

## Appendix F. FCC 3G SAR Measurement Procedures

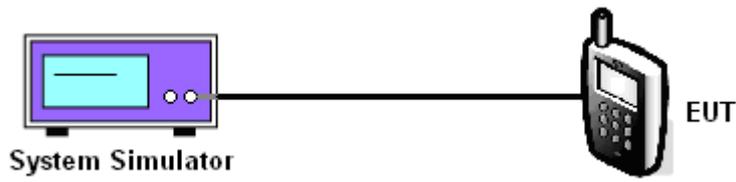
### Conducted Output Power:

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	21.49	21.69	22.05
		3	3	3	55	Full	All Up	21.47	21.65	22.07

### 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 Parm																													
Close Menu	<table border="1"> <thead> <tr> <th colspan="2">Mobile Station Information</th> </tr> </thead> <tbody> <tr><td>ESN (Hex):</td><td></td></tr> <tr><td>ESN (Dec):</td><td></td></tr> <tr><td>NCC:</td><td></td></tr> <tr><td>NMC:</td><td></td></tr> <tr><td>NSIN:</td><td></td></tr> <tr><td>Slot Class:</td><td></td></tr> <tr><td>Slot Cycle Index:</td><td>----</td></tr> <tr><td>Protocol Revision:</td><td></td></tr> </tbody> </table>		Mobile Station Information		ESN (Hex):		ESN (Dec):		NCC:		NMC:		NSIN:		Slot Class:		Slot Cycle Index:	----	Protocol Revision:		<table border="1"> <tr><td>Cell Power</td><td>-86.00</td></tr> <tr><td></td><td>dBm/1.23 MHz</td></tr> <tr><td>Cell Band</td><td>US PCS</td></tr> <tr><td>Channel</td><td>1175</td></tr> <tr><td>Protocol Rev</td><td>6 (IS-2000-0)</td></tr> </table>	Cell Power	-86.00		dBm/1.23 MHz	Cell Band	US PCS	Channel	1175	Protocol Rev	6 (IS-2000-0)
	Mobile Station Information																														
	ESN (Hex):																														
	ESN (Dec):																														
	NCC:																														
	NMC:																														
	NSIN:																														
	Slot Class:																														
	Slot Cycle Index:	----																													
	Protocol Revision:																														
Cell Power	-86.00																														
	dBm/1.23 MHz																														
Cell Band	US PCS																														
Channel	1175																														
Protocol Rev	6 (IS-2000-0)																														
<table border="1"> <thead> <tr> <th>FCH Service Option Setup</th> <th>Value</th> </tr> </thead> <tbody> <tr> <td>Service Option f</td> <td>S055 (Loopback)</td> </tr> <tr> <td>Service Option f</td> <td>S09 (Loopback)</td> </tr> <tr> <td>Service Option f</td> <td>S055 (Loopback)</td> </tr> <tr> <td>Service Option f</td> <td>S068 (Voice)</td> </tr> </tbody> </table>		FCH Service Option Setup	Value	Service Option f	S055 (Loopback)	Service Option f	S09 (Loopback)	Service Option f	S055 (Loopback)	Service Option f	S055 (Loopback)	Service Option f	S055 (Loopback)	Service Option f	S055 (Loopback)	Service Option f	S055 (Loopback)	Service Option f	S068 (Voice)	<table border="1"> <tr><td>Radio Config</td><td>(Fud1, Rvs1)</td></tr> <tr><td></td><td>S055 (Loopback)</td></tr> </table>	Radio Config	(Fud1, Rvs1)		S055 (Loopback)							
FCH Service Option Setup	Value																														
Service Option f	S055 (Loopback)																														
Service Option f	S09 (Loopback)																														
Service Option f	S055 (Loopback)																														
Service Option f	S055 (Loopback)																														
Service Option f	S055 (Loopback)																														
Service Option f	S055 (Loopback)																														
Service Option f	S055 (Loopback)																														
Service Option f	S068 (Voice)																														
Radio Config	(Fud1, Rvs1)																														
	S055 (Loopback)																														
<table border="1"> <tr><td>Active Cell</td><td>Idle</td><td>Sys Type: IS-2000</td></tr> <tr><td>IntRef</td><td>Offset</td><td></td></tr> </table>		Active Cell	Idle	Sys Type: IS-2000	IntRef	Offset		<table border="1"> <tr><td>FCH Service Option Setup</td><td></td></tr> </table>	FCH Service Option Setup																						
Active Cell	Idle	Sys Type: IS-2000																													
IntRef	Offset																														
FCH Service Option Setup																															
		1 of 4																													

1xRTT setting for Radio Configuration 1 with Service Option 55

Call Setup Screen																															
Call Control	Active Cell Operating Mode	Call Parm																													
Close Menu	<table border="1"> <thead> <tr> <th colspan="2">Mobile Station Information</th> </tr> </thead> <tbody> <tr><td>ESN (Hex):</td><td></td></tr> <tr><td>ESN (Dec):</td><td></td></tr> <tr><td>NCC:</td><td></td></tr> <tr><td>NMC:</td><td></td></tr> <tr><td>NSIN:</td><td></td></tr> <tr><td>Slot Class:</td><td></td></tr> <tr><td>Slot Cycle Index:</td><td>----</td></tr> <tr><td>Protocol Revision:</td><td></td></tr> </tbody> </table>		Mobile Station Information		ESN (Hex):		ESN (Dec):		NCC:		NMC:		NSIN:		Slot Class:		Slot Cycle Index:	----	Protocol Revision:		<table border="1"> <tr><td>Cell Power</td><td>-86.00</td></tr> <tr><td></td><td>dBm/1.23 MHz</td></tr> <tr><td>Cell Band</td><td>US PCS</td></tr> <tr><td>Channel</td><td>1175</td></tr> <tr><td>Protocol Rev</td><td>6 (IS-2000-0)</td></tr> </table>	Cell Power	-86.00		dBm/1.23 MHz	Cell Band	US PCS	Channel	1175	Protocol Rev	6 (IS-2000-0)
	Mobile Station Information																														
	ESN (Hex):																														
	ESN (Dec):																														
	NCC:																														
	NMC:																														
	NSIN:																														
	Slot Class:																														
	Slot Cycle Index:	----																													
	Protocol Revision:																														
Cell Power	-86.00																														
	dBm/1.23 MHz																														
Cell Band	US PCS																														
Channel	1175																														
Protocol Rev	6 (IS-2000-0)																														
<table border="1"> <thead> <tr> <th>FCH Service Option Setup</th> <th>Value</th> </tr> </thead> <tbody> <tr> <td>Service Option f</td> <td>S055 (Loopback)</td> </tr> <tr> <td>Service Option f</td> <td>S09 (Loopback)</td> </tr> <tr> <td>Service Option f</td> <td>S055 (Loopback)</td> </tr> <tr> <td>Service Option f</td> <td>S032 (+ F-SCH)</td> </tr> </tbody> </table>		FCH Service Option Setup	Value	Service Option f	S055 (Loopback)	Service Option f	S09 (Loopback)	Service Option f	S055 (Loopback)	Service Option f	S055 (Loopback)	Service Option f	S055 (Loopback)	Service Option f	S055 (Loopback)	Service Option f	S055 (Loopback)	Service Option f	S032 (+ F-SCH)	<table border="1"> <tr><td>Radio Config</td><td>(Fud3, Rvs3)</td></tr> <tr><td></td><td>S055 (Loopback)</td></tr> </table>	Radio Config	(Fud3, Rvs3)		S055 (Loopback)							
FCH Service Option Setup	Value																														
Service Option f	S055 (Loopback)																														
Service Option f	S09 (Loopback)																														
Service Option f	S055 (Loopback)																														
Service Option f	S055 (Loopback)																														
Service Option f	S055 (Loopback)																														
Service Option f	S055 (Loopback)																														
Service Option f	S055 (Loopback)																														
Service Option f	S032 (+ F-SCH)																														
Radio Config	(Fud3, Rvs3)																														
	S055 (Loopback)																														
<table border="1"> <tr><td>Active Cell</td><td>Idle</td><td>Sys Type: IS-2000</td></tr> <tr><td>IntRef</td><td>Offset</td><td></td></tr> </table>		Active Cell	Idle	Sys Type: IS-2000	IntRef	Offset		<table border="1"> <tr><td>FCH Service Option Setup</td><td></td></tr> </table>	FCH Service Option Setup																						
Active Cell	Idle	Sys Type: IS-2000																													
IntRef	Offset																														
FCH Service Option Setup																															
		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