# 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					Low Ch	Mid. Ch	High Ch
			Forward Traffic Channel (Fwd)	Reverse Traffic Channel (Rvs)	Service Option	Data Rates (kbps)	Power Control	1013	384	777
CDMA2000 Cellular	FCH	1	1	1	55	Full	All Up	24.51	24.40	24.41
		3	3	3	55	Full	All Up	24.50	24.37	24.50
		3	3	3	32	Full	All Up	24.49	24.39	24.51
	SCH	3	3	3	32	FCH:Full,SCH 9.6	All Up	24.45	24.34	24.41
	EVDO Rev.0*	Subtype:0				RTAP 153.6	All Up	24.61	24.50	24.52
	EVDO Rev.A*	Subtype:0				RETAP 4096	All Up	24.58	24.46	24.49

Function Type	Reverse Traffic Channel	Test Mode	Radio Configuration					Low Ch	Mid. Ch	High Ch
			Forward Traffic Channel (Fwd)	Traffic	Service Option	Data Rates (kbps)	Power Control	25	600	1175
CDMA2000 PCS	FCH	1	1	1	55	Full	All Up	24.28	24.36	24.22
		3	3	3	55	Full	All Up	24.29	24.42	24.25
		3	3	3	32	Full	All Up	24.20	24.34	24.15
	SCH	3	3	3	32	FCH:Full,SCH 9.6	All Up	24.23	24.36	24.19
	EVDO Rev.0*	Subtype:0				RTAP 153.6	All Up	24.32	24.44	24.27
	EVDO Rev.A*	Subtype:0				RETAP 4096	All Up	24.38	24.41	24.28

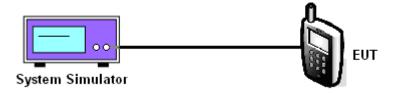
SPORTON INTERNATIONAL INC.

TEL: 886-3-327-3456 FAX: 886-3-328-4978 FCC ID: VGUZWP1 Page Number : F1 of F6
Report Issued Date : Dec. 16, 2010
Report Version : Rev. 01



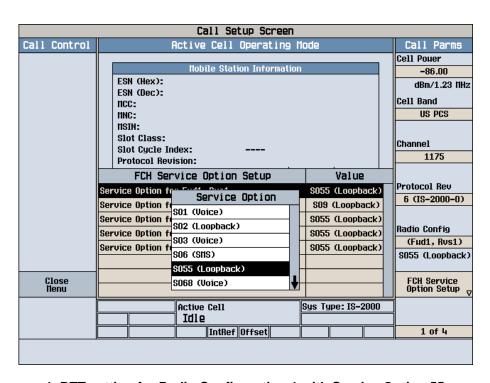
Report No.: FA0D0647A

## **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.



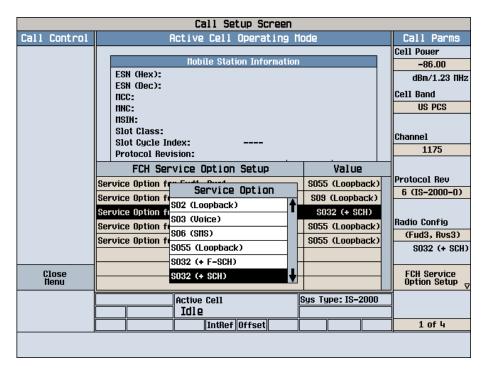
1xRTT setting for Radio Configuration 1 with Service Option 55

SPORTON INTERNATIONAL INC.

TEL: 886-3-327-3456 FAX: 886-3-328-4978 FCC ID: VGUZWP1 Page Number : F2 of F6
Report Issued Date : Dec. 16, 2010
Report Version : Rev. 01

Call Setup Screen Call Control Active Cell Operating Mode Call Parms Mobile Station Information -86.00 ESN (Hex): dBm/1.23 MHz ESN (Dec): Cell Band ncc: US PCS HNC: MSIN: Slot Class: Channel Slot Cucle Index: 1175 Protocol Revision: FCH Service Option Setup Value Protocol Rev Service Option fo S055 (Loopback) Service Option 6 (IS-2000-0) Service Option fo 909 (Loopback) SO1 (Voice) Service Option f S055 (Loopback) SO2 (Loopback) Radio Config Service Option f S055 (Loopback) SO3 (Voice) (Fud3, Rvs3) 9055 (Loopback) Service Option f S06 (SNS) S055 (Loopback) 8055 (Loopback) FCH Service Option Setup Close Henu 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



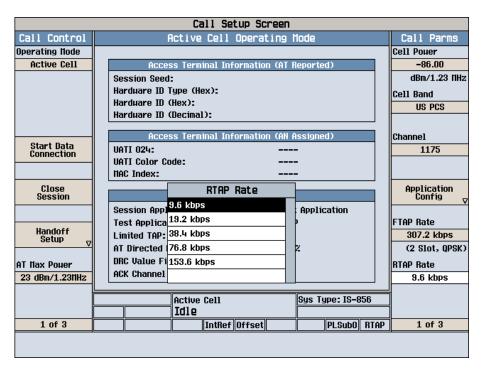
1xRTT setting for Radio Configuration 3 with Service Option 32

SPORTON INTERNATIONAL INC.

TEL: 886-3-327-3456 FAX: 886-3-328-4978 FCC ID: VGUZWP1 Page Number : F3 of F6
Report Issued Date : Dec. 16, 2010
Report Version : Rev. 01

Call Setup Screen Call Control Active Cell Operating Mode Call Parms Operating Mode Rvs Pouer Ctrl Active Cell Active bits Access Terminal Information (AT Reported) Session Seed: Harduare ID Type (Hex): Pur Ctrl Step Harduare ID (Hex): 1.0 dB Hardware ID (Decimal): Access Terminal Information (AN Assigned) Call Drop Timer Start Data Connection UATI 024: On **UATI Color Code:** MAC Index: Call Limit Hode Protocol Release Off Session Appl 0 (1xEV-00) **Application** Test Applica A (1xEV-DO-A) Protocol Rel Handoff Setup Limited TAP: B (1xEV-DO-B) 0 (1xEV-D0) **AT Directed** DRC Value F AT Max Pouer **ACK Channel** 23 dBm/1.23ffHz Active Cell Sus Tupe: IS-856 Idle 1 of 3 IntRef Offset PLSub0 RTAP 2 of 3

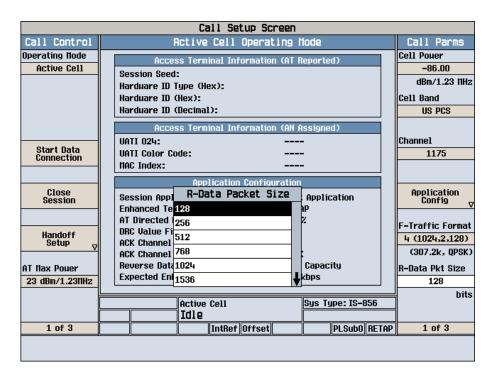
1xEV-DO setting for Protocol Release (Rev.0 or Rev.A)



1xEV-DO setting for RTAP data rate (9.6 or 38.4 or 153.6 kbps)

SPORTON INTERNATIONAL INC.

TEL: 886-3-327-3456 FAX: 886-3-328-4978 FCC ID: VGUZWP1 Page Number : F4 of F6
Report Issued Date : Dec. 16, 2010
Report Version : Rev. 01



1xEV-DO setting for RETAP data rate (128 or 2048 or 12288 kbps)

SPORTON INTERNATIONAL INC.

TEL: 886-3-327-3456 FAX: 886-3-328-4978 FCC ID: VGUZWP1 Page Number : F5 of F6
Report Issued Date : Dec. 16, 2010
Report Version : Rev. 01



#### FCC SAR Test Report

#### 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

TEL: 886-3-327-3456 FAX: 886-3-328-4978 FCC ID: VGUZWP1 Page Number : F6 of F6
Report Issued Date : Dec. 16, 2010
Report Version : Rev. 01