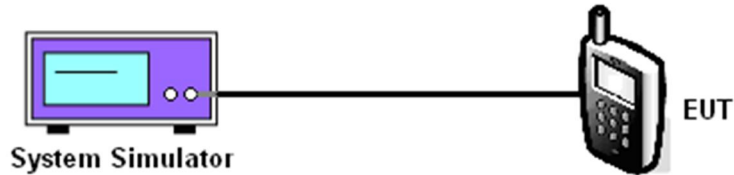


Appendix E. FCC 3G SAR Measurement Procedures

The EUT was tested according to the requirements of the FCC 3G procedures and the 3.1.2.3.4.

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 Parm	
Close Menu	Mobile Station Information				Cell Power	-86.00
	ESN (Hex):				dBm/1.23 MHz	
	ESN (Dec):				Cell Band	US PCS
	NCC:				Channel	1175
	NMC:				Protocol Rev	6 (IS-2000-0)
	NSIN:				Radio Config	(Fud1, Rvs1)
	Slot Class:				FCH Service Option Setup	S055 (Loopback)
	Slot Cycle Index: ----				Service Option	S09 (Loopback)
	Protocol Revision:				Service Option f	S01 (Voice)
					Service Option f	S02 (Loopback)
				Service Option f	S03 (Voice)	
				Service Option f	S06 (SRS)	
				Service Option f	S055 (Loopback)	
				Service Option f	S068 (Voice)	
				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 Parm	
Close Menu	Mobile Station Information			Cell Power	
	ESN (Hex):			-86.00	
	ESN (Dec):			dBm/1.23 MHz	
	NCC:			Cell Band	
	NMC:			US PCS	
	NSIN:			Channel	
	Slot Class:			1175	
	Slot Cycle Index: ----			Protocol Rev	
	Protocol Revision:			6 (IS-2000-0)	
	FCH Service Option Setup			Radio Config	
	Service Option			S055 (Loopback)	
	S01 (Voice)			S09 (Loopback)	
	S02 (Loopback)			S055 (Loopback)	
	S03 (Voice)			S055 (Loopback)	
S06 (SIS)			S055 (Loopback)		
S055 (Loopback)			FCH Service Option Setup		
S032 (+ F-SCH)			Sys Type: IS-2000		
Active Cell			Idle		
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 Parm	
Close Menu	Mobile Station Information			Cell Power	
	ESN (Hex):			-86.00	
	ESN (Dec):			dBm/1.23 MHz	
	NCC:			Cell Band	
	NMC:			US PCS	
	NSIN:			Channel	
	Slot Class:			1175	
	Slot Cycle Index: ----			Protocol Rev	
	Protocol Revision:			6 (IS-2000-0)	
	FCH Service Option Setup			Radio Config	
	Service Option			S055 (Loopback)	
	S02 (Loopback)			S09 (Loopback)	
	S03 (Voice)			S032 (+ SCH)	
	S06 (SIS)			S055 (Loopback)	
S055 (Loopback)			S055 (Loopback)		
S032 (+ F-SCH)			FCH Service Option Setup		
S032 (+ SCH)			Sys Type: IS-2000		
Active Cell			Idle		
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	Access Terminal Information (AT Reported) Session Seed: Hardware ID Type (Hex): Hardware ID (Hex): Hardware ID (Decimal):				Rvs Power Ctrl	
Active Cell					Active bits	
Start Data Connection	Access Terminal Information (AN Assigned) UATI 024: ---- UATI Color Code: ---- MAC Index: ----				Pur Ctrl Step	
					1.0 dB	
Close Session	Protocol Release Session App: 0 (1xEU-DO) Application Test Applica: A (1xEU-DO-A) Limited TAP: B (1xEU-DO-B) AT Directed: DRC Value Fi: ACK Channel:				Call Drop Timer	
					On	
Handoff Setup	Active Cell: Idle Sys Type: IS-856				Call Limit Mode	
					Off	
AT Max Power	23 dBm/1.23MHz				Protocol Rel	
					0 (1xEU-DO)	
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	Access Terminal Information (AT Reported) Session Seed: Hardware ID Type (Hex): Hardware ID (Hex): Hardware ID (Decimal):				Cell Power	
Active Cell					-86.00	
Start Data Connection	Access Terminal Information (AN Assigned) UATI 024: ---- UATI Color Code: ---- MAC Index: ----				dBm/1.23 MHz	
					Cell Band	
Close Session	RTAP Rate 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:				US PCS	
					Channel	
Handoff Setup	Active Cell: Idle Sys Type: IS-856				1175	
					Application Config	
AT Max Power	23 dBm/1.23MHz				FTAP Rate	
					307.2 kbps	
1 of 3			IntRef	Offset	PLSub0	RTAP 1 of 3
					(2 Slot, QPSK)	
					RTAP Rate	
					9.6 kbps	

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