30               | 31              | 0.0163 |     |        |
|                                                                                | 40               | 30              | 0.0158 |     |        |
|                                                                                | 50               | 30              | 0.0162 |     |        |
| Reference Frequency: PCS1900 (EGPRS 1 link) Middle channel=661 channel=1880MHz |                  |                 |        |     |        |
| Power supplied (Vdc)                                                           | Temperature (°C) | Frequency error |        |     | Result |
|                                                                                |                  | Hz              | ppm    |     |        |
| 7.20                                                                           | -30              | 55              | 0.0294 | 2.5 | Pass   |
|                                                                                | -20              | 23              | 0.0122 |     |        |
|                                                                                | -10              | 66              | 0.0350 |     |        |
|                                                                                | 0                | 30              | 0.0159 |     |        |
|                                                                                | 10               | 30              | 0.0160 |     |        |
|                                                                                | 20               | 25              | 0.0132 |     |        |
|                                                                                | 30               | 30              | 0.0162 |     |        |
|                                                                                | 40               | 35              | 0.0186 |     |        |
|                                                                                | 50               | 34              | 0.0181 |     |        |

| Reference Frequency: WCDMA Band V Middle channel=4183 channel=836.6MHz   |                  |                 |        |             |        |
|--------------------------------------------------------------------------|------------------|-----------------|--------|-------------|--------|
| Power supplied (Vdc)                                                     | Temperature (°C) | Frequency error |        | Limit (ppm) | Result |
|                                                                          |                  | Hz              | ppm    |             |        |
| 7.20                                                                     | -30              | 56              | 0.0666 | 2.5         | Pass   |
|                                                                          | -20              | 23              | 0.0275 |             |        |
|                                                                          | -10              | 67              | 0.0803 |             |        |
|                                                                          | 0                | 29              | 0.0349 |             |        |
|                                                                          | 10               | 32              | 0.0388 |             |        |
|                                                                          | 20               | 24              | 0.0289 |             |        |
|                                                                          | 30               | 32              | 0.0383 |             |        |
|                                                                          | 40               | 29              | 0.0348 |             |        |
|                                                                          | 50               | 32              | 0.0383 |             |        |
| Reference Frequency: WCDMA Band II Middle channel=9400 channel=1880.0MHz |                  |                 |        |             |        |
| Power supplied (Vdc)                                                     | Temperature (°C) | Frequency error |        | Limit (ppm) | Result |
|                                                                          |                  | Hz              | ppm    |             |        |
| 7.20                                                                     | -30              | 55              | 0.0292 | 2.5         | Pass   |
|                                                                          | -20              | 23              | 0.0122 |             |        |
|                                                                          | -10              | 67              | 0.0354 |             |        |
|                                                                          | 0                | 32              | 0.0171 |             |        |
|                                                                          | 10               | 30              | 0.0158 |             |        |
|                                                                          | 20               | 20              | 0.0105 |             |        |
|                                                                          | 30               | 33              | 0.0175 |             |        |
|                                                                          | 40               | 30              | 0.0162 |             |        |
|                                                                          | 50               | 32              | 0.0172 |             |        |
| Reference Frequency: WCDMA Band IV Middle channel=1450 channel=1740.0MHz |                  |                 |        |             |        |
| Power supplied (Vdc)                                                     | Temperature (°C) | Frequency error |        | Limit (ppm) | Result |
|                                                                          |                  | Hz              | ppm    |             |        |
| 7.20                                                                     | -30              | 56              | 0.0321 | 2.5         | Pass   |
|                                                                          | -20              | 23              | 0.0132 |             |        |
|                                                                          | -10              | 70              | 0.0403 |             |        |
|                                                                          | 0                | 34              | 0.0197 |             |        |
|                                                                          | 10               | 29              | 0.0166 |             |        |
|                                                                          | 20               | 20              | 0.0114 |             |        |
|                                                                          | 30               | 31              | 0.0176 |             |        |
|                                                                          | 40               | 33              | 0.0189 |             |        |
|                                                                          | 50               | 33              | 0.0189 |             |        |

#### 4.11 Frequency stability V.S. Voltage measurement

|                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|-------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Test Requirement: | FCC Part2.1055(d)(1)(2)                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Test Method:      | FCC Part2.1055(d)(1)(2)                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Limit:            | 2.5ppm                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Test setup:       | <p style="text-align: center;"> </p> <p style="text-align: center;">Note : Measurement setup for testing on Antenna connector</p>                                                                                                                                                                                                                                                                                                                |
| Test procedure:   | <ol style="list-style-type: none"> <li>1. Set chamber temperature to 25°C. Use a variable DC power source to power the EUT and set the voltage to rated voltage.</li> <li>2. Set the spectrum analyzer RBW low enough to obtain the desired frequency resolution and recorded the frequency.</li> <li>3. Reduce the input voltage to specified extreme voltage variation (+/- 15%) and endpoint, record the maximum frequency change.</li> </ol> |
| Test Instruments: | Refer to section 5.0 for details                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Test mode:        | Refer to section 6.1 for details                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Test results:     | Pass                                                                                                                                                                                                                                                                                                                                                                                                                                             |

## Measurement Data

| Reference Frequency: GSM850 (GPRS 1 link) Middle channel=190 channel=836.6MHz  |                      |                 |        |             |        |
|--------------------------------------------------------------------------------|----------------------|-----------------|--------|-------------|--------|
| Temperature (°C)                                                               | Power supplied (Vdc) | Frequency error |        | Limit (ppm) | Result |
|                                                                                |                      | Hz              | ppm    |             |        |
| 25                                                                             | 6.12                 | 55              | 0.0654 | 2.5         | Pass   |
|                                                                                | 7.20                 | 23              | 0.0275 |             |        |
|                                                                                | 8.28                 | 68              | 0.0818 |             |        |
| Reference Frequency: GSM850 (EGPRS 1 link) Middle channel=190 channel=836.6MHz |                      |                 |        |             |        |
| Temperature (°C)                                                               | Power supplied (Vdc) | Frequency error |        | Limit (ppm) | Result |
|                                                                                |                      | Hz              | ppm    |             |        |
| 25                                                                             | 6.12                 | 35              | 0.0414 | 2.5         | Pass   |
|                                                                                | 7.20                 | 31              | 0.0372 |             |        |
|                                                                                | 8.28                 | 20              | 0.0238 |             |        |
| Reference Frequency: PCS1900 (GPRS 1 link) Middle channel=661 channel=1880MHz  |                      |                 |        |             |        |
| Temperature (°C)                                                               | Power supplied (Vdc) | Frequency error |        | Limit (ppm) | Result |
|                                                                                |                      | Hz              | ppm    |             |        |
| 25                                                                             | 6.12                 | 21              | 0.0113 | 2.5         | Pass   |
|                                                                                | 7.20                 | 30              | 0.0159 |             |        |
|                                                                                | 8.28                 | 31              | 0.0164 |             |        |
| Reference Frequency: PCS1900 (EGPRS 1 link) Middle channel=661 channel=1880MHz |                      |                 |        |             |        |
| Temperature (°C)                                                               | Power supplied (Vdc) | Frequency error |        | Limit (ppm) | Result |
|                                                                                |                      | Hz              | ppm    |             |        |
| 25                                                                             | 6.12                 | 58              | 0.0307 | 2.5         | Pass   |
|                                                                                | 7.20                 | 23              | 0.0122 |             |        |
|                                                                                | 8.28                 | 67              | 0.0356 |             |        |

| Reference Frequency: WCDMA Band V Middle channel=4183 channel=836.6MHz   |                      |                 |        |             |        |
|--------------------------------------------------------------------------|----------------------|-----------------|--------|-------------|--------|
| Temperature (°C)                                                         | Power supplied (Vdc) | Frequency error |        | Limit (ppm) | Result |
|                                                                          |                      | Hz              | ppm    |             |        |
| 25                                                                       | 6.12                 | 34              | 0.0411 | 2.5         | Pass   |
|                                                                          | 7.20                 | 21              | 0.0250 |             |        |
|                                                                          | 8.28                 | 22              | 0.0262 |             |        |
| Reference Frequency: WCDMA Band II Middle channel=940 channel=1880.0MHz  |                      |                 |        |             |        |
| Temperature (°C)                                                         | Power supplied (Vdc) | Frequency error |        | Limit (ppm) | Result |
|                                                                          |                      | Hz              | ppm    |             |        |
| 25                                                                       | 6.12                 | 57              | 0.0303 | 2.5         | Pass   |
|                                                                          | 7.20                 | 23              | 0.0122 |             |        |
|                                                                          | 8.28                 | 66              | 0.0351 |             |        |
| Reference Frequency: WCDMA Band IV Middle channel=1450 channel=1740.0MHz |                      |                 |        |             |        |
| Temperature (°C)                                                         | Power supplied (Vdc) | Frequency error |        | Limit (ppm) | Result |
|                                                                          |                      | Hz              | ppm    |             |        |
| 25                                                                       | 6.12                 | 32              | 0.0186 | 2.5         | Pass   |
|                                                                          | 7.20                 | 20              | 0.0114 |             |        |
|                                                                          | 8.28                 | 29              | 0.0169 |             |        |

-----End-----