

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.

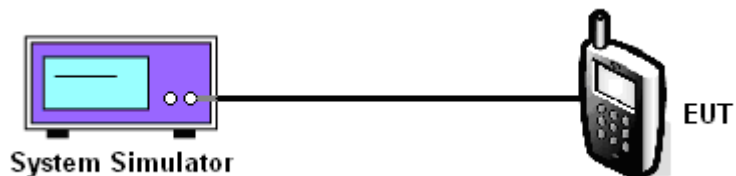
A detailed analysis of the output power verification is provided as the table below:

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
	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	Radio Config
Service Option for Fwd4, Rvs4		S055 (Loopback)	(Fwd1, Rvs1)
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 (SMS)		S055 (Loopback)	FCH Service Option Setup
S055 (Loopback)			
S068 (Voice)			
Close Menu	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	
								Sys Type: IS-2000	
								1 of 4	

FCH Service Option Setup		Value
Service Option for Fud3, Rvs3	S055 (Loopback)	S055 (Loopback)
Service Option for Fud3, Rvs3	S09 (Loopback)	S09 (Loopback)
Service Option for Fud3, Rvs3	S01 (Voice)	S055 (Loopback)
Service Option for Fud3, Rvs3	S02 (Loopback)	S055 (Loopback)
Service Option for Fud3, Rvs3	S03 (Voice)	S055 (Loopback)
Service Option for Fud3, Rvs3	S06 (SRS)	S055 (Loopback)
Service Option for Fud3, Rvs3	S055 (Loopback)	
Service Option for Fud3, Rvs3	S032 (+ F-SCH)	

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	
								Sys Type: IS-2000	
								1 of 4	

FCH Service Option Setup		Value
Service Option for Fud3, Rvs3	S055 (Loopback)	S055 (Loopback)
Service Option for Fud3, Rvs3	S09 (Loopback)	S09 (Loopback)
Service Option for Fud3, Rvs3	S02 (Loopback)	S032 (+ SCH)
Service Option for Fud3, Rvs3	S03 (Voice)	S055 (Loopback)
Service Option for Fud3, Rvs3	S06 (SRS)	S055 (Loopback)
Service Option for Fud3, Rvs3	S055 (Loopback)	
Service Option for Fud3, Rvs3	S032 (+ F-SCH)	
Service Option for Fud3, Rvs3	S032 (+ SCH)	

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