



# FCC RF Test Report

APPLICANT : ZTE CORPORATION  
EQUIPMENT : CDMA 1X-EVDO Digital Mobile Phone  
BRAND NAME : ZTE  
MODEL NAME : Z750C  
MARKETING NAME : Martin  
FCC ID : Q78-Z750C  
STANDARD : FCC 47 CFR Part 2, 22(H), 24(E)  
CLASSIFICATION : PCS Licensed Transmitter Held to Ear (PCE)

The product was received on Mar. 21, 2013 and completely tested on Apr. 03, 2013. We, SPORTON INTERNATIONAL (KUNSHAN) INC., would like to declare that the tested sample has been evaluated in accordance with the procedures given in ANSI / TIA / EIA-603-C-2004 and shown compliance with the applicable technical standards.

The test results in this report apply exclusively to the tested model / sample. Without written approval of SPORTON INTERNATIONAL (KUNSHAN) INC., the test report shall not be reproduced except in full.

Reviewed by:

Jones Tsai / Manager



**SPORTON INTERNATIONAL (KUNSHAN) INC.**  
**No. 3-2, PingXiang Road, Kunshan, Jiangsu Province, P.R.C.**



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## SUMMARY OF TEST RESULT

| Report Section | FCC Rule                            | Description                                     | Limit                               | Result | Remark                                     |
|----------------|-------------------------------------|---|-------------------------------------|--------|--|
| 3.1            | §2.1046                             | Conducted Output Power                          | N/A                                 | PASS   | -  |
| 3.2            | §24.232(d)                          | Peak-to-Average Ratio                           | < 13 dB                             | PASS   | -  |
| 3.3            | §22.913(a)(2)                       | Effective Radiated Power                        | < 7 Watts                           | PASS   | -  |
| 3.3            | §24.232(c)                          | Equivalent Isotropic Radiated Power             | < 2 Watts                           | PASS   | -  |
| 3.4            | §2.1049<br>§22.917(b)<br>§24.238(b) | 99% Occupied Bandwidth and 26dB Bandwidth       | N/A                                 | PASS   | -  |
| 3.5            | §2.1051<br>§22.917(a)<br>§24.238(a) | Band Edge Measurement                           | < 43+10log <sub>10</sub> (P[Watts]) | PASS   | -  |
| 3.6            | §2.1051<br>§22.917(a)<br>§24.238(a) | Conducted Emission                              | < 43+10log <sub>10</sub> (P[Watts]) | PASS   | -  |
| 3.7            | §2.1053<br>§22.917(a)<br>§24.238(a) | Field Strength of Spurious Radiated             | < 43+10log <sub>10</sub> (P[Watts]) | PASS   | Under limit<br>32.56 dB at<br>5640.000 MHz |
| 3.8            | §2.1055<br>§22.355<br>§24.235       | Frequency Stability for Temperature and Voltage | < 2.5 ppm                           | PASS   | -  |



# 1 General Description

## 1.1 Applicant

**ZTE CORPORATION**

ZTE Plaza, Keji Road South, Hi-Tech Industrial Park, Nanshan District, Shenzhen, Guangdong, 518057, P.R.China

## 1.2 Manufacturer

**ZTE CORPORATION**

ZTE Plaza, Keji Road South, Hi-Tech Industrial Park, Nanshan District, Shenzhen, Guangdong, 518057, P.R.China

## 1.3 Feature of Equipment Under Test

| Product Feature                 |   |
|---------------------------------|---|
| Equipment                       | CDMA 1X-EVDO Digital Mobile Phone                       |
| Brand Name                      | ZTE   |
| Model Name                      | Z750C   |
| Marketing Name                  | Martin  |
| FCC ID                          | Q78-Z750C   |
| EUT supports Radios application | CDMA/EV-DO/WLAN 11bgn /Bluetooth EDR /Bluetooth4.0 - LE |
| HW Version                      | Z750CHWV1.0   |
| SW Version                      | TF_US_Z750CV1.0.0B01                                    |
| EUT Stage                       | Identical Prototype                                     |

Remark: The above EUT's information was declared by manufacturer. Please refer to the specifications or user's manual for more detailed description.

## 1.4 Product Specification of Equipment Under Test

| Product Specification subjective to this standard |  |
|---|--|
| Tx Frequency                                      | CDMA2000 BC0: 824.70 MHz ~ 848.31 MHz<br>CDMA2000 BC1: 1851.25 MHz ~ 1908.75 MHz |
| Rx Frequency                                      | CDMA2000 BC0: 869.70 MHz ~ 893.31 MHz<br>CDMA2000 BC1: 1931.25 MHz ~ 1988.75 MHz |
| Maximum Output Power to Antenna                   | CDMA2000 BC0: 23.56 dBm<br>CDMA2000 BC1: 23.51 dBm                               |
| Antenna Type                                      | PIFA Antenna   |
| Type of Modulation                                | CDMA2000 : QPSK<br>CDMA2000 1xEV-DO : 8PSK                                       |

### 1.5 Maximum ERP/EIRP Power, Frequency Tolerance, and Emission Designator

| FCC Rule | System             | Type of Modulation | Maximum ERP/EIRP (W) | Frequency Tolerance (% , Hz, ppm) | Emission Designator |
|----------|--------------------|--------------------|----------------------|-----------------------------------|---------------------|
| Part 22  | CDMA2000 BC0 1xRTT | QPSK               | 0.1036               | 0.04 ppm                          | 1M29F9W             |
| Part 24  | CDMA2000 BC1 1xRTT | 8PSK               | 0.2024               | 0.02 ppm                          | 1M29F9W             |

### 1.6 Testing Site

|                    |  |           |                         |
|--------------------|--|-----------|-------------------------|
| Test Site          | SPORTON INTERNATIONAL (KUNSHAN) INC.   |           |                         |
| Test Site Location | No. 3-2, PingXiang Road, Kunshan, Jiangsu Province, P.R.C.<br>TEL: +86-0512-5790-0158<br>FAX: +86-0512-5790-0958 |           |                         |
| Test Site No.      | Sporton Site No.   |           | FCC/IC Registration No. |
|                    | TH01-KS  | 03CH01-KS | 149928/4086E-1          |

### 1.7 Applied Standards

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

- Preliminary Guidance for Receiving Applications for Certification of 3G Device. May 9, 2006.
- FCC 47 CFR Part 2, 22(H), 24(E)
- ANSI / TIA / EIA-603-C-2004
- FCC KDB 971168 D01 Power Meas. License Digital Systems v01

**Remark:**

1. All test items were verified and recorded according to the standards and without any deviation during the test.
2. This EUT has also been tested and complied with the requirements of FCC Part 15, Subpart B, recorded in a separate test report.

## 2 Test Configuration of Equipment Under Test

### 2.1 Test Mode

During all testing, EUT is in link mode with base station emulator at maximum power level. The spurious emission measurements were carried out in semi-anechoic chamber with 3-meter test range, and EUT is rotated on three test planes to find out the worst emission.

Frequency range investigated for radiated emission is as follows:

1. 30 MHz to 9000 MHz for CDMA2000 BC0.
2. 30 MHz to 19000 MHz for CDMA2000 BC1.

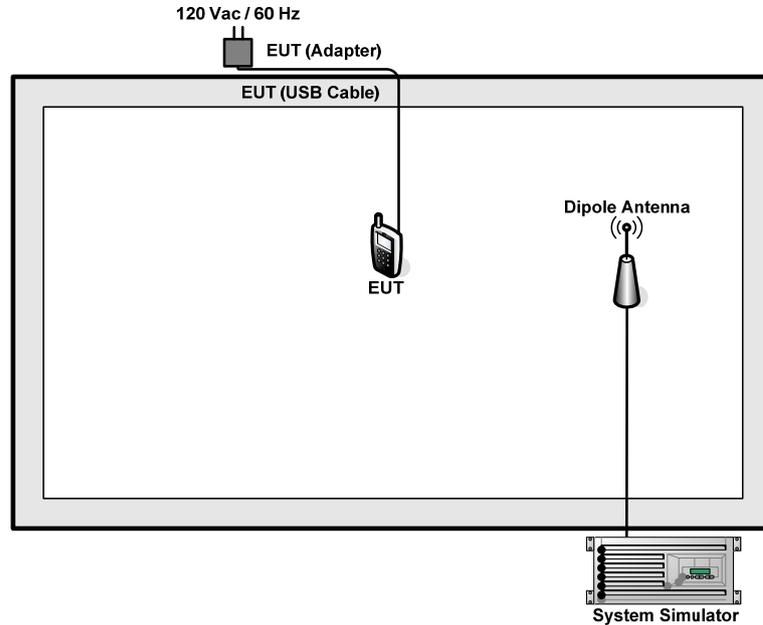
| Test Modes   |                   |                   |
|--------------|-------------------|-------------------|
| Band         | Radiated TCs      | Conducted TCs     |
| CDMA2000 BC0 | ■ 1xRTT Link Mode | ■ 1xRTT Link Mode |
| CDMA2000 BC1 | ■ 1xRTT Link Mode | ■ 1xRTT Link Mode |

**Note:** The maximum RF output power levels are 1xRTT RC3+SO55 mode for CDMA2000 BC0 on QPSK Link and 1xRTT RC3+SO55 mode for CDMA2000 BC1 on QPSK Link; only these modes were used for all tests.

The conducted power table is as follows:

| Band                    | Conducted Power (*Unit: dBm) |        |        |              |       |         |
|-------------------------|------------------------------|--------|--------|--------------|-------|---------|
|                         | CDMA2000 BC0                 |        |        | CDMA2000 BC1 |       |         |
| Channel                 | 1013                         | 384    | 777    | 25           | 600   | 1175    |
| Frequency               | 824.7                        | 836.52 | 848.31 | 1851.25      | 1880  | 1908.75 |
| 1xRTT RC1+SO55          | 23.53                        | 23.47  | 23.41  | 23.35        | 23.50 | 23.35   |
| 1xRTT RC3+SO55          | 23.56                        | 23.49  | 23.42  | 23.37        | 23.51 | 23.37   |
| 1xRTT RC3+SO32(+ F-SCH) | 23.55                        | 23.42  | 23.35  | 23.34        | 23.50 | 23.24   |
| 1xRTT RC3+SO32(+SCH)    | 23.51                        | 23.41  | 23.34  | 23.27        | 23.47 | 23.22   |
| 1xEV-DO RTAP 153.6K     | 23.41                        | 23.35  | 23.33  | 23.27        | 23.46 | 23.22   |
| 1xEV-DO RETAP 4096K     | 23.40                        | 23.35  | 23.32  | 23.26        | 23.50 | 23.23   |

## 2.2 Connection Diagram of Test System



## 2.3 Support Unit used in test configuration and system

| Item | Equipment        | Trade Name | Model No. | FCC ID | Data Cable | Power Cord        |
|------|------------------|------------|-----------|--------|------------|-------------------|
| 1.   | System Simulator | R&S        | CMU 200   | N/A    | N/A        | Unshielded, 1.8 m |
| 2.   | DC Power Supply  | GWINSTEK   | GPS-3030D | N/A    | N/A        | Unshielded, 1.8 m |

## 2.4 Measurement Results Explanation Example

For all conducted test items:

The offset level is set in the spectrum analyzer to compensate the RF cable loss and attenuator factor between EUT conducted output port and spectrum analyzer. With the offset compensation, the spectrum analyzer reading level is exactly the EUT RF output level.

The spectrum analyzer offset is derived from RF cable loss and attenuator factor.

*Offset = RF cable loss + attenuator factor.*

Following shows an offset computation example with cable loss 4.2 dB and 10dB attenuator.

Example :

$$\begin{aligned} \text{Offset(dB)} &= \text{RF cable loss(dB)} + \text{attenuator factor(dB)}. \\ &= 4.2 + 10 = 14.2 \text{ (dB)} \end{aligned}$$

### 3 Test Result

#### 3.1 Conducted Output Power Measurement

##### 3.1.1 Description of the Conducted Output Power Measurement

A base station simulator was used to establish communication with the EUT. Its parameters were set to transmit the maximum power on the EUT. The measured power in the radio frequency on the transmitter output terminals shall be reported.

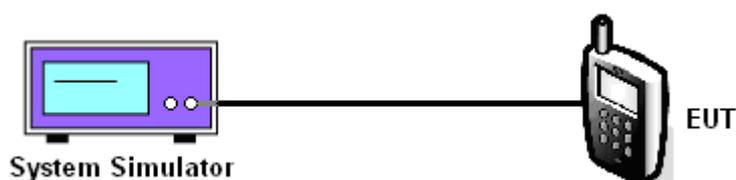
##### 3.1.2 Measuring Instruments

See list of measuring instruments of this test report.

##### 3.1.3 Test Procedures

1. The transmitter output port was connected to base station.
2. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.
3. Set EUT at maximum power through base station.
4. Select lowest, middle, and highest channels for each band and different modulation.
5. Measure the maximum burst average power for GSM and maximum average power for other modulation signal.

##### 3.1.4 Test Setup



3.1.5 Test Result of Conducted Output Power

| CDMA2000 BC0            |                 |           |            |
|-------------------------|-----------------|-----------|------------|
| Test Mode               | CDMA 2000 1xRTT |           |            |
| Test Status             | RC3+SO55        |           |            |
| Channel                 | 1013 (Low)      | 384 (Mid) | 777 (High) |
| Frequency (MHz)         | 824.7           | 836.52    | 848.31     |
| Conducted Power (dBm)   | 23.56           | 23.49     | 23.42      |
| Conducted Power (Watts) | 0.23            | 0.22      | 0.22       |

| CDMA2000 BC1            |                 |           |             |
|-------------------------|-----------------|-----------|-------------|
| Test Mode               | CDMA 2000 1xRTT |           |             |
| Test Status             | RC3+SO55        |           |             |
| Channel                 | 25 (Low)        | 600 (Mid) | 1175 (High) |
| Frequency (MHz)         | 1851.25         | 1880      | 1908.75     |
| Conducted Power (dBm)   | 23.37           | 23.51     | 23.37       |
| Conducted Power (Watts) | 0.22            | 0.22      | 0.22        |

Note: maximum average power for CDMA2000.

## 3.2 Peak-to-Average Ratio

### 3.2.1 Description of the PAR Measurement

The peak-to-average ratio (PAR) of the transmission may not exceed 13 dB.

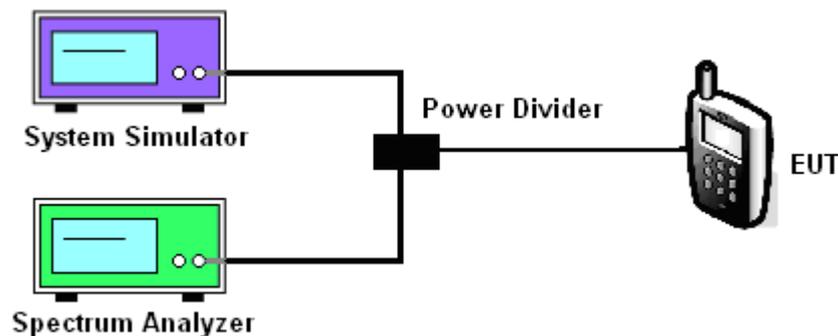
### 3.2.2 Measuring Instruments

See list of measuring instruments of this test report.

### 3.2.3 Test Procedures

1. The EUT was connected to Spectrum Analyzer and System Simulator via power divider.
2. For GSM/EGPRS operating modes:
  - a. Set EUT in maximum power output.
  - b. Set the RBW = 1MHz, VBW = 3MHz, Peak detector in spectrum analyzer for first trace.
  - c. Set the RBW = 1MHz, VBW = 3MHz, RMS detector in spectrum analyzer for second trace.
  - d. The wanted burst signal is triggered by spectrum analyzer, and measured respectively the peak level and Mean level without burst-off time, after system simulator synchronized with the spectrum analyzer.
3. For UMTS operating modes:
  - a. Set the CCDF (Complementary Cumulative Distribution Function) option in spectrum analyzer.
  - b. The highest RF powers were measured and recorded the maximum PAPR level associated with a probability of 0.1 %.
4. Record the deviation as Peak to Average Ratio.

### 3.2.4 Test Setup





### 3.2.5 Test Result of Peak-to-Average Ratio

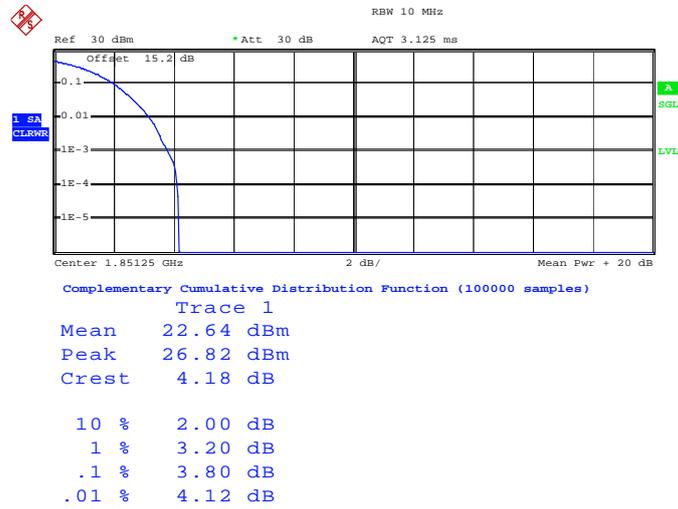
| CDMA2000 BC1               |                 |           |             |
|----------------------------|-----------------|-----------|-------------|
| Modes                      | CDMA 2000 1xRTT |           |             |
| Channel                    | 25 (Low)        | 600 (Mid) | 1175 (High) |
| Frequency (MHz)            | 1851.25         | 1880      | 1908.75     |
| Peak-to-Average Ratio (dB) | 3.80            | 4.16      | 3.76        |



3.2.6 Test Result (Plots) of Peak-to-Average Ratio

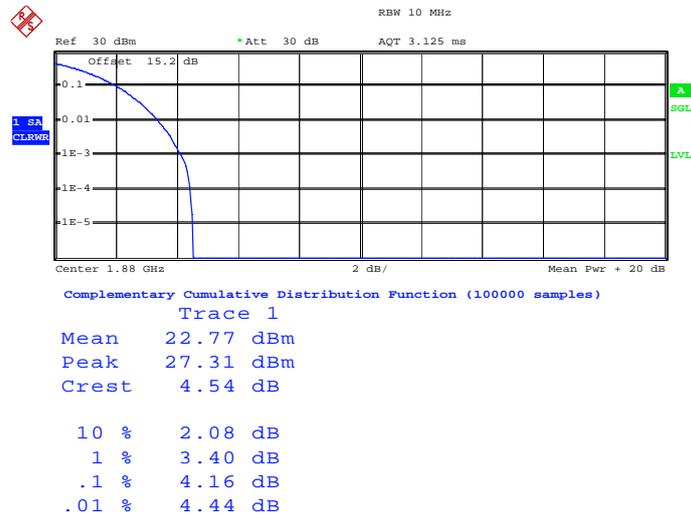
|        |              |             |            |
|--------|--------------|-------------|------------|
| Band : | CDMA2000 BC1 | Test Mode : | 1xRTT Link |
|--------|--------------|-------------|------------|

Peak-to-Average Ratio on Channel 25 (1851.25 MHz)



Date: 27.MAR.2013 16:25:19

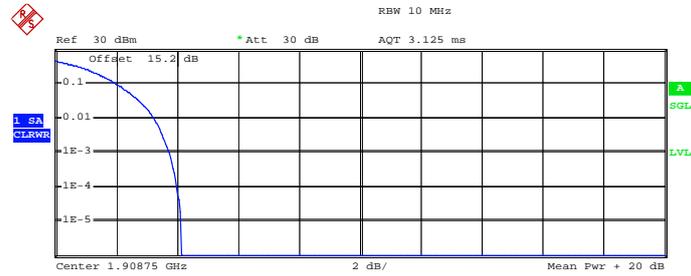
Peak-to-Average Ratio on Channel 600 (1880 MHz)



Date: 27.MAR.2013 16:26:08



Peak-to-Average Ratio on Channel 1175 (1908.75 MHz)



Complementary Cumulative Distribution Function (100000 samples)

Trace 1

Mean    22.60 dBm  
Peak    26.75 dBm  
Crest    4.15 dB

10 %    2.04 dB  
1 %    3.24 dB  
.1 %    3.76 dB  
.01 %    4.00 dB

Date: 27.MAR.2013 16:25:43

### 3.3 Effective Radiated Power and Effective Isotropic Radiated Power Measurement

#### 3.3.1 Description of the ERP/EIRP Measurement

The substitution method, in ANSI / TIA / EIA-603-C-2004, was used for ERP/EIRP measurement, and the spectrum analyzer configuration follows KDB 971168 D01 Power Meas. License Digital Systems v01. The ERP of mobile transmitters must not exceed 7 Watts and the EIRP of mobile transmitters are limited to 2 Watts.

#### 3.3.2 Measuring Instruments

See list of measuring instruments of this test report.

#### 3.3.3 Test Procedures

1. The EUT was placed on a turntable with 1.5 meter height in a fully anechoic chamber.
2. The EUT was set at 3 meters from the receiving antenna, which was mounted on the antenna tower.
3. GSM operating modes: Set RBW= 1MHz, VBW= 3MHz, RMS detector over burst;  
UMTS operating modes: Set RBW= 100 KHz, VBW= 300 KHz, RMS detector over frame, and use channel power option with bandwidth=5MHz, per section 4.0 of KDB 971168 D01.
4. The table was rotated 360 degrees to determine the position of the highest radiated power.
5. The height of the receiving antenna is adjusted to look for the maximum ERP/EIRP.
6. Taking the record of maximum ERP/EIRP.
7. A dipole antenna was substituted in place of the EUT and was driven by a signal generator.
8. The conducted power at the terminal of the dipole antenna is measured.
9. Repeat step 3 to step 5 to get the maximum ERP/EIRP of the substitution antenna.
10.  $ERP/EIRP = P_s + E_t - E_s + G_s = P_s + R_t - R_s + G_s$

$P_s$  (dBm) : Input power to substitution antenna.

$G_s$  (dBi or dBd) : Substitution antenna Gain.

$E_t = R_t + AF$

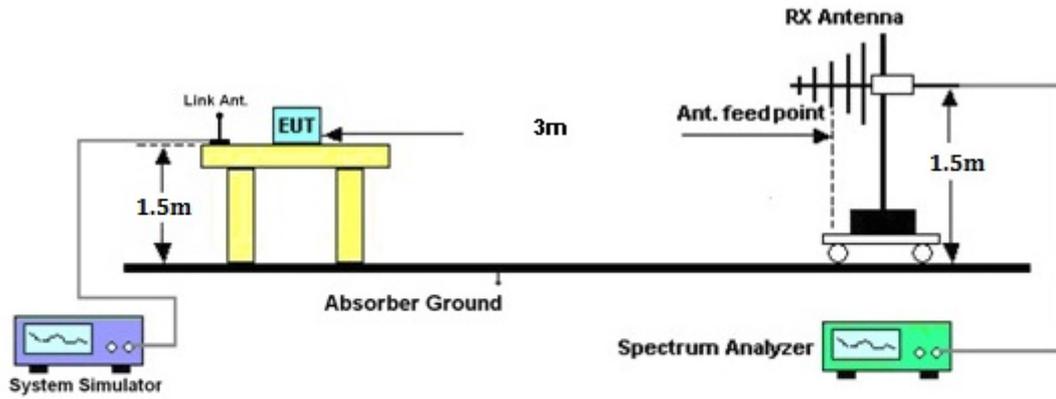
$E_s = R_s + AF$

AF (dB/m) : Receive antenna factor

$R_t$  : The highest received signal in spectrum analyzer for EUT.

$R_s$  : The highest received signal in spectrum analyzer for substitution antenna.

### 3.3.4 Test Setup





3.3.5 Test Result of ERP

| CDMA2000 BC0 1xRTT_RC3+SO55 Radiated Power ERP |          |          |          |          |           |         |
|--|----------|----------|----------|----------|-----------|---------|
| Horizontal Polarization                        |          |          |          |          |           |         |
| Frequency (MHz)                                | Rt (dBm) | Rs (dBm) | Ps (dBm) | Gs (dBd) | ERP (dBm) | ERP (W) |
| 824.70   | -27.64   | -48.12   | 0.00     | -1.08    | 19.40     | 0.0870  |
| 836.52   | -27.20   | -48.28   | 0.00     | -0.93    | 20.15     | 0.1036  |
| 848.31   | -28.13   | -48.35   | 0.00     | -0.76    | 19.46     | 0.0883  |
| Vertical Polarization                          |          |          |          |          |           |         |
| Frequency (MHz)                                | Rt (dBm) | Rs (dBm) | Ps (dBm) | Gs (dBd) | ERP (dBm) | ERP (W) |
| 824.70   | -43.01   | -47.97   | 0.00     | -1.08    | 3.88      | 0.0024  |
| 836.52   | -42.42   | -48.01   | 0.00     | -0.93    | 4.66      | 0.0029  |
| 848.31   | -43.50   | -48.05   | 0.00     | -0.76    | 3.79      | 0.0024  |

3.3.6 Test Result of EIRP

| CDMA2000 BC1 1xRTT_RC3+SO55 Radiated Power EIRP |          |          |          |          |            |          |
|---|----------|----------|----------|----------|------------|----------|
| Horizontal Polarization                         |          |          |          |          |            |          |
| Frequency (MHz)                                 | Rt (dBm) | Rs (dBm) | Ps (dBm) | Gs (dBi) | EIRP (dBm) | EIRP (W) |
| 1851.25   | -31.28   | -51.88   | 0.00     | 1.96     | 22.56      | 0.1802   |
| 1880.00   | -32.26   | -52.99   | 0.00     | 2.00     | 22.73      | 0.1876   |
| 1908.75   | -34.27   | -54.28   | 0.00     | 1.98     | 21.99      | 0.1580   |
| Vertical Polarization                           |          |          |          |          |            |          |
| Frequency (MHz)                                 | Rt (dBm) | Rs (dBm) | Ps (dBm) | Gs (dBi) | EIRP (dBm) | EIRP (W) |
| 1851.25   | -31.42   | -52.13   | 0.00     | 1.96     | 22.67      | 0.1851   |
| 1880.00   | -32.11   | -53.17   | 0.00     | 2.00     | 23.06      | 0.2024   |
| 1908.75   | -33.56   | -54.13   | 0.00     | 1.98     | 22.55      | 0.1798   |

## 3.4 99% Occupied Bandwidth and 26dB Bandwidth Measurement

### 3.4.1 Description of 99% Occupied Bandwidth and 26dB Bandwidth Measurement

The 99% occupied bandwidth is the width of a frequency band such that, below the lower and above the upper frequency limits, the mean powers emitted are each equal to a specified percentage 0.5% of the total mean transmitted power.

The emission bandwidth is defined as the width of the signal between two points, located at the 2 sides of the carrier frequency, outside of which all emissions are attenuated at least 26 dB below the transmitter power.

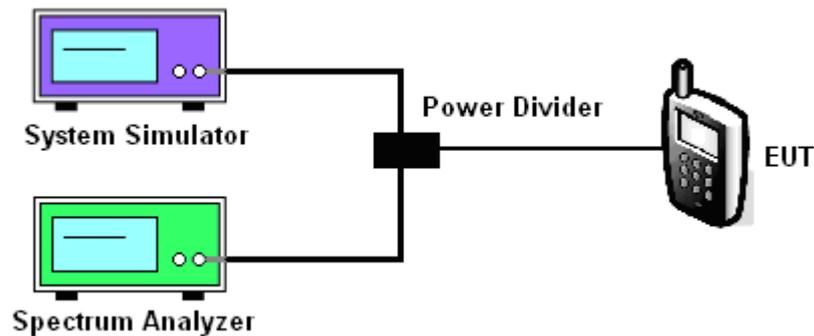
### 3.4.2 Measuring Instruments

See list of measuring instruments of this test report.

### 3.4.3 Test Procedures

1. The EUT was connected to Spectrum Analyzer and Base Station via power divider.
2. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.
3. The 99% occupied bandwidth and 26 dB bandwidth of the middle channel for the highest RF powers were measured.

### 3.4.4 Test Setup





3.4.5 Test Result of Occupied Bandwidth and 26dB Bandwidth

| CDMA2000 BC0    |                 |           |            |
|-----------------|-----------------|-----------|------------|
| Test Mode       | CDMA 2000 1xRTT |           |            |
| Test Status     | RC3+SO55        |           |            |
| Channel         | 1013 (Low)      | 384 (Mid) | 777 (High) |
| Frequency (MHz) | 824.70          | 836.52    | 848.31     |
| 99% OBW (MHz)   | 1.288           | 1.284     | 1.280      |
| 26dB BW (MHz)   | 1.432           | 1.428     | 1.432      |

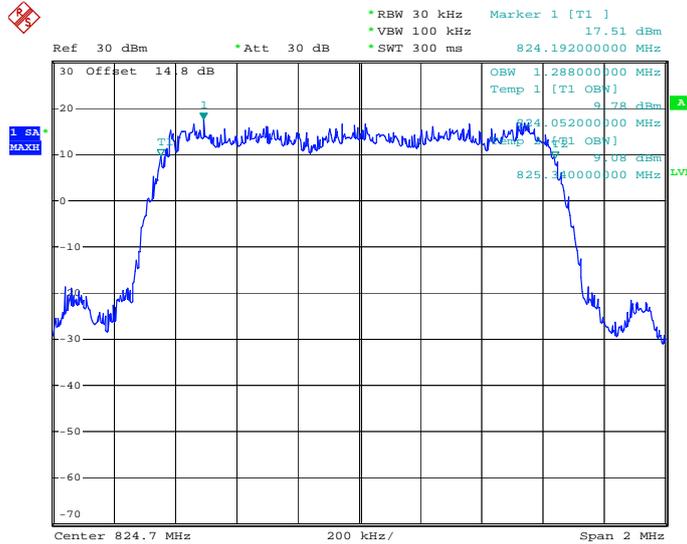
| CDMA2000 BC1    |                 |           |             |
|-----------------|-----------------|-----------|-------------|
| Test Mode       | CDMA 2000 1xRTT |           |             |
| Test Status     | RC3+SO55        |           |             |
| Channel         | 25 (Low)        | 600 (Mid) | 1175 (High) |
| Frequency (MHz) | 1851.25         | 1880.00   | 1908.75     |
| 99% OBW (MHz)   | 1.276           | 1.288     | 1.280       |
| 26dB BW (MHz)   | 1.428           | 1.428     | 1.428       |



### 3.4.6 Test Result (Plots) of Occupied Bandwidth and 26dB Bandwidth

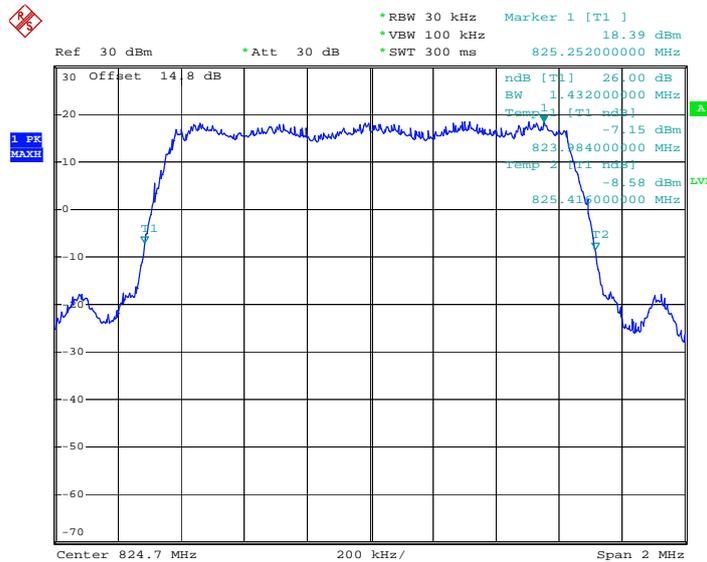
|                     |                            |
|---------------------|----------------------------|
| Band : CDMA2000 BC0 | Test Mode : 1xRTT_RC3+SO55 |
|---------------------|----------------------------|

99% Occupied Bandwidth Plot on Channel 1013 (824.7 MHz)



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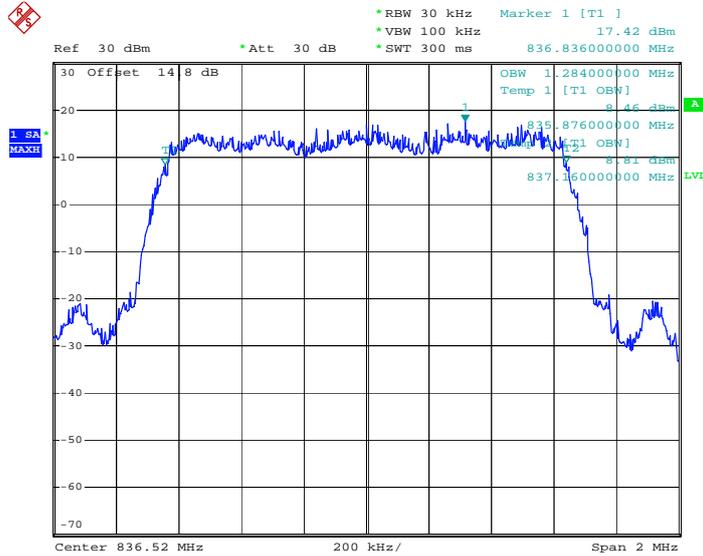
26dB Bandwidth Plot on Channel 1013 (824.7 MHz)



Date: 27.MAR.2013 15:32:38

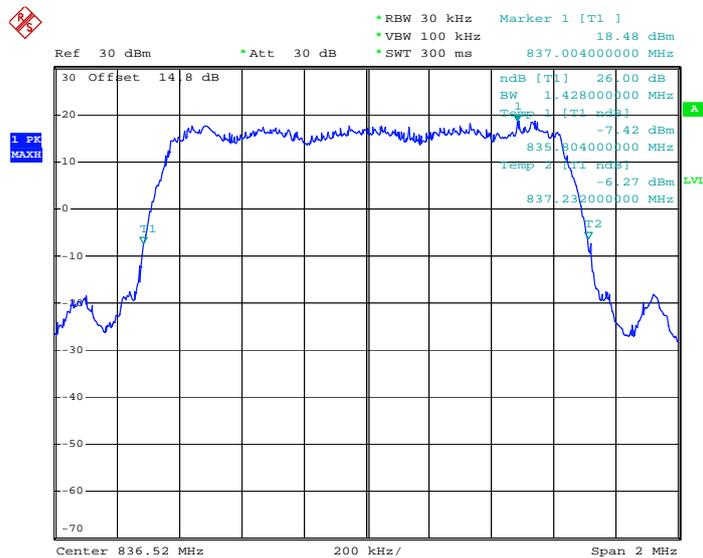


99% Occupied Bandwidth Plot on Channel 384 (836.52 MHz)



Date: 27.MAR.2013 15:37:31

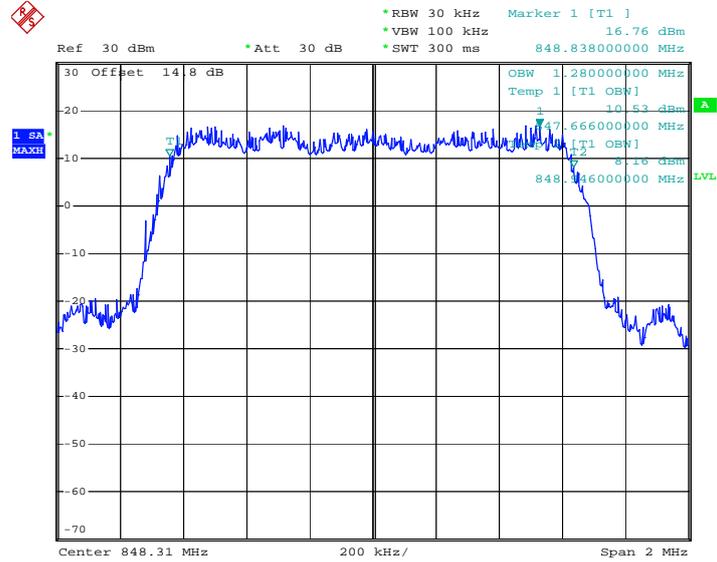
26dB Bandwidth Plot on Channel 384 (836.52 MHz)



Date: 27.MAR.2013 15:31:00

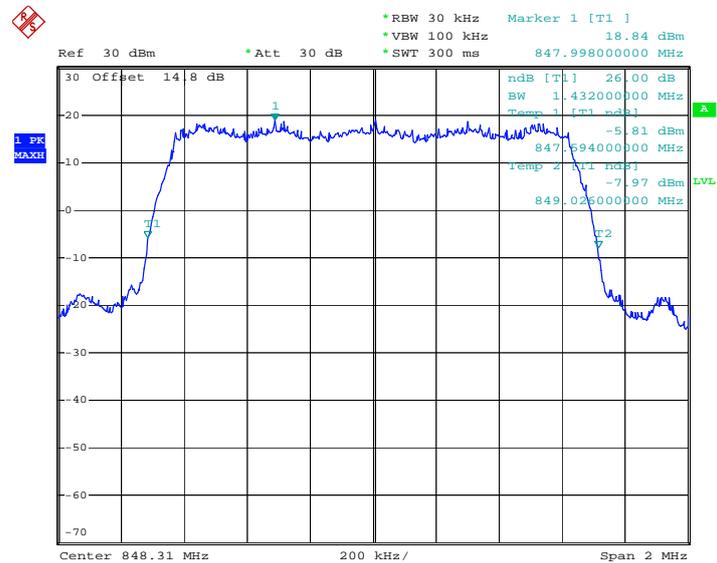


99% Occupied Bandwidth Plot on Channel 777 (848.31 MHz)



Date: 27.MAR.2013 15:38:41

26dB Bandwidth Plot on Channel 777 (848.31 MHz)

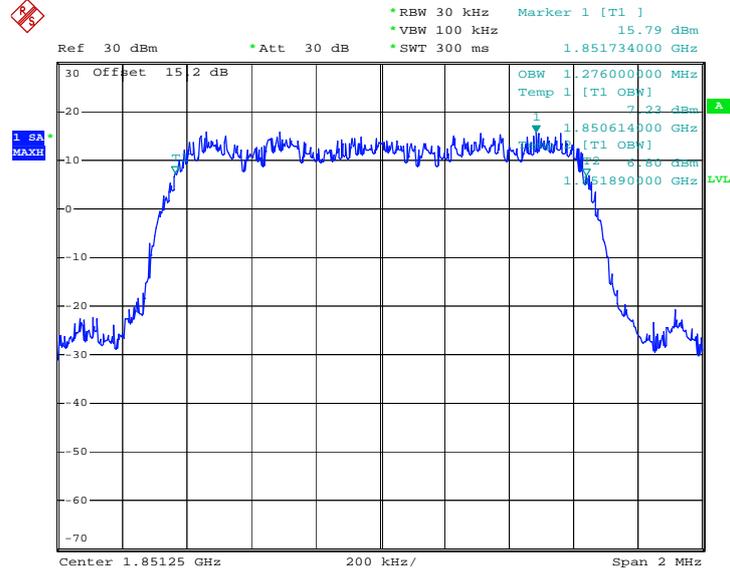


Date: 27.MAR.2013 15:33:08



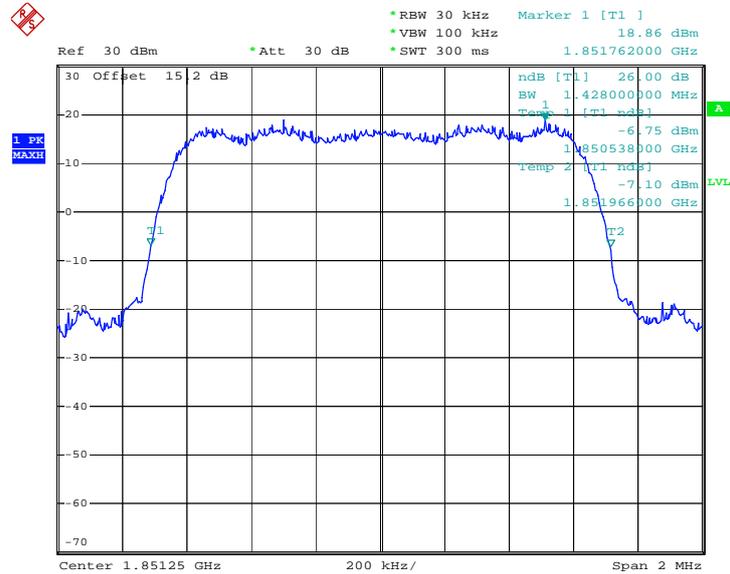
|        |              |             |                |
|--------|--------------|-------------|----------------|
| Band : | CDMA2000 BC1 | Test Mode : | 1xRTT_RC3+SO55 |
|--------|--------------|-------------|----------------|

99% Occupied Bandwidth Plot on Channel 25 (1851.25 MHz)



Date: 27.MAR.2013 16:17:51

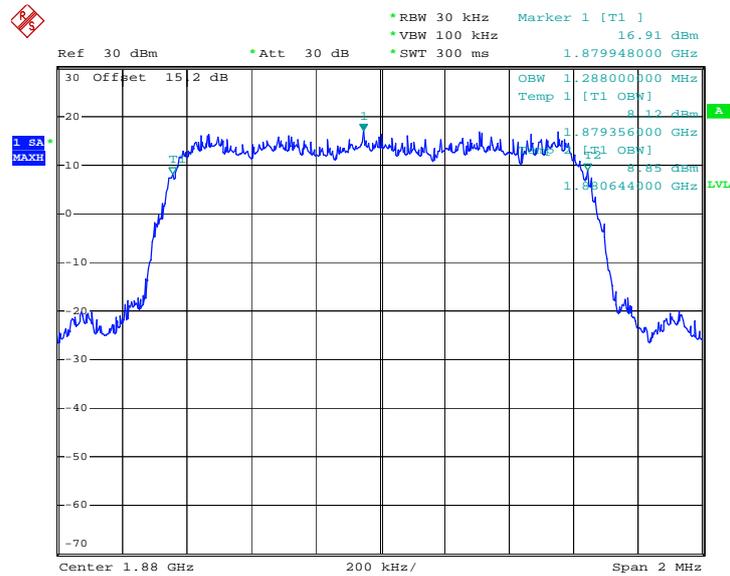
26dB Bandwidth Plot on Channel 25 (1851.25 MHz)



Date: 27.MAR.2013 16:23:43

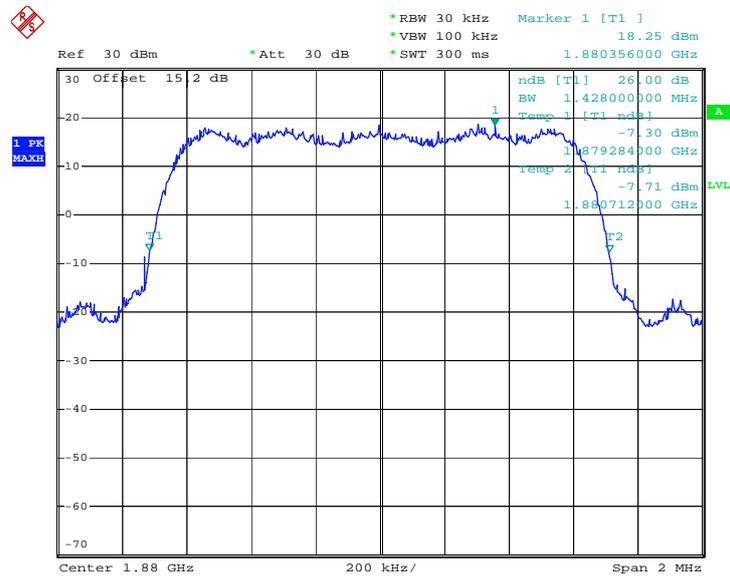


99% Occupied Bandwidth Plot on Channel 600 (1880.0 MHz)



Date: 27.MAR.2013 16:18:36

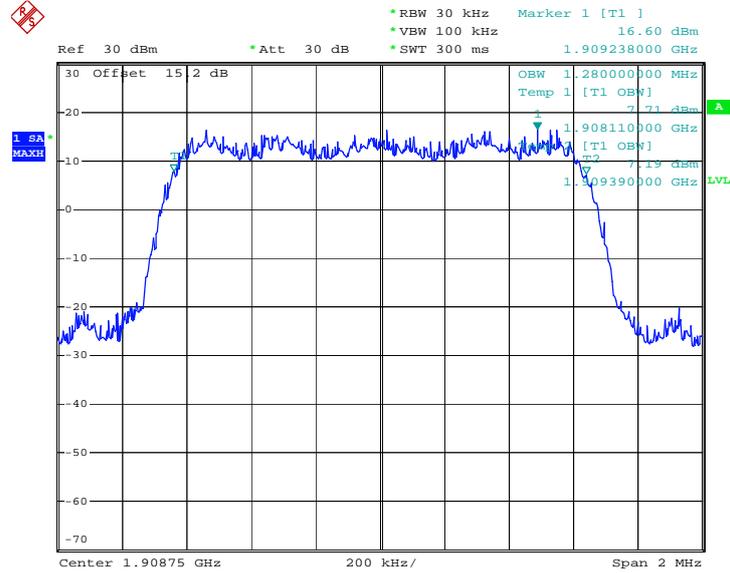
26dB Bandwidth Plot on Channel 600 (1880.0 MHz)



Date: 27.MAR.2013 16:24:39

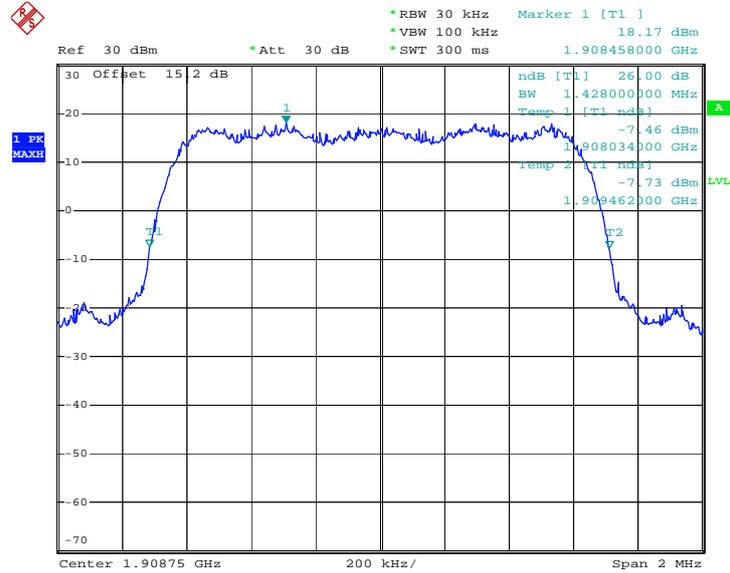


99% Occupied Bandwidth Plot on Channel 1175 (1908.75 MHz)



Date: 27.MAR.2013 16:19:42

26dB Bandwidth Plot on Channel 1175 (1908.75 MHz)



Date: 27.MAR.2013 16:24:12

### 3.5 Band Edge Measurement

#### 3.5.1 Description of Band Edge Measurement

The power of any emission outside of the authorized operating frequency ranges must be lower than the transmitter power (P) by a factor of at least  $43 + 10 \log (P)$  dB.

#### 3.5.2 Measuring Instruments

See list of measuring instruments of this test report.

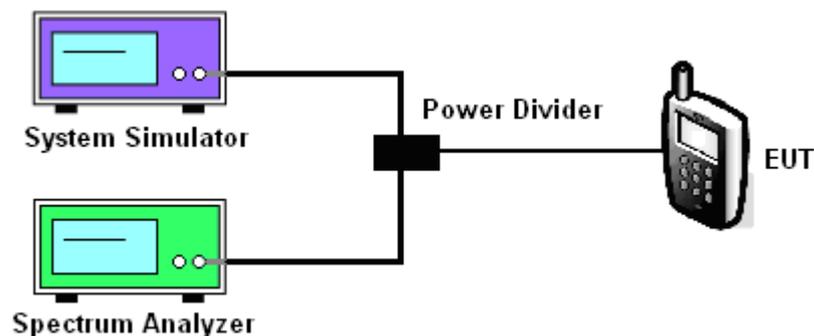
#### 3.5.3 Test Procedures

1. The EUT was connected to Spectrum Analyzer and Base Station via power divider.
2. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.
3. The band edges of low and high channels for the highest RF powers were measured. Setting RBW as roughly  $BW/100$ .
4. The RBW was replaced by 10 kHz, slightly smaller than the value in (3), due to the spectrum analyzer limitation to set the exact value. A worst case correction factor of  $10 \cdot \log (1\% \text{ emission-BW/measurement RBW})$  was compensated.
5. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
6. The limit line is derived from  $43 + 10 \log(P)$  dB below the transmitter power P(Watts)
 
$$= P(W) - [43 + 10 \log(P)] \text{ (dB)}$$

$$= [30 + 10 \log(P)] \text{ (dBm)} - [43 + 10 \log(P)] \text{ (dB)}$$

$$= -13 \text{ dBm.}$$

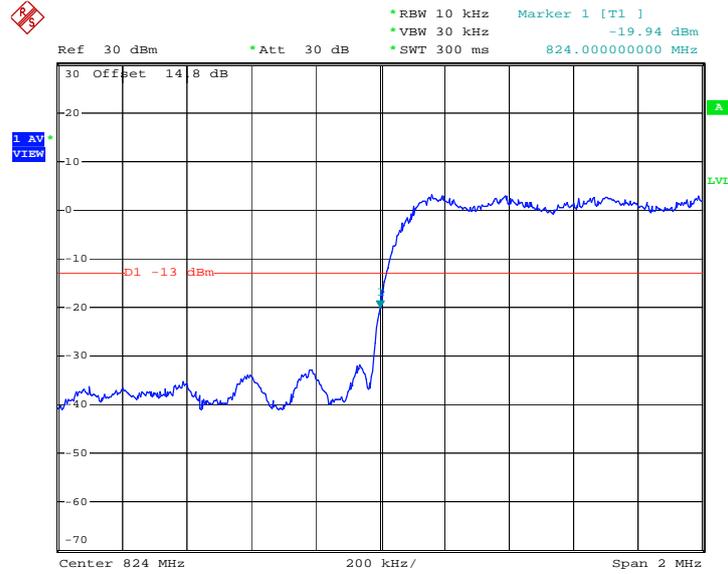
#### 3.5.4 Test Setup



### 3.5.5 Test Result (Plots) of Conducted Band Edge

|                     |              |                          |                |
|---------------------|--------------|--------------------------|----------------|
| Band :              | CDMA2000 BC0 | Test Mode :              | 1xRTT_RC3+SO55 |
| Correction Factor : | 1.56dB       | Maximum 26dB Bandwidth : | 1.432MHz       |
| Band Edge :         | -18.38dBm    | Measurement Value :      | -19.94dBm      |

Lower Band Edge Plot on Channel 1013 (824.7 MHz)



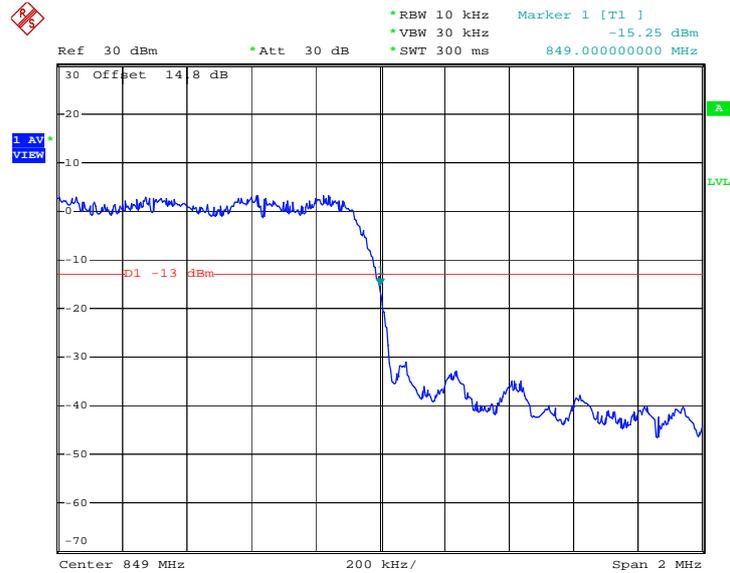
Date: 27.MAR.2013 15:35:19

1. Correction Factor(dB)=  $10\log(1\% \text{ Emission BW/RBW})$
2. Band Edge= Measurement Value + Correction Factor(dB)



|                            |              |                                |                |
|----------------------------|--------------|--------------------------------|----------------|
| <b>Band :</b>              | CDMA2000 BC0 | <b>Test Mode :</b>             | 1xRTT_RC3+SO55 |
| <b>Correction Factor :</b> | 1.56dB       | <b>Maximum 26dB Bandwidth:</b> | 1.432MHz       |
| <b>Band Edge :</b>         | -13.69dBm    | <b>Measurement Value :</b>     | -15.25dBm      |

Higher Band Edge Plot on Channel 777 (848.31 MHz)



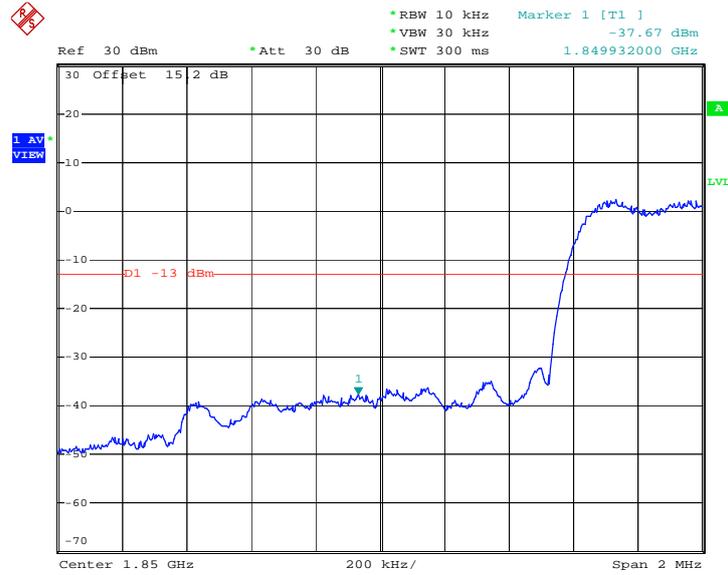
Date: 27.MAR.2013 15:34:50

1. Correction Factor(dB)= 10log(1% Emission BW/RBW)
2. Band Edge= Measurement Value + Correction Factor(dB)



|                            |              |                                |                |
|----------------------------|--------------|--------------------------------|----------------|
| <b>Band :</b>              | CDMA2000 BC1 | <b>Test Mode :</b>             | 1xRTT_RC3+SO55 |
| <b>Correction Factor :</b> | 1.55dB       | <b>Maximum 26dB Bandwidth:</b> | 1.428MHz       |
| <b>Band Edge :</b>         | -36.12dBm    | <b>Measurement Value :</b>     | -37.67dBm      |

Lower Band Edge Plot on Channel 25 (1851.25 MHz)



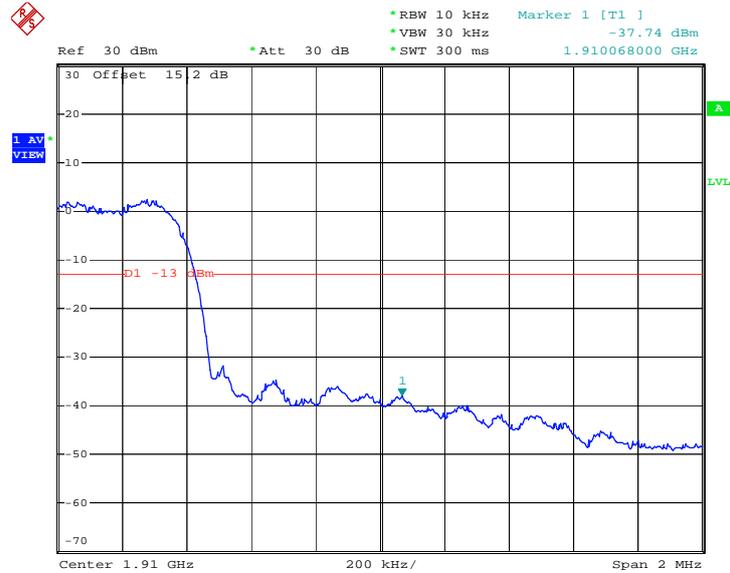
Date: 27.MAR.2013 16:14:30

1. Correction Factor(dB)= 10log(1% Emission BW/RBW)
2. Band Edge= Measurement Value + Correction Factor(dB)



|                            |              |                                |                |
|----------------------------|--------------|--------------------------------|----------------|
| <b>Band :</b>              | CDMA2000 BC1 | <b>Test Mode :</b>             | 1xRTT_RC3+SO55 |
| <b>Correction Factor :</b> | 1.55dB       | <b>Maximum 26dB Bandwidth:</b> | 1.428MHz       |
| <b>Band Edge :</b>         | -36.19dBm    | <b>Measurement Value :</b>     | -37.74dBm      |

Higher Band Edge Plot on Channel 1175 (1908.75 MHz)



Date: 27.MAR.2013 16:14:59

1. Correction Factor(dB)=  $10\log(1\% \text{ Emission BW/RBW})$
2. Band Edge= Measurement Value + Correction Factor(dB)

### 3.6 Conducted Spurious Emission Measurement

#### 3.6.1 Description of Conducted Emission Measurement

The power of any emission outside of the authorized operating frequency ranges must be lower than the transmitter power (P) by a factor of at least  $43 + 10 \log (P)$  dB.

It is measured by means of a calibrated spectrum analyzer and scanned from 30 MHz up to a frequency including its 10<sup>th</sup> harmonic.

#### 3.6.2 Measuring Instruments

See list of measuring instruments of this test report.

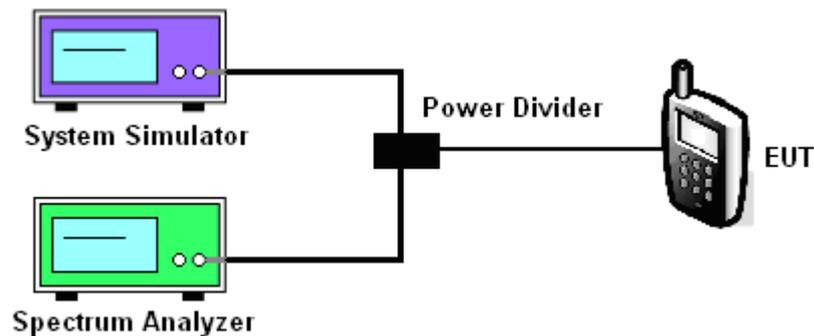
#### 3.6.3 Test Procedures

1. The EUT was connected to spectrum analyzer and base station via power divider.
2. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.
3. The middle channel for the highest RF power within the transmitting frequency was measured.
4. The conducted spurious emission for the whole frequency range was taken.
5. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
6. The limit line is derived from  $43 + 10\log(P)$  dB below the transmitter power P(Watts)
 
$$= P(W) - [43 + 10\log(P)] \text{ (dB)}$$

$$= [30 + 10\log(P)] \text{ (dBm)} - [43 + 10\log(P)] \text{ (dB)}$$

$$= -13\text{dBm}.$$

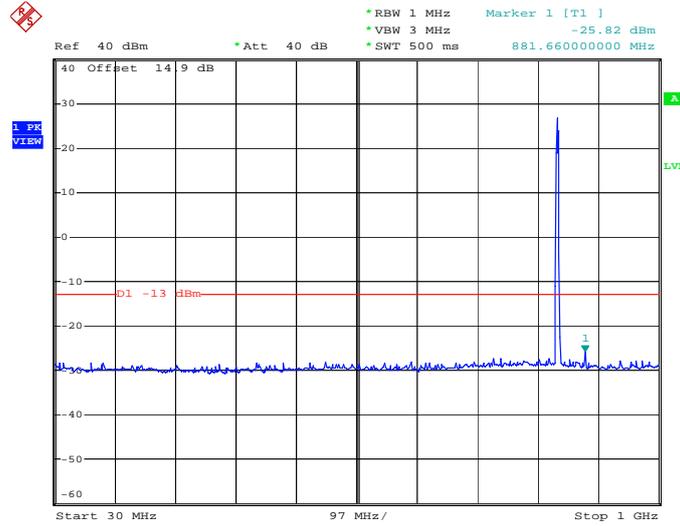
#### 3.6.4 Test Setup



### 3.6.5 Test Result (Plots) of Conducted Spurious Emission

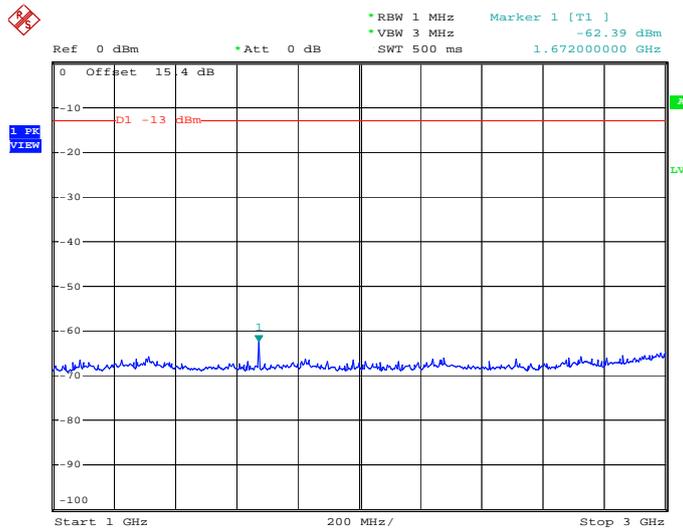
|             |                |             |            |
|-------------|----------------|-------------|------------|
| Band :      | CDMA2000 BC0   | Channel     | 384        |
| Test Mode : | 1xRTT_RC3+SO55 | Frequency : | 836.52 MHz |

Conducted Spurious Emission Plot between 30MHz ~ 1GHz



Date: 27.MAR.2013 15:42:51

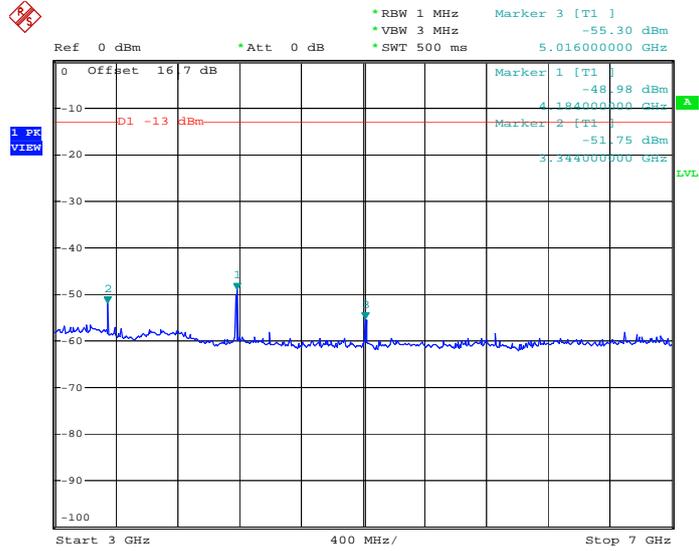
Conducted Spurious Emission Plot between 1GHz ~ 3GHz



Date: 27.MAR.2013 15:43:40

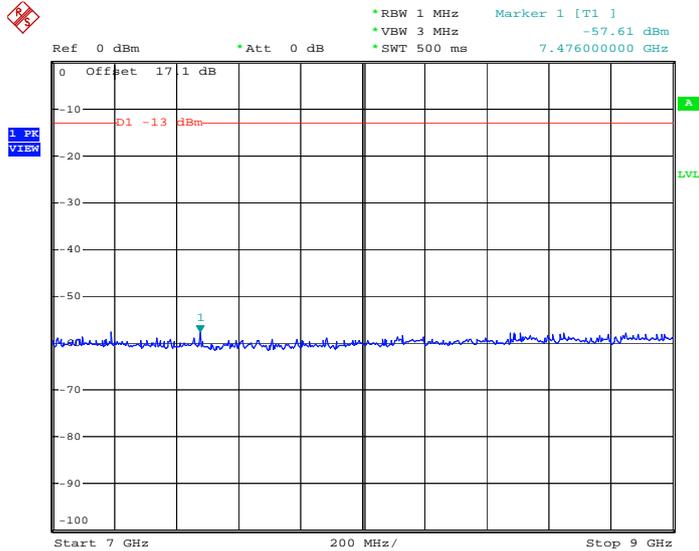


### Conducted Spurious Emission Plot between 3GHz ~ 7GHz



Date: 27.MAR.2013 15:44:51

### Conducted Spurious Emission Plot between 7GHz ~ 9GHz

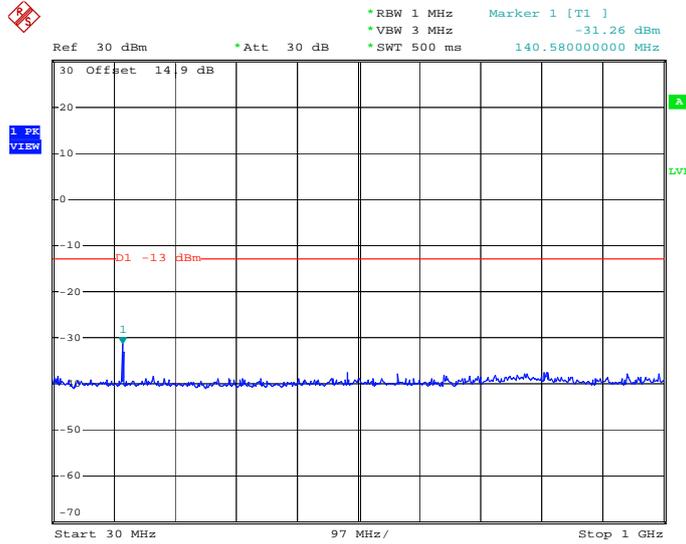


Date: 27.MAR.2013 15:45:25



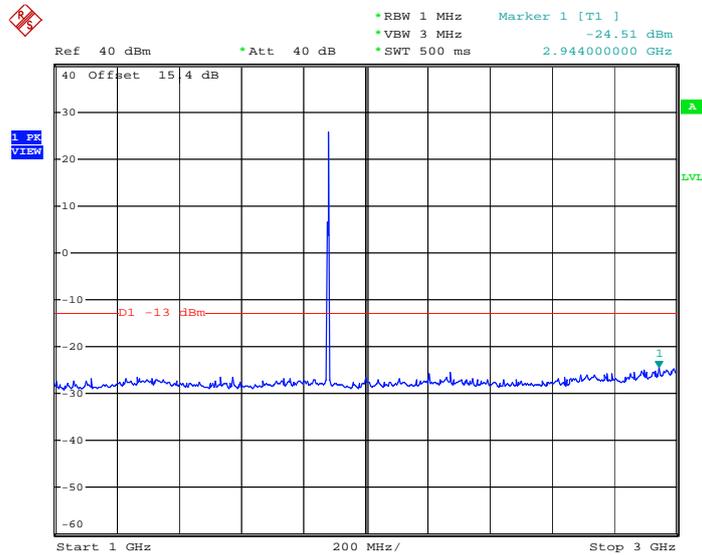
|             |                |             |            |
|-------------|----------------|-------------|------------|
| Band :      | CDMA2000 BC1   | Channel     | 600        |
| Test Mode : | 1xRTT_RC3+SO55 | Frequency : | 1880.0 MHz |

Conducted Spurious Emission Plot between 30MHz ~ 1GHz



Date: 27.MAR.2013 16:26:58

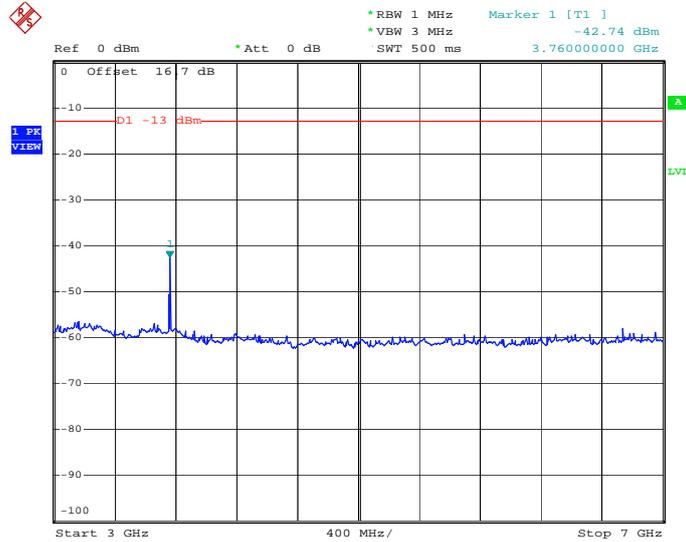
Conducted Spurious Emission Plot between 1GHz ~ 3GHz



Date: 27.MAR.2013 16:27:46

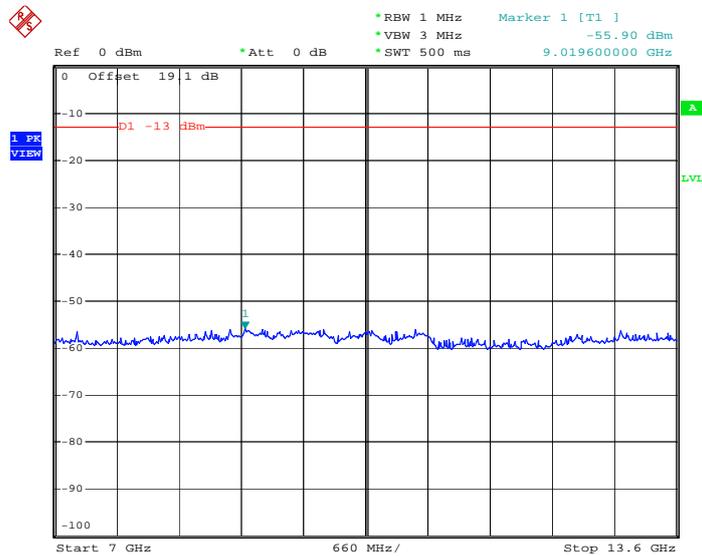


### Conducted Spurious Emission Plot between 3GHz ~ 7GHz



Date: 27.MAR.2013 16:28:21

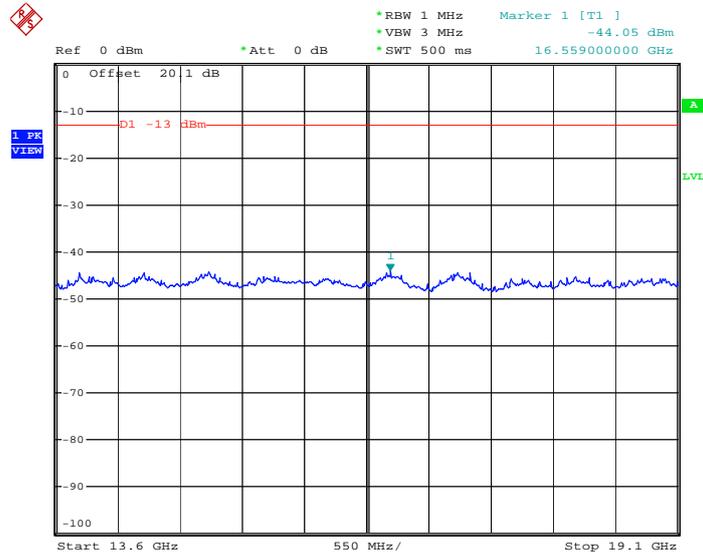
### Conducted Spurious Emission Plot between 7GHz ~ 13.6GHz



Date: 27.MAR.2013 16:28:46



Conducted Spurious Emission Plot between 13.6GHz ~ 19.1GHz



Date: 27.MAR.2013 16:29:58

## 3.7 Field Strength of Spurious Radiation Measurement

### 3.7.1 Description of Field Strength of Spurious Radiated Measurement

The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitter power (P) by a factor of at least  $43+10\log_{10}(P[\text{Watts}])$  dB. The spectrum is scanned from 30 MHz up to a frequency including its 10th harmonic.

### 3.7.2 Measuring Instruments

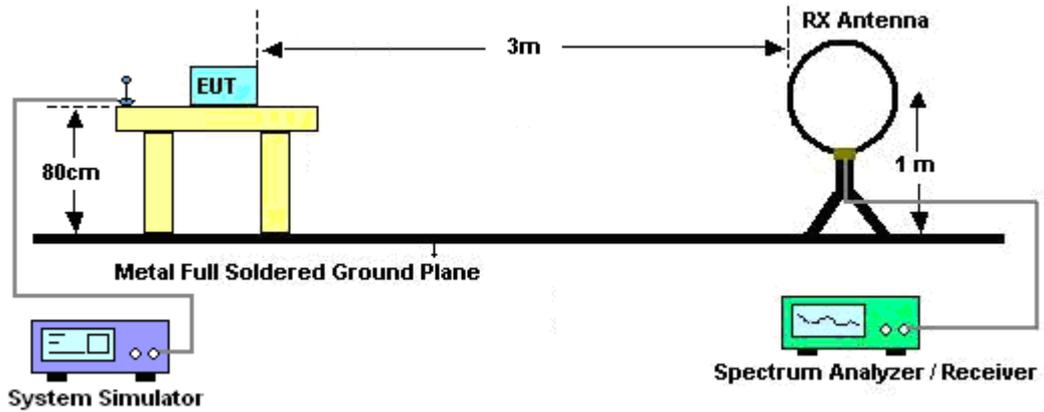
See list of measuring instruments of this test report.

### 3.7.3 Test Procedures

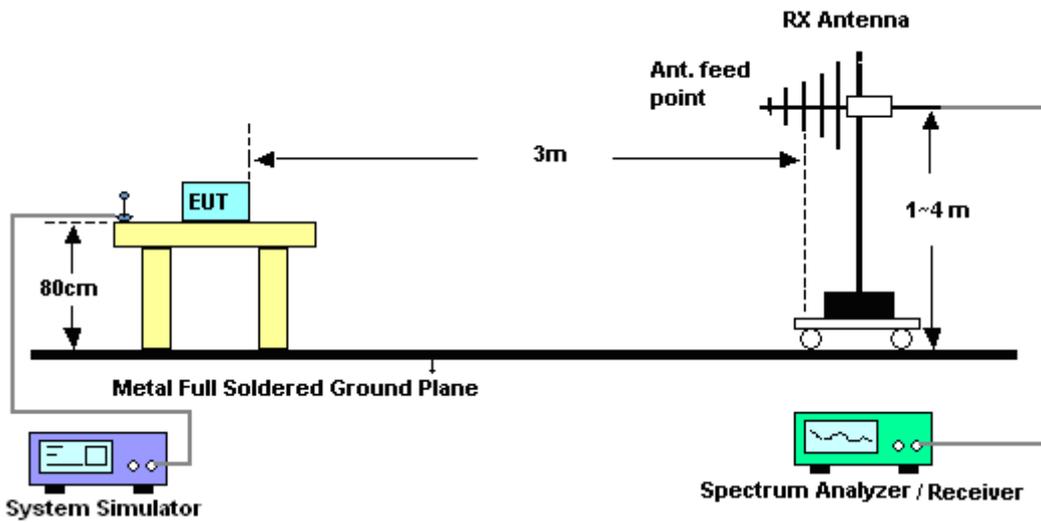
1. The EUT was placed on a rotatable wooden table with 0.8 meter above ground.
2. The EUT was set 3 meters from the receiving antenna, which was mounted on the antenna tower.
3. The table was rotated 360 degrees to determine the position of the highest spurious emission.
4. The height of the receiving antenna is varied between one meter and four meters to search the maximum spurious emission for both horizontal and vertical polarizations.
5. Make the measurement with the spectrum analyzer's RBW = 1MHz, VBW = 3MHz, taking the record of maximum spurious emission.
6. A horn antenna was substituted in place of the EUT and was driven by a signal generator.
7. Tune the output power of signal generator to the same emission level with EUT maximum spurious emission.
8. Taking the record of output power at antenna port.
9. Repeat step 7 to step 8 for another polarization.
10.  $\text{EIRP (dBm)} = \text{S.G. Power} - \text{Tx Cable Loss} + \text{Tx Antenna Gain}$
11.  $\text{ERP (dBm)} = \text{EIRP} - 2.15$
12. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
13. The limit line is derived from  $43 + 10\log(P)$  dB below the transmitter power P(Watts)  
 $= P(W) - [43 + 10\log(P)]$  (dB)  
 $= [30 + 10\log(P)]$  (dBm) -  $[43 + 10\log(P)]$  (dB)  
 $= -13\text{dBm}$ .

### 3.7.4 Test Setup

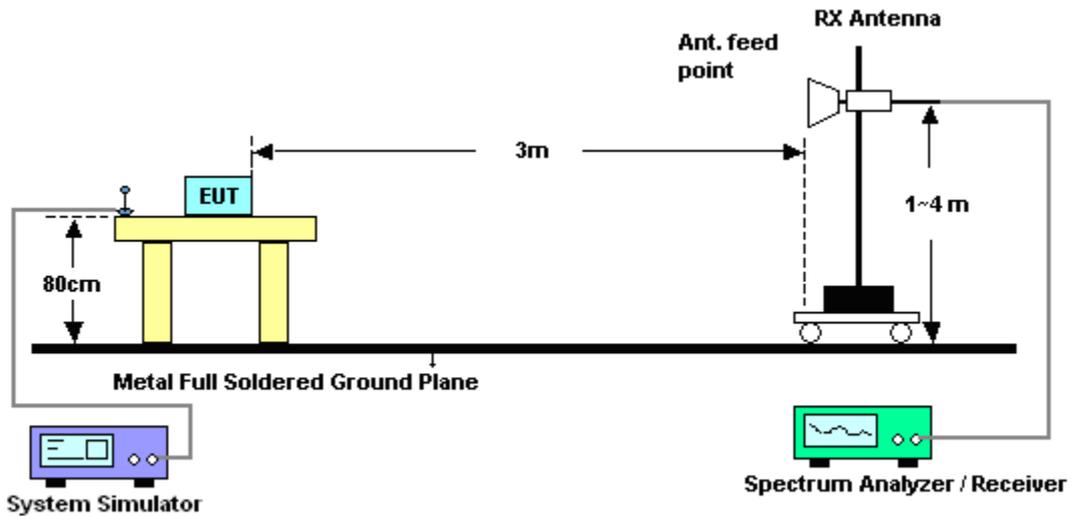
For radiated emissions below 30MHz



For radiated emissions from 30MHz to 1GHz



For radiated emissions above 1GHz



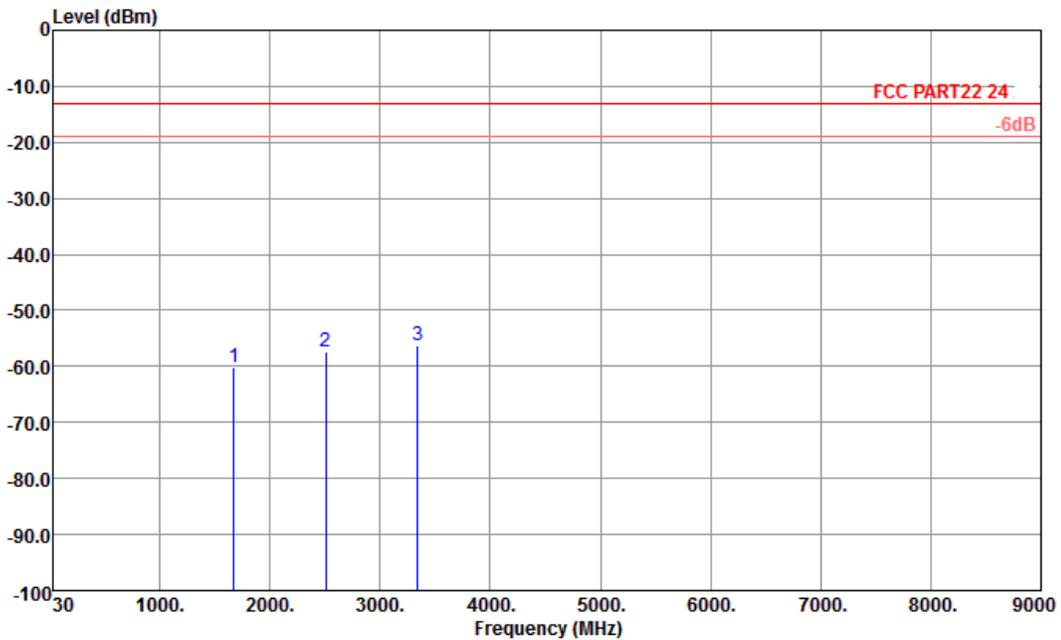
### 3.7.5 Test Results of Radiated Emissions (9 KHz ~ 30 MHz)

The low frequency, which started from 9 KHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit line per 15.31(o) was not reported.



3.7.6 Test Result of Field Strength of Spurious Radiated

|                 |  |                     |            |
|-----------------|--|---------------------|------------|
| Band :          | CDMA2000 BC0   | Temperature :       | 22~23°C    |
| Test Mode :     | 1xRTT_RC3+SO55   | Relative Humidity : | 41~42%     |
| Test Engineer : | Steven Hao   | Polarization :      | Horizontal |
| Remark :        | Spurious emissions within 30-1000MHz were found more than 20dB below limit line. |                     |            |

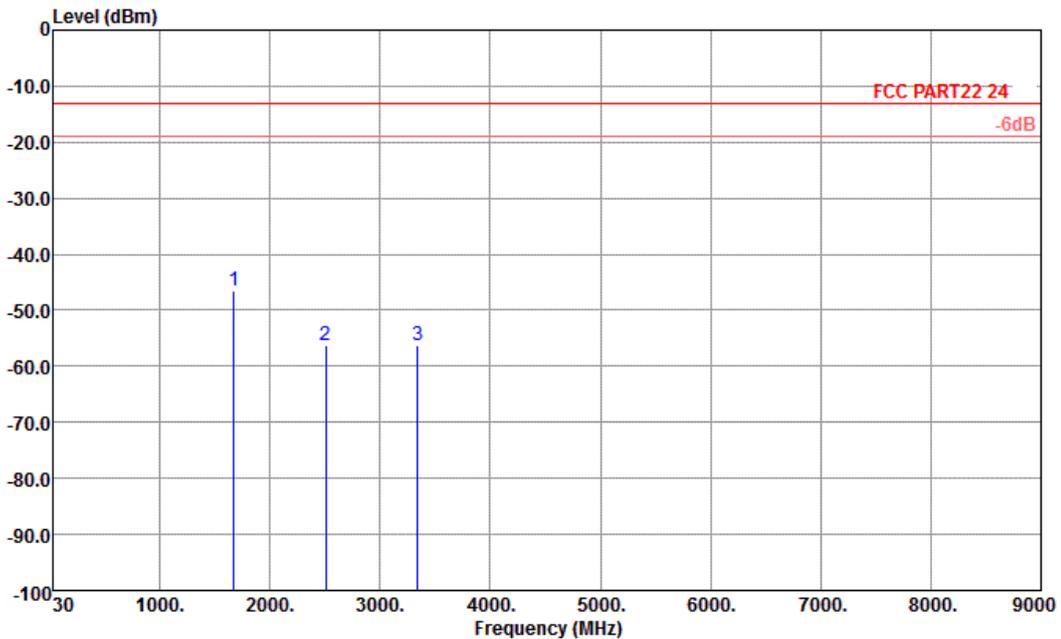


Site : 03CH01-KS  
 Condition : FCC PART22 24 HF EIRP FACTOR HORIZONTAL  
 Project : (FG)332103  
 Plane : E1

| Frequency ( MHz ) | ERP ( dBm ) | Limit ( dBm ) | Over Limit ( dB ) | SPA Reading ( dBm ) | S.G. Power ( dBm ) | TX Cable loss ( dB ) | TX Antenna Gain ( dBi ) | Polarization ( H/V ) | Result |
|-------------------|-------------|---------------|-------------------|---------------------|--------------------|----------------------|-------------------------|----------------------|--------|
| 1672              | -60.18      | -13           | -47.18            | -59.34              | -60.83             | 0.57                 | 3.37                    | H                    | Pass   |
| 2509              | -57.48      | -13           | -44.48            | -63.19              | -59.71             | 0.78                 | 5.16                    | H                    | Pass   |
| 3345              | -56.39      | -13           | -43.39            | -63.03              | -60.03             | 0.87                 | 6.66                    | H                    | Pass   |



|                        |  |                            |          |
|------------------------|--|----------------------------|----------|
| <b>Band :</b>          | CDMA2000 BC0   | <b>Temperature :</b>       | 22~23°C  |
| <b>Test Mode :</b>     | 1xRTT_RC3+SO55   | <b>Relative Humidity :</b> | 41~42%   |
| <b>Test Engineer :</b> | Steven Hao   | <b>Polarization :</b>      | Vertical |
| <b>Remark :</b>        | Spurious emissions within 30-1000MHz were found more than 20dB below limit line. |                            |          |

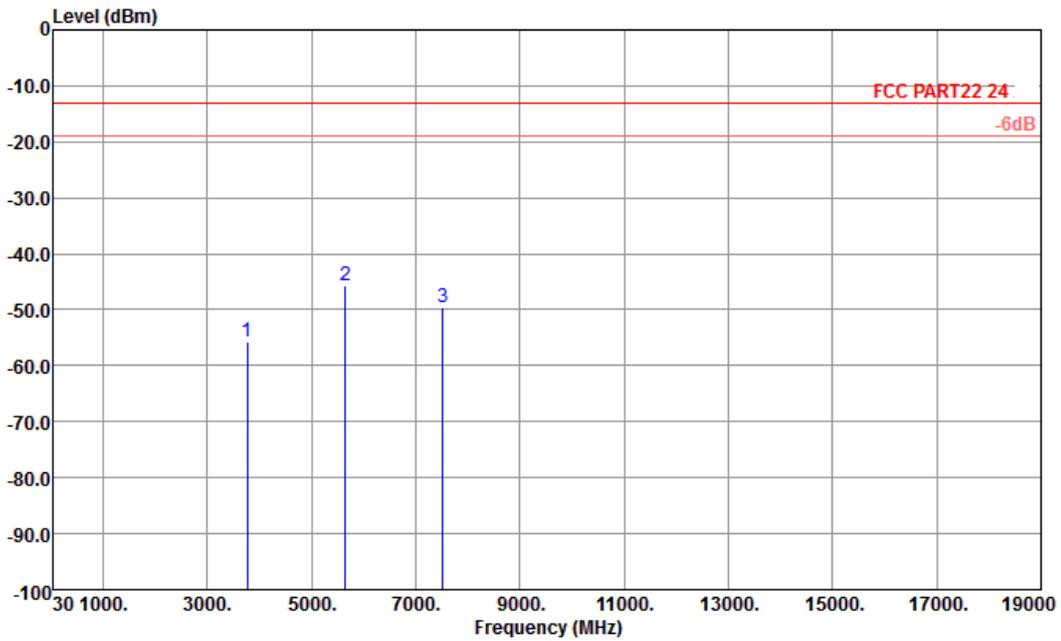


Site : 03CH01-KS  
 Condition : FCC PART22 24 HF EIRP FACTOR VERTICAL  
 Project : (FG)332103  
 Plane : E1

| Frequency ( MHz ) | ERP ( dBm ) | Limit ( dBm ) | Over Limit ( dB ) | SPA Reading ( dBm ) | S.G. Power ( dBm ) | TX Cable loss ( dB ) | TX Antenna Gain ( dBi ) | Polarization ( H/V ) | Result |
|-------------------|-------------|---------------|-------------------|---------------------|--------------------|----------------------|-------------------------|----------------------|--------|
| 1674              | -49.09      | -13           | -36.09            | -54.29              | -49.74             | 0.57                 | 3.37                    | V                    | Pass   |
| 2509              | -56.24      | -13           | -43.24            | -64.43              | -58.47             | 0.78                 | 5.16                    | V                    | Pass   |
| 3345              | -56.26      | -13           | -43.26            | -64.71              | -59.90             | 0.87                 | 6.66                    | V                    | Pass   |



|                 |  |                     |            |
|-----------------|--|---------------------|------------|
| Band :          | CDMA2000 BC1   | Temperature :       | 22~23°C    |
| Test Mode :     | 1xRTT_RC3+SO55   | Relative Humidity : | 41~42%     |
| Test Engineer : | Steven Hao   | Polarization :      | Horizontal |
| Remark :        | Spurious emissions within 30-1000MHz were found more than 20dB below limit line. |                     |            |

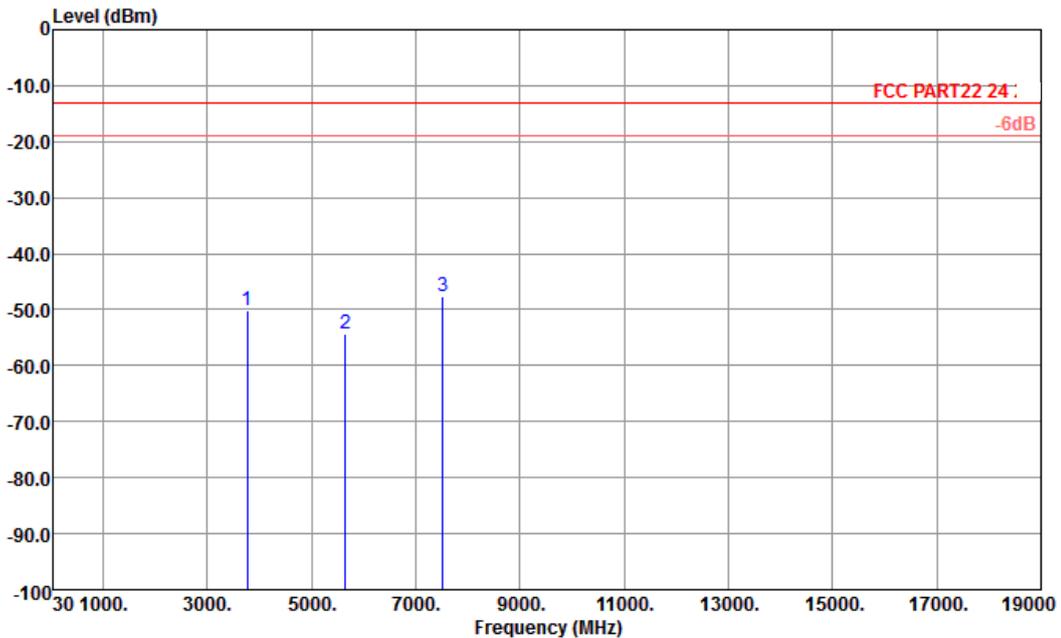


Site : 03CH01-KS  
 Condition : FCC PART22 24 HF EIRP FACTOR HORIZONTAL  
 Project : (FG)332103  
 Plane : H

| Frequency ( MHz ) | EIRP ( dBm ) | Limit ( dBm ) | Over Limit ( dB ) | SPA Reading ( dBm ) | S.G. Power ( dBm ) | TX Cable loss ( dB ) | TX Antenna Gain ( dBi ) | Polarization ( H/V ) | Result |
|-------------------|--------------|---------------|-------------------|---------------------|--------------------|----------------------|-------------------------|----------------------|--------|
| 3760              | -55.61       | -13           | -42.61            | -62.51              | -61.99             | 0.78                 | 7.16                    | H                    | Pass   |
| 5640              | -45.56       | -13           | -32.56            | -60.10              | -54.10             | 1.04                 | 9.58                    | H                    | Pass   |
| 7520              | -49.56       | -13           | -36.56            | -64.66              | -59.67             | 1.35                 | 11.46                   | H                    | Pass   |



|                 |  |                     |          |
|-----------------|--|---------------------|----------|
| Band :          | CDMA2000 BC1   | Temperature :       | 22~23°C  |
| Test Mode :     | 1xRTT_RC3+SO55   | Relative Humidity : | 41~42%   |
| Test Engineer : | Steven Hao   | Polarization :      | Vertical |
| Remark :        | Spurious emissions within 30-1000MHz were found more than 20dB below limit line. |                     |          |



Site : 03CH01-KS  
 Condition : FCC PART22 24 HF EIRP FACTOR VERTICAL  
 Project : (FG)332103  
 Plane : H

| Frequency ( MHz ) | EIRP ( dBm ) | Limit ( dBm ) | Over Limit ( dB ) | SPA Reading ( dBm ) | S.G. Power ( dBm ) | TX Cable loss ( dB ) | TX Antenna Gain ( dBi ) | Polarization ( H/V ) | Result |
|-------------------|--------------|---------------|-------------------|---------------------|--------------------|----------------------|-------------------------|----------------------|--------|
| 3760              | -50.18       | -13           | -37.18            | -61.07              | -56.56             | 0.78                 | 7.16                    | V                    | Pass   |
| 5640              | -54.21       | -13           | -41.21            | -63.07              | -62.75             | 1.04                 | 9.58                    | V                    | Pass   |
| 7520              | -47.70       | -13           | -34.70            | -64.91              | -57.81             | 1.35                 | 11.46                   | V                    | Pass   |

## 3.8 Frequency Stability Measurement

### 3.8.1 Description of Frequency Stability Measurement

The frequency stability shall be measured by variation of ambient temperature and variation of primary supply voltage to ensure that the fundamental emission stays within the authorized frequency block. The frequency stability of the transmitter shall be maintained within  $\pm 0.00025\%$  ( $\pm 2.5\text{ppm}$ ) of the center frequency.

### 3.8.2 Measuring Instruments

See list of measuring instruments of this test report.

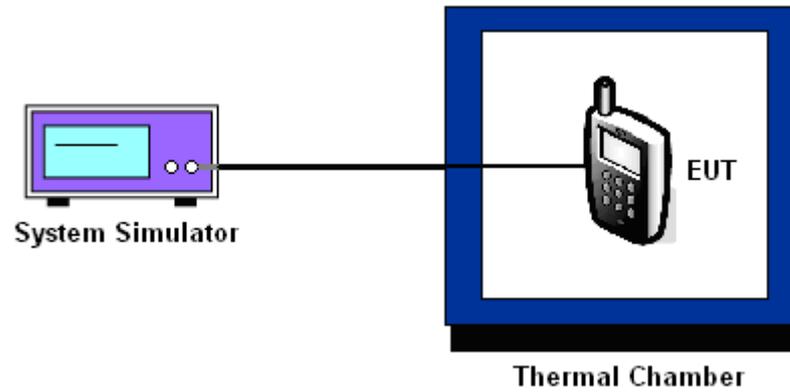
### 3.8.3 Test Procedures for Temperature Variation

1. The EUT was set up in the thermal chamber and connected with the base station.
2. With power OFF, the temperature was decreased to  $-30^{\circ}\text{C}$  and the EUT was stabilized before testing. Power was applied and the maximum change in frequency was recorded within one minute.
3. With power OFF, the temperature was raised in  $10^{\circ}\text{C}$  step up to  $50^{\circ}\text{C}$ . The EUT was stabilized at each step for at least half an hour. Power was applied and the maximum frequency change was recorded within one minute.
4. If the EUT cannot be turned on at  $-30^{\circ}\text{C}$ , the testing lowest temperature will be raised in  $10^{\circ}\text{C}$  step until the EUT can be turned on.

### 3.8.4 Test Procedures for Voltage Variation

1. The EUT was placed in a temperature chamber at  $25\pm 5^{\circ}\text{C}$  and connected with the base station.
2. The power supply voltage to the EUT was varied from BEP to 115% of the nominal value measured at the input to the EUT.
3. The variation in frequency was measured for the worst case.

### 3.8.5 Test Setup





3.8.6 Test Result of Temperature Variation

|               |                             |             |            |
|---------------|-----------------------------|-------------|------------|
| Band :        | CDMA2000 BC0 1xRTT_RC3+SO55 | Channel :   | 384        |
| Limit (ppm) : | 2.5                         | Frequency : | 836.52 MHz |

| Temperature (°C) | Freq. Dev. (Hz) | Deviation (ppm) | Result |
|------------------|-----------------|-----------------|--------|
| -30              | 31              | 0.04            | PASS   |
| -20              | 26              | 0.03            |        |
| -10              | 23              | 0.03            |        |
| 0                | 18              | 0.02            |        |
| 10               | 16              | 0.02            |        |
| 20               | 14              | 0.02            |        |
| 30               | 16              | 0.02            |        |
| 40               | 12              | 0.01            |        |
| 50               | 13              | 0.02            |        |
| 55               | 21              | 0.02            |        |

Note: The manufacturer declared that the EUT could work properly at temperature 55°C.

|               |                             |             |            |
|---------------|-----------------------------|-------------|------------|
| Band :        | CDMA2000 BC1 1xRTT_RC3+SO55 | Channel :   | 600        |
| Limit (ppm) : | 2.5                         | Frequency : | 1880.0 MHz |

| Temperature (°C) | Freq. Dev. (Hz) | Deviation (ppm) | Result |
|------------------|-----------------|-----------------|--------|
| -30              | 28              | 0.01            | PASS   |
| -20              | 26              | 0.01            |        |
| -10              | 32              | 0.02            |        |
| 0                | 24              | 0.01            |        |
| 10               | 19              | 0.01            |        |
| 20               | 15              | 0.01            |        |
| 30               | 18              | 0.01            |        |
| 40               | 14              | 0.01            |        |
| 50               | 12              | 0.01            |        |
| 55               | 15              | 0.01            |        |

**3.8.7 Test Result of Voltage Variation**

| Band & Channel        | Mode              | Voltage (Volt) | Freq. Dev. (Hz) | Deviation (ppm) | Limit (ppm) | Result |
|-----------------------|-------------------|----------------|-----------------|-----------------|-------------|--------|
| CDMA2000 BC0<br>CH384 | 1xRTT<br>RC3+SO55 | 3.7            | 17              | 0.02            | 2.5         | PASS   |
|                       |                   | BEP            | 21              | 0.02            |             |        |
|                       |                   | 4.2            | 32              | 0.04            |             |        |
| CDMA2000 BC1<br>CH600 | 1xRTT<br>RC3+SO55 | 3.7            | 18              | 0.01            | 2.5         | PASS   |
|                       |                   | BEP            | 26              | 0.01            |             |        |
|                       |                   | 4.2            | 16              | 0.01            |             |        |

**Note :**

1. Normal Voltage = 3.7V.
2. Battery End Point (BEP) = 3.5 V.



## 4 List of Measuring Equipment

| Instrument                | Manufacturer | Model No. | Serial No. | Characteristics | Calibration Date | Test Date     | Due Date      | Remark                |
|---------------------------|--------------|-----------|------------|-----------------|------------------|---------------|---------------|-----------------------|
| Spectrum Analyzer         | R&S          | FSP40     | 100319     | 9kHz~40GHz      | Dec. 29, 2012    | Mar. 27, 2013 | Dec. 28, 2013 | Conducted (TH01-KS)   |
| System Simulator          | R&S          | CMU200    | 837587/066 | 2G Full-Band    | Dec. 29, 2012    | Mar. 27, 2013 | Dec. 28, 2013 | Conducted (TH01-KS)   |
| DC Power Supply           | GWINSTEK     | GPS-3030D | E1884515   | N/A             | Aug. 22, 2012    | Mar. 27, 2013 | Aug. 21, 2013 | Conducted (TH01-KS)   |
| Thermal Chamber           | Ten Billion  | TTC-B3S   | TBN-960502 | N/A             | Dec. 29, 2012    | Mar. 27, 2013 | Dec. 28, 2013 | Conducted (TH01-KS)   |
| EMI Test Receiver         | R&S          | ESCI      | 100534     | 9kHz~3GHz       | Nov. 08, 2012    | Apr. 03, 2013 | Nov. 07, 2013 | Radiation (03CH01-KS) |
| Spectrum Analyzer         | R&S          | FSP30     | 100400     | 9kHz~30GHz      | Jun. 01, 2012    | Apr. 03, 2013 | May 31, 2013  | Radiation (03CH01-KS) |
| Bilog Antenna             | SCHAFFNER    | CBL6112D  | 23182      | 25MHz~2GHz      | Dec. 07, 2012    | Apr. 03, 2013 | Dec. 06, 2013 | Radiation (03CH01-KS) |
| Double Ridge Horn Antenna | EMCO         | 3117      | 00075959   | 1GHz~18GHz      | Jan. 06, 2013    | Apr. 03, 2013 | Jan. 05, 2014 | Radiation (03CH01-KS) |
| Amplifier                 | com-power    | PA-103A   | 161069     | 1MHz~1GHz       | Jun. 01, 2012    | Apr. 03, 2013 | May 31, 2013  | Radiation (03CH01-KS) |
| Amplifier                 | Agilent      | 8449B     | 3008A02370 | 1GHz~26.5GHz    | Dec. 29, 2012    | Apr. 03, 2013 | Dec. 28, 2013 | Radiation (03CH01-KS) |
| SHF-EHF Horn              | Schwarzbeck  | BBHA 9170 | 9170249    | 15GHz~40GHz     | Nov. 23, 2012    | Apr. 03, 2013 | Nov. 22, 2013 | Radiation (03CH01-KS) |
| HFH2-Z2 Loop Antenna      | R&S          | HFH2-Z2   | 100321     | 9KHZ-30MHZ      | N/A              | Apr. 03, 2013 | N/A           | Radiation (03CH01-KS) |
| Signal Generator          | R&S          | SMR40     | 100455     | 10MHz-40GHz     | Dec. 29, 2012    | Apr. 03, 2013 | Dec. 28, 2013 | Radiation (03CH01-KS) |
| System Simulator          | R&S          | CMU200    | 116456     | Full-Band       | Sep. 19, 2012    | Apr. 03, 2013 | Sep. 18, 2013 | Radiation (03CH01-KS) |



## 5 Uncertainty of Evaluation

### Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

|   |      |
|---|------|
| Measuring Uncertainty for a Level of Confidence of 95% ( $U = 2Uc(y)$ ) | 2.54 |
|---|------|

### Uncertainty of Radiated Emission Measurement (1 GHz ~ 40 GHz)

|   |      |
|---|------|
| Measuring Uncertainty for a Level of Confidence of 95% ( $U = 2Uc(y)$ ) | 4.72 |
|---|------|



## **Appendix A. Photographs of EUT**

Please refer to Sporton report number EP332103 as below.