

## Appendix F. FCC 3G SAR Measurement Procedures

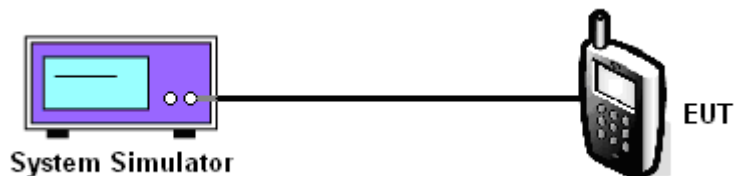
### Conducted Output Power:

The EUT was tested according to the requirements of the FCC 3G procedures and the 3.1.2.3.4.

A detailed analysis of the output power verification is provided as the table below:

| Function Type     | Reverse Traffic Channel | Test Mode | Radio Configuration           |                               | Service Option | Data Rates (kbps) | Power Control | Low Ch | Mid. Ch | High Ch |
|-------------------|-------------------------|-----------|-------------------------------|-------------------------------|----------------|-------------------|---------------|--------|---------|---------|
|                   |                         |           | Forward Traffic Channel (Fwd) | Reverse Traffic Channel (Rvs) |                |                   |               | 1013   | 384     | 777     |
| CDMA2000 Cellular | FCH                     | 1         | 1                             | 1                             | 55             | Full              | All Up        | 23.36  | 23.47   | 23.51   |
|                   |                         | 3         | 3                             | 3                             | 55             | Full              | All Up        | 23.49  | 23.64   | 23.56   |

## CDMA2000 Setup Configuration:



### Setup Configuration

1. The EUT was connected to System Simulator, Agilent 8960. Refer to the drawing of Setup Configuration.
2. The RF path losses were compensated into the measurements.
3. A call was established between EUT and System Simulator with following setting:
  - a. For 1xRTT, set the Radio Configuration and the Service Option
  - b. Set the Power Control to All Up Bits
4. The transmitted maximum output power was recorded.

| Call Setup Screen |                                                                                                                                                       |                 |                                                                                |
|-------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|--------------------------------------------------------------------------------|
| Call Control      | Active Cell Operating Mode                                                                                                                            |                 | Call Params                                                                    |
| Close Menu        | <b>Mobile Station Information</b><br>ESN (Hex):<br>ESN (Dec):<br>MCC:<br>MNC:<br>MSIN:<br>Slot Class:<br>Slot Cycle Index: ----<br>Protocol Revision: |                 | Cell Power<br>-86.00<br>dBm/1.23 MHz<br>Cell Band<br>US PCS<br>Channel<br>1175 |
|                   | <b>FCH Service Option Setup</b>                                                                                                                       |                 | Protocol Rev<br>6 (IS-2000-0)                                                  |
|                   | Service Option for Fwd4, Rvs4                                                                                                                         | Service Option  | Value                                                                          |
|                   | Service Option for S01 (Voice)                                                                                                                        | S055 (Loopback) |                                                                                |
|                   | Service Option for S02 (Loopback)                                                                                                                     | S09 (Loopback)  |                                                                                |
|                   | Service Option for S03 (Voice)                                                                                                                        | S055 (Loopback) |                                                                                |
|                   | Service Option for S06 (SMS)                                                                                                                          | S055 (Loopback) |                                                                                |
|                   | S055 (Loopback)                                                                                                                                       |                 |                                                                                |
|                   | S068 (Voice)                                                                                                                                          |                 |                                                                                |
|                   |                                                                                                                                                       | Active Cell     | Sys Type: IS-2000                                                              |
|                   | Idle                                                                                                                                                  |                 |                                                                                |
|                   | IntRef                                                                                                                                                | Offset          | 1 of 4                                                                         |

### 1xRTT setting for Radio Configuration 1 with Service Option 55

| Call Setup Screen |  |                                   |  |                          |  |                   |  |                          |  |
|-------------------|--|-----------------------------------|--|--------------------------|--|-------------------|--|--------------------------|--|
| Call Control      |  | Active Cell Operating Mode        |  |                          |  |                   |  | Call Params              |  |
|                   |  | Mobile Station Information        |  |                          |  |                   |  | Cell Power               |  |
|                   |  | ESN (Hex):                        |  |                          |  |                   |  | -86.00                   |  |
|                   |  | ESN (Dec):                        |  |                          |  |                   |  | dBm/1.23 MHz             |  |
|                   |  | NCC:                              |  |                          |  |                   |  | Cell Band                |  |
|                   |  | NMC:                              |  |                          |  |                   |  | US PCS                   |  |
|                   |  | NSIN:                             |  |                          |  |                   |  | Channel                  |  |
|                   |  | Slot Class:                       |  |                          |  |                   |  | 1175                     |  |
|                   |  | Slot Cycle Index: ----            |  |                          |  |                   |  | Protocol Rev             |  |
|                   |  | Protocol Revision:                |  |                          |  |                   |  | 6 (IS-2000-0)            |  |
|                   |  |                                   |  | FCH Service Option Setup |  |                   |  | Value                    |  |
|                   |  | Service Option for Fud3, Rvs3     |  |                          |  | S055 (Loopback)   |  | S055 (Loopback)          |  |
|                   |  | Service Option for S01 (Voice)    |  |                          |  | S09 (Loopback)    |  | S055 (Loopback)          |  |
|                   |  | Service Option for S02 (Loopback) |  |                          |  | S055 (Loopback)   |  | S055 (Loopback)          |  |
|                   |  | Service Option for S03 (Voice)    |  |                          |  | S055 (Loopback)   |  | S055 (Loopback)          |  |
|                   |  | Service Option for S06 (SIS)      |  |                          |  | S055 (Loopback)   |  | S055 (Loopback)          |  |
|                   |  | S055 (Loopback)                   |  |                          |  |                   |  | FCH Service Option Setup |  |
|                   |  | S032 (+ F-SCH)                    |  |                          |  |                   |  |                          |  |
| Close Menu        |  | Active Cell                       |  |                          |  | Sys Type: IS-2000 |  |                          |  |
|                   |  | Idle                              |  |                          |  |                   |  |                          |  |
|                   |  | IntRef Offset                     |  |                          |  |                   |  | 1 of 4                   |  |

1xRTT setting for Radio Configuration 3 with Service Option 55

### Reference:

- [1] SAR Measurement Procedures for 3G Devices CDMA 2000/Ev-Do/WCDMA/HSDPA, June 2006  
Laboratory Division Office of Engineering and Technology Federal Communications Commission
- [2] 3.1.2.3.4 Maximum RF Output Power 3GPP2 C.S0033-0 Version 2.0, Date: 12 December 2003  
Recommended Minimum Performance Standards for cdma2000 High Rate Packet Data Access Terminal