Appendix F.   FCC CDMA2000 SAR Measurement Procedures
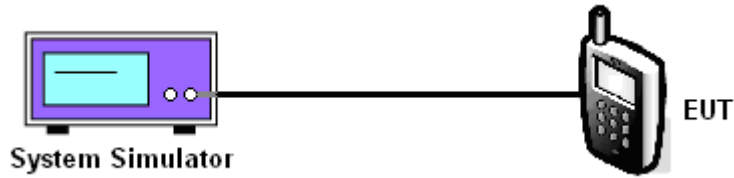
Conducted Output Power:

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 Forward Traffic Channel (Fwd)	Radio Configuration Reverse Traffic Channel (Rvs)	Service Option	Data Rates (kbps)	Power Control	Low Ch 1013	Mid. Ch 384	High Ch 777
CDMA2000 Cellular	FCH	1	1	1	55	Full	All Up	23.11	23.14	23.13
	FCH	3	3	3	55	Full	All Up	21.13	21.15	23.04
	F-SCH	3	3	3	32	FCH:Full,SCH 9.6	All Up	23.14	23.15	23.14
	SCH	3	3	3	32	FCH:Full,SCH 9.6	All Up	23.11	23.12	23.03
	EVDO Rev.0*	Subtype:0				RTAP 153.6	All Up	23.23	23.24	23.16
	EVDO Rev.A*	Subtype:0				RETAP 4096	All Up	23.21	23.22	23.21

Function Type	Reverse Traffic Channel	Test Mode	Radio Configuration Forward Traffic Channel (Fwd)	Radio Configuration Reverse Traffic Channel (Rvs)	Service Option	Data Rates (kbps)	Power Control	Low Ch 25	Mid. Ch 600	High Ch 1175
CDMA2000 PCS	FCH	1	1	1	55	Full	All Up	23.46	23.61	23.59
	FCH	3	3	3	55	Full	All Up	23.49	23.58	23.50
	F-SCH	3	3	3	32	FCH:Full,SCH 9.6	All Up	23.49	23.58	23.51
	SCH	3	3	3	32	FCH:Full,SCH 9.6	All Up	23.47	23.58	23.52
	EVDO Rev.0*	Subtype:0				RTAP 153.6	All Up	23.62	23.50	23.64
	EVDO Rev.A*	Subtype:0				RETAP 4096	All Up	23.59	23.66	23.65

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. For 1xEV-DO, set the Protocol Release and Data Rate

   c. Set the Power Control to All Up Bits

4. The transmitted maximum output power was recorded.

1xRTT setting for Radio Configuration 1 with Service Option 55

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1xRTT setting for Radio Configuration 3 with Service Option 55

1xRTT setting for Radio Configuration 3 with Service Option 32

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Call Setup Screen		
Call Control	Active Cell Operating Mode	Call Parms

Call Control

Operating Mode

Active Cell

Start Data Connection

Close Session

Handoff Setup ▽

AT Max Power
23 dBm/1.23MHz

1 of 3

Active Cell Operating Mode

Access Terminal Information (AT Reported)
Session Seed:
Hardware ID Type (Hex):
Hardware ID (Hex):
Hardware ID (Decimal):

Access Terminal Information (AN Assigned)
UATI 024:   ----
UATI Color Code: ----
MAC Index: ----

Protocol Release
0 (1xEV-DO)
A (1xEV-DO-A)
B (1xEV-DO-B)

Session Appl   Application
Test Applica
Limited TAP:
AT Directed
DRC Value Fi   %
ACK Channel

Active Cell
Idle

IntRef Offset   Sys Type: IS-856
PLSub0 RTAP

Call Parms

Rvs Power Ctrl
Active bits

Pwr Ctrl Step
1.0 dB

Call Drop Timer
On

Call Limit Mode
Off

Protocol Rel
0 (1xEV-DO)

2 of 3

1xEV-DO setting for Protocol Release (Rev.0 or Rev.A)

Call Setup Screen		
Call Control	Active Cell Operating Mode	Call Parms

Call Control

Operating Mode

Active Cell

Start Data Connection

Close Session

Handoff Setup ▽

AT Max Power
23 dBm/1.23MHz

1 of 3

Active Cell Operating Mode

Access Terminal Information (AT Reported)
Session Seed:
Hardware ID Type (Hex):
Hardware ID (Hex):
Hardware ID (Decimal):

Access Terminal Information (AN Assigned)
UATI 024:   ----
UATI Color Code: ----
MAC Index: ----

RTAP Rate
9.6 kbps
19.2 kbps
38.4 kbps
76.8 kbps
153.6 kbps

Session Appl   Application
Test Applica
Limited TAP:
AT Directed
DRC Value Fi   %
ACK Channel

Active Cell
Idle

IntRef Offset   Sys Type: IS-856
PLSub0 RTAP

Call Parms

Cell Power
-86.00
dBm/1.23 MHz

Cell Band
US PCS

Channel
1175

Application Config ▽

FTAP Rate
307.2 kbps
(2 Slot, QPSK)

RTAP Rate
9.6 kbps

1 of 3

1xEV-DO setting for RTAP data rate (153.6 kbps)

Call Setup Screen		
Call Control	**Active Cell Operating Mode**	**Call Parms**

Call Control	Active Cell Operating Mode	Call Parms
Operating Mode		**Cell Power**
Active Cell	**Access Terminal Information (AT Reported)**	−86.00
	Session Seed:	dBm/1.23 MHz
	Hardware ID Type (Hex):	**Cell Band**
	Hardware ID (Hex):	US PCS
	Hardware ID (Decimal):	
	Access Terminal Information (AN Assigned)	
Start Data Connection	UATI 024: ----	**Channel**
	UATI Color Code: ----	1175
	MAC Index: ----	
Close Session	**Application Configuration**	**Application Config** ▽
	Session Appl R-Data Packet Size Application	
	Enhanced Te 128 RP	**F-Traffic Format**
	AT Directed 256 %	4 (1024,2,128)
Handoff Setup ▽	DRC Value Fi 512	(307.2k, QPSK)
	ACK Channel 768	
	ACK Channel 1024 Capacity	**R-Data Pkt Size**
AT Max Power	Reverse Data kbps	128
23 dBm/1.23MHz	Expected En 1536	
		bits
	Active Cell	
	Idle	**Sys Type: IS-856**
1 of 3	IntRef Offset PLSub0 RETAP	1 of 3

1xEV-DO setting for RETAP data rate (4096 kbps)

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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