



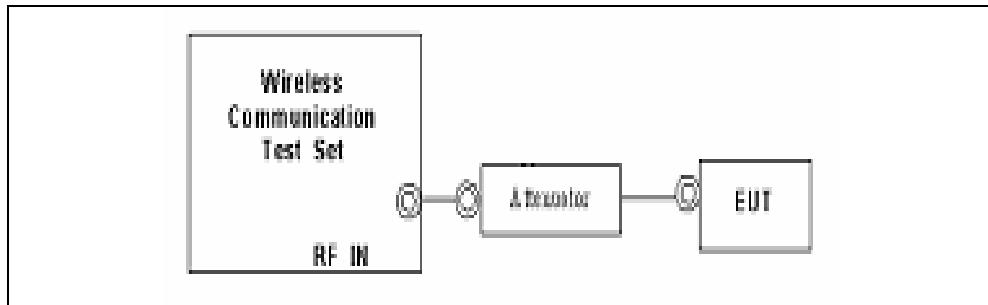
APPENDIX A – CDMA2000 1XEV-DO and 1XRTT Test Modes

Test Summary:

A full measurement in this report is done in CDMA2000 1XEV-DO mode with the uplink data rate 38.4kbps. The EUT is also able to activate on CDMA2000 1XRTT mode whose RC3 FCH for PCS band and FCH+SCH_RC3 for Cellular band mode are focused on radiated emissions and conducted measurement, including band edge, out of band spurious response, occupied bandwidth and frequency stability.

Base on all the uplink channels using the same modulation type, BPSK, and those maximum output power are very closer, above test modes could reflect compliance under all operational modes.

Test mode	Band	Modulation Type	Cellular Band			PCS Band		
			1013	384	777	25	600	1175
CDMA 1XRTT	FCH_RC3	BPSK	21.8	22.45	21.48	20.09	20.33	20.57
	FCH+SCH_RC3	BPSK	22.33	22.69	20.43	19.53	19.79	19.99
	FCH_RC1	BPSK	21.68	22.26	21.45	20.04	20.27	20.47
CDMA 1XEV-DO	EVDO-UL:153.6kbps	BPSK	21.96	22.39	21.77	20.17	20.55	20.81
	EVDO-UL:38.4kbps	BPSK	21.95	22.38	21.48	20.22	20.44	20.76
	EVDO-UL:9.6kbps	BPSK	22.14	22.22	21.51	20.16	20.44	20.77

Setup Configuration



1. The EUT was connected to Base Station, Agilent 8960.
Refer to the drawing of Setup Configuration.
2. The RF path losses was compensated into the measurements.
3. A call was established between EUT and Base Station for each modes with following settings:
 - a. Set the Power control All Up for the FCH_RC3 and FCH_RC1.
 - b. Set for test mode 3(FCH) and alternating bits for FCH+SCH.
 - c. Set the Power control All Up for all modes on CDMA2000 1XEV-DO .
4. The transmitted maximum output power was recorded.

Test Mode 1 in Radio Configuration 1 (FCH_RC1)

Call Setup Screen		
Call Control	Active Cell Operating Mode	
Mobile Station Information		Call Params
ESN (Hex): 0x6C32D3AE		Cell Power
ESN (Dec): 108-03330990		-86.00
MCC:		dBm/1.23 MHz
MNC:		Cell Band
MSIN: 3163712588		US PCS
Slot Class: Slotted		Channel
Slot Cycle Index: 2		1175
FCH Service Option Setup		Value
Service Option for Fud1, Rus1		S055 (Loopback)
Service Option for Fud2, Rus2		S09 (Loopback)
Service Option for Fud3, Rus3		S032 (+ SCH)
Service Option for Fud4, Rus3		S055 (Loopback)
Service Option for Fud5, Rus4		S055 (Loopback)
Background		Sys Type: IS-2000
Idle		
IntRef		Offset
1 of 3		
Close Menu		

Test Mode 1 in Radio Configuration 1 (FCH_RC1)



Test Mode 3 in Radio Configuration 3 (FCH+SCH)

Call Setup Screen			CallParms	
Call Control	Active Cell Operating Mode			
	Mobile Station Information			
Operating Mode	ESN (Hex):	0x6C32D3AE	Cell Power	
Active Cell	ESN (Dec):	108-03330990	-86.00	
System Type	IMSI:		dBm/1.23 MHz	
IS-2000	Slot Class:	3163712588	Cell Band	
End Call	Slot Cycle Index:	2	US PCS	
Paging IMSI Setup	Protocol Revision:	6 (IS-2000_Rev0)	Channel	
Handoff Setup	Band Class:	US Cell US PCS	1175	
	IS Operating Node:	CDMA	Protocol Rev	
	Max EIRP (dB):	(Fud1, Rus1)	6 (IS-2000)	
	Registration:	(Fud2, Rus2)	Radio Config	
	QPCH Supported:	(Fud3, Rus3)	(Fud3, Rus3)	
	Enhanced RC:	(Fud4, Rus3)	S032 (+ SCH)	
	Min Power Control Step:	(Fud5, Rus4)	FCH Service Option Setup	
	IS Called Party Number:			
1 of 2	Background	Active Cell Connected + Data	Sys Type: IS-2000	
1 of 2		IntRef Offset		

Test Mode 3 in Radio Configuration 3 (Service Option32)

Call Setup Screen			CallParms	
Call Control	Active Cell Operating Mode			
	Mobile Station Information			
Operating Mode	ESN (Hex):	0x6C32D3AE	Rus Power Ctrl	
Active Cell	ESN (Dec):	108-03330990	Alternating bits	
System Type	IMSI:		Pur Ctrl Size	
IS-2000	Slot Class:	3163712588	0.25 dB	
End Call	Slot Cycle Index:	2	Call Drop Timer	
Paging IMSI Setup	Protocol Revision:	6 (IS-2000_Rev0)	Off	
Handoff Setup	Band Class:	US Cell US PCS	Call Limit Node	
	IS Operating Node:	CDMA CDMA	Off	
	Max EIRP (dB):	-7 -7	Traffic Data Rate	
	Registration Type:		Full	
	QPCH Supported:	Yes		
	Enhanced RC Support:	Yes		
	Min Power Control Step:	Unknown		
	IS Called Party Number:			
1 of 2	Background	Active Cell Connected + Data	Sys Type: IS-2000	
1 of 2		IntRef Offset		

RC 3 (FCH+SCH mode) with alternating bits



Call Setup Screen		
Call Control	Active Cell Operating Mode	CallParms
Operating Node		Cell Power
Active Cell		-60.00
		dBm/1.23 MHz
Start Data Connection		Cell Band
		US PCS
Close Session		Channel
		675
Handoff Setup		Application Config
AT Max Power	AT Max Power: 23 dBm/1.23 MHz	FTAP Rate
23 dBm/1.23 MHz		307.2 kbps
		(2 Slot, QPSK)
		RTAP Rate
		153.6 kbps
1 of 3	Background Active Cell Sys Type: IS-856	
	Session Open Logging: No Conn.	
	IntRef Offset RTAP	1 of 3

1XEVDO 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