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	23.58	22.92	22.90
		3	3	3	55	Full	All Up	23.51	23.01	22.96
		3	3	3	32	Full	All Up	23.62	23.00	22.87
	EVDO Rev.0*	Subtype:0/1				RTAP 153.6	All Up	23.59	23.02	22.87
	EVDO Rev.A*	Subtype:2				RETAP 4096	All Up	23.57	23.00	22.86

| 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	600	1175
CDMA2000 PCS	FCH	1	1	1	55	Full	All Up	23.16	23.59	23.24
		3	3	3	55	Full	All Up	23.29	23.66	23.38
		3	3	3	32	Full	All Up	23.29	23.55	23.33
	EVDO Rev.0*	Subtype:0/1				RTAP 153.6	All Up	23.22	23.58	23.35
	EVDO Rev.A*	Subtype:2				RETAP 4096	All Up	23.08	23.52	23.33

CDMA2000 Setup Configuration:
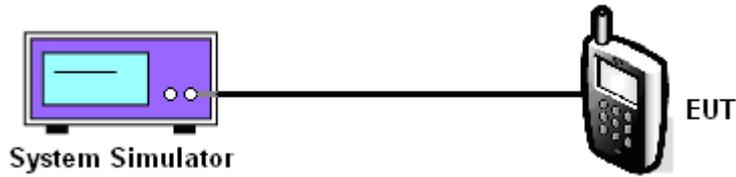
Setup Configuration

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.

1xRTT setting for Radio Configuration 1 with Service Option 55

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Page Number : F2 of F6
Report Issued Date : Sep. 01, 2010
Report Version : Rev. 01

1xRTT setting for Radio Configuration 3 with Service Option 55

1xRTT setting for Radio Configuration 3 with Service Option 32

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Page Number : F3 of F6
Report Issued Date : Sep. 01, 2010
Report Version : Rev. 01

```
┌───────────────────────────────────────────────────────────────────┐
│                        Call Setup Screen                            │
├──────────────┬──────────────────────────────────────┬─────────────┤
│ Call Control │      Active Cell Operating Mode       │ Call Parms  │
│Operating Mode│                                        │Rvs Power Ctrl│
│ Active Cell  │   Access Terminal Information (AT Reported) │ Active bits │
│              │ Session Seed:                          │             │
│              │ Hardware ID Type (Hex):                │Pwr Ctrl Step│
│              │ Hardware ID (Hex):                     │   1.0 dB    │
│              │ Hardware ID (Decimal):                 │             │
│              │   Access Terminal Information (AN Assigned)│Call Drop Timer│
│ Start Data   │ UATI 024:                    ----      │     On      │
│ Connection   │ UATI Color Code:             ----      │             │
│              │ MAC Index:                   ----      │Call Limit Mode│
│   Close      │        Protocol Release                │     Off     │
│   Session    │ 0 (1xEV-DO)          Application        │             │
│              │ Session Appl A (1xEV-DO-A)             │Protocol Rel │
│  Handoff     │ Test Applica B (1xEV-DO-B)             │ 0 (1xEV-DO) │
│   Setup      │ Limited TAP:                           │             │
│              │ AT Directed                   z        │             │
│ AT Max Power │ DRC Value Fi                           │             │
│23 dBm/1.23MHz│ ACK Channel                            │             │
│              │          Active Cell   Sys Type: IS-856│             │
│              │          Idle                          │             │
│    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 Parms  │
│Operating Mode│                                        │ Cell Power  │
│ Active Cell  │   Access Terminal Information (AT Reported) │   -86.00    │
│              │ Session Seed:                          │dBm/1.23 MHz │
│              │ Hardware ID Type (Hex):                │ Cell Band   │
│              │ Hardware ID (Hex):                     │   US PCS    │
│              │ Hardware ID (Decimal):                 │             │
│              │   Access Terminal Information (AN Assigned)│  Channel    │
│ Start Data   │ UATI 024:                    ----      │    1175     │
│ Connection   │ UATI Color Code:             ----      │             │
│              │ MAC Index:                   ----      │             │
│   Close      │           RTAP Rate                    │ Application │
│   Session    │ 9.6 kbps             Application        │  Config     │
│              │ Session Appl 19.2 kbps                 │             │
│  Handoff     │ Test Applica 38.4 kbps                 │ FTAP Rate   │
│   Setup      │ Limited TAP: 76.8 kbps                 │ 307.2 kbps  │
│              │ AT Directed  153.6 kbps       z        │(2 Slot, QPSK)│
│ AT Max Power │ DRC Value Fi                           │ RTAP Rate   │
│23 dBm/1.23MHz│ ACK Channel                            │  9.6 kbps   │
│              │          Active Cell   Sys Type: IS-856│             │
│              │          Idle                          │             │
│    1 of 3    │          IntRef Offset    PLSub0 RTAP  │   1 of 3    │
└──────────────┴──────────────────────────────────────┴─────────────┘
```

1xEV-DO setting for RTAP data rate

Call Setup Screen		
Call Control	**Active Cell Operating Mode**	**Call Parms**

Call Control

Operating Mode
Active Cell

Start Data Connection

Close Session

Handoff Setup ▽

AT Max Power
23 dBm/1.23MHz

1 of 3

Active Cell Operating Mode

Access Terminal Information (AT Reported)
Session Seed:
Hardware ID Type (Hex):
Hardware ID (Hex):
Hardware ID (Decimal):

Access Terminal Information (AN Assigned)
UATI 024:   ----
UATI Color Code: ----
MAC Index: ----

Application Configuration
R-Data Packet Size

Session Appl   Application
Enhanced Te **128**   AP
AT Directed 256   %
DRC Value Fi 512
ACK Channel 768
ACK Channel 1024
Reverse Data 1024   Capacity
Expected En 1536   kbps

	Active Cell	Sys Type: IS-856
	Idle	
	IntRef Offset	PLSub0 RETAP

Call Parms

Cell Power
-86.00
dBm/1.23 MHz

Cell Band
US PCS

Channel
1175

Application Config ▽

F-Traffic Format
4 (1024,2,128)
(307.2k, QPSK)

R-Data Pkt Size
128
bits

1 of 3

1xEV-DO setting for RETAP data rate

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Page Number   : F5 of F6
Report Issued Date : Sep. 01, 2010
Report Version   : Rev. 01

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

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Page Number   : F6 of F6
Report Issued Date : Sep. 01, 2010
Report Version   : Rev. 01