

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.

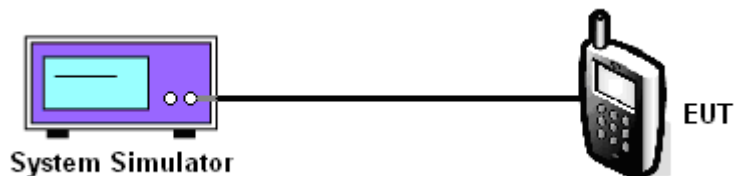
A detailed analysis of the output power verification is provided as the table below:

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 BC0	FCH	1	1	1	55	Full	All Up	23.32	23.33	23.40
		3	3	3	55	Full	All Up	23.34	23.37	23.42
		3	3	3	32	Full	All Up	23.44	23.40	23.45

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)				25	600	1275
CDMA2000 BC14	FCH	1	1	1	55	Full	All Up	21.78	21.83	21.01
		3	3	3	55	Full	All Up	21.84	21.93	20.92
		3	3	3	32	Full	All Up	21.89	21.99	20.86

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)				25	425	875
CDMA2000 BC15	FCH	1	1	1	55	Full	All Up	21.77	22.08	21.99
		3	3	3	55	Full	All Up	21.75	22.07	21.95
		3	3	3	32	Full	All Up	21.76	22.06	21.95

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	Mobile Station Information 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
	FCH Service Option Setup		Protocol Rev 6 (IS-2000-0)
	Service Option for Fwd4, Rvs4	Service Option	Value
	Service Option for S01 (Voice)	S01 (Voice)	S055 (Loopback)
	Service Option for S02 (Loopback)	S02 (Loopback)	S09 (Loopback)
	Service Option for S03 (Voice)	S03 (Voice)	S055 (Loopback)
	Service Option for S06 (SMS)	S06 (SMS)	S055 (Loopback)
	Service Option for S055 (Loopback)	S055 (Loopback)	S055 (Loopback)
	Service Option for S068 (Voice)	S068 (Voice)	S055 (Loopback)
	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		Mobile Station Information 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		
							Protocol Rev 6 (IS-2000-0)		
							Radio Config (Fud3, Rvs3)		
							S055 (Loopback)		
							FCH Service Option Setup		
							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		Mobile Station Information 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		
							Protocol Rev 6 (IS-2000-0)		
							Radio Config (Fud3, Rvs3)		
							S055 (Loopback)		
							FCH Service Option Setup		
							1 of 4		

1xRTT setting for Radio Configuration 3 with Service Option 32



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