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 | Midd Ch | High Ch |
			Forward Traffic Channel (Fwd)	Reverse Traffic Channel (Rvs)				1013	384	777
CDMA2000 Cellular	FCH	1	1	1	55	Full	All Up	19.45	19.39	**19.72**
		3	3	3	55	Full	All Up	19.34	19.40	19.56
	FCH+SCH	3	3	3	32	FCH:Full,SCH 9.6	All Up	18.90	19.31	19.33
	EVDO Rev.0*		Subtype:0			UL:9.6	All Up	19.23	19.47	19.62
	EVDO Rev.0*		Subtype:0			UL:38.4	All Up	19.44	19.49	19.71
	EVDO Rev.0*		Subtype:0			UL:153.6	All Up	19.46	19.51	19.70
	EVDO Rev.A*		Subtype:0			RETAP_128Kbps	All Up	19.19	19.52	19.68
	EVDO Rev.A*		Subtype:0			RETAP_2048Kbps	All Up	19.43	19.43	19.67
	EVDO Rev.A*		Subtype:0			RETAP_4096Kbps	All Up	19.45	19.40	19.63
	EVDO Rev.A*		Subtype:0			RETAP_12288Kbps	All Up	19.47	19.54	19.66

| Function Type | Reverse Traffic Channel | Test Mode | Radio Configuration | | Service Option | Data Rates (kbps) | Power Control | Low Ch | Midd Ch | High Ch |
			Forward Traffic Channel (Fwd)	Reverse Traffic Channel (Rvs)				25	600	1175
CDMA2000 PCS	FCH	1	1	1	55	Full	All Up	18.70	19.20	18.89
		3	3	3	55	Full	All Up	18.63	**19.31**	18.91
	FCH+SCH	3	3	3	32	FCH:Full,SCH 9.6	All Up	18.67	19.09	18.88
	EVDO Rev.0*		Subtype:0			UL:9.6	All Up	18.66	19.28	19.07
	EVDO Rev.0*		Subtype:0			UL:38.4	All Up	18.77	19.25	18.96
	EVDO Rev.0*		Subtype:0			UL:153.6	All Up	18.57	19.21	18.88
	EVDO Rev.A*		Subtype:0			RETAP_128Kbps	All Up	18.79	19.29	18.88
	EVDO Rev.A*		Subtype:0			RETAP_2048Kbps	All Up	18.77	19.25	19.02
	EVDO Rev.A*		Subtype:0			RETAP_4096Kbps	All Up	18.76	19.27	19.10
	EVDO Rev.A*		Subtype:0			RETAP_12288Kbps	All Up	18.74	19.26	19.10

CDMA2000 Setup Configuration:

Setup Configuration

1. The EUT was connected to Base Station, 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 Base Station with following setting:
   a. Set the test mode1 and test mode 3.
   b. Set the Power control All Up for (FCH) and (FCH+SCH).
4. The transmitted maximum output power was recorded.

Test Mode 1 in Radio Configuration 1 (FCH)

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┌─────────────────────────────────────────────────────────────────┐
│                      Call Setup Screen                            │
├──────────────┬────────────────────────────────┬──────────────────┤
│ Call Control │   Active Cell Operating Mode   │   Call Parms     │
│Operating Mode│                                │ Cell Power       │
│ Active Cell  │┌──── Mobile Station Information─│    -86.00        │
│              ││ ESN (Hex):        0x6C32D3AE   │  dBm/1.23 MHz    │
│              ││ ESN (Dec):        108-03330990 │ Cell Band        │
│ System Type  ││ MCC:                           │   US PCS         │
│   IS-2000    ││ MNC:                           │                  │
│              ││ MSIN:             3163712588   │                  │
│              ││ Slot Class:       Slotted      │ Channel          │
│    End       ││ Slot Cycle Index: 2            │   1175           │
│    Call      ││ Protocol Revision: 6 (IS-2000_Rev0)               │
│              ││ Band Class:       US Cell  US PCS│                │
│ Paging IMSI  ││ MS Operating ┌─ Radio Config ─┐DMA│ Protocol Rev  │
│   Setup    ▽ ││ Max EIRP (dB │(Fwd1, Rvs1)    │ 7 │ 6 (IS-2000)   │
│              ││ Registration │(Fwd2, Rvs2)    │   │               │
│ Handoff      ││ QPCH Suppor  │(Fwd3, Rvs3)    │   │ Radio Config  │
│   Setup    ▽ ││ Enhanced RC  │(Fwd4, Rvs3)    │   │ (Fwd3, Rvs3)  │
│              ││ Min Power Co │(Fwd5, Rvs4)    │   │ SO32 (+ SCH)  │
│              ││ MS Called Pa └────────────────┘   │               │
│              │                                    │ FCH Service   │
│              │┌────────────┬──────────────┬───────│ Option Setup ▽│
│              ││≡ Background│Active Cell   │Sys Type: IS-2000       │
│              ││            │Connected + Data│                      │
│  1 of 2      ││            │IntRef Offset │        │   1 of 3      │
└──────────────┴┴────────────┴──────────────┴───────┴───────────────┘
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Test Mode 3 in Radio Configuration 3 (Service Option32)

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┌─────────────────────────────────────────────────────────────────┐
│                      Call Setup Screen                            │
├──────────────┬────────────────────────────────┬──────────────────┤
│ Call Control │   Active Cell Operating Mode   │   Call Parms     │
│Operating Mode│┌─ Access Terminal Information (AT Reported)─┐Cell Power│
│ Active Cell  ││ Session Seed:         0x7722375A   │    -60.00    │
│              ││ Hardware ID Type (Hex): 0x010000 ESN│ dBm/1.23 MHz│
│              ││ Hardware ID (Hex):    0x602D699F   │ Cell Band    │
│              ││ Hardware ID (Decimal): 096-02976159│   US PCS     │
│              │├─ Access Terminal Information (AN Assigned)─┐        │
│ Start Data   ││ UATI 024:             2            │ Channel      │
│ Connection   ││ UATI Color Code:      64           │   675        │
│              ││ MAC Index:            5            │              │
│ Close        │├─ Access Terminal Information (User Entered)│       │
│ Session      ││ AT Max Power:         23 dBm/1.23 MHz│Application  │
│              │├─ Application Configuration ───────┐ │ Config   ▽  │
│ Handoff      ││ Session Application Type: Test Application│         │
│   Setup    ▽ ││ Test Application Protocol: RTAP   │ FTAP Rate    │
│              ││ Limited TAP:          Off          │ 307.2 kbps   │
│ AT Max Power ││ AT Directed Packets:  50 %         │(2 Slot, QPSK)│
│23 dBm/1.23 MHz││ACK Channel Bit Fixed Mode Attribute: On│RTAP Rate │
│              │                                    │ 153.6 kbps   │
│              │┌────────────┬──────────────┬───────┤              │
│              ││≡ Background│Active Cell   │Sys Type: IS-856      │
│              ││            │Session Open  │Logging: No Conn.     │
│  1 of 3      ││            │IntRef Offset │        RTAP│ 1 of 3  │
└──────────────┴┴────────────┴──────────────┴────────────┴─────────┘
```

1xEV-DO setting with RTAP 153.6kbps

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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