

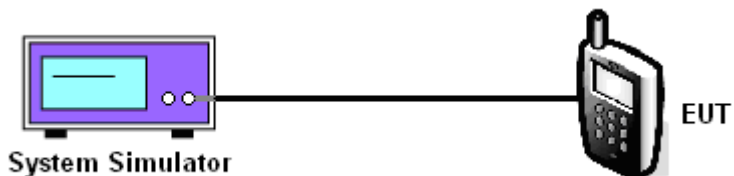
## Appendix F. FCC 3G SAR Measurement Procedures

### 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	25.43	25.36	24.22
		3	3	3	55	Full	All Up	25.23	25.20	24.14
	+FCH	3	3	3	32	FCH:Full,SCH 9.6	All Up	25.56	25.23	24.46
	+SCH	3	3	3	32	FCH:Full,SCH 9.6	All Up	25.54	25.24	24.06

**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.

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		
	INC:						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 Fud1, Rvs1						S055 (Loopback)			
Service Option for S01 (Voice)						S09 (Loopback)			
Service Option for S02 (Loopback)						S055 (Loopback)			
Service Option for S03 (Voice)						S055 (Loopback)			
Service Option for S06 (SMS)						S055 (Loopback)			
S055 (Loopback)						Radio Config			
S068 (Voice)						(Fud1, Rvs1)			
						S055 (Loopback)			
Close Menu						FCH Service Option Setup			
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		
Close Menu	<b>Mobile Station Information</b> ESN (Hex): ESN (Dec): MCC: MNC: MSIN: Slot Class: Slot Cycle Index: ---- Protocol Revision:						Cell Power -86.00 dBm/1.23 MHz Cell Band US PCS Channel 1175		
	<b>FCH Service Option Setup</b>						<b>Value</b>		
	Service Option for Fud3, Rvs3						S055 (Loopback)		
	Service Option for S01 (Voice)						S09 (Loopback)		
	Service Option for S02 (Loopback)						S055 (Loopback)		
	Service Option for S03 (Voice)						S055 (Loopback)		
	Service Option for S06 (SRS)						S055 (Loopback)		
	S055 (Loopback)								
	S032 (+ F-SCH)								
							Protocol Rev 6 (IS-2000-0)		
						Radio Config (Fud3, Rvs3) S055 (Loopback)			
						FCH Service Option Setup			
Active Cell Idle						Sys Type: IS-2000			
IntRef Offset						1 of 4			

**1xRTT setting for Radio Configuration 3 with Service Option 55**

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

**1xRTT setting for Radio Configuration 3 with Service Option 32**

Call Setup Screen									
Call Control		Active Cell Operating Mode					Call Params		
Operating Mode		<b>Access Terminal Information (AT Reported)</b> Session Seed: Hardware ID Type (Hex): Hardware ID (Hex): Hardware ID (Decimal):					Rvs Power Ctrl		
Active Cell							Rvs Power Ctrl	Active bits	
		<b>Access Terminal Information (AN Assigned)</b> UATI 024: ---- UATI Color Code: ---- MAC Index: ----					Pur Ctrl Step	1.0 dB	
Start Data Connection							Call Drop Timer	On	
		<b>Protocol Release</b> Session App: 0 (1xEV-DO) Application Test Applica: A (1xEV-DO-A) Limited TAP: B (1xEV-DO-B) AT Directed: DRC Value Fi: ACK Channel:					Call Limit Mode	Off	
Close Session							Protocol Rel	0 (1xEV-DO)	
		Active Cell Idle					Sys Type: IS-856		
Handoff Setup									
AT Max Power	23 dBm/1.23MHz								
1 of 3		IntRef	Offset	PLSub0	RTAP	2 of 3			

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

Call Setup Screen									
Call Control		Active Cell Operating Mode					Call Params		
Operating Mode		<b>Access Terminal Information (AT Reported)</b> Session Seed: Hardware ID Type (Hex): Hardware ID (Hex): Hardware ID (Decimal):					Cell Power	-86.00	
Active Cell							Cell Power	dBm/1.23 MHz	
		<b>Access Terminal Information (AN Assigned)</b> UATI 024: ---- UATI Color Code: ---- MAC Index: ----					Cell Band	US PCS	
Start Data Connection							Channel	1175	
		<b>RTAP Rate</b> Session App: 9.6 kbps Application Test Applica: 19.2 kbps Limited TAP: 38.4 kbps AT Directed: 76.8 kbps DRC Value Fi: 153.6 kbps ACK Channel:					Application Config		
Close Session							FTAP Rate	307.2 kbps (2 Slot, QPSK)	
		Active Cell Idle					Sys Type: IS-856		
Handoff Setup									
AT Max Power	23 dBm/1.23MHz								
1 of 3		IntRef	Offset	PLSub0	RTAP	1 of 3			

**1xEV-DO setting for RTAP data rate (9.6 or 38.4 or 153.6 kbps)**



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

1xEV-DO setting for RETAP data rate (128 or 2048 or 12288 kbps)



**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