

Appendix H – Tune up Procedure

Test Configuration of Equipment under Test

The EUT has been tested under continuous transmitting mode.

All tests are performed at Low channel , Middle channel, High channel.

During all testings, EUT is in link mode with Base Station emulator (8960 Series 10) at Maximum power level.

Frequency range has been investigated : Radiated emission has been measured from 30MHz to 12.75GHz.

The field strength of spurious radiation emission for CDMA was measured at EUT stand-up position (H mode) and lie down position (E1 , E2 mode).

TEST Set-up

1) Getting Started

- i. Power-up the laptop.
- ii. Connect USB port (on Module) to PC, And Confirm Power.
- iii. Install the Hard ware driver.
- iv. Execute Hyper Terminal
- v. Set Port (Data Modem @CDMA(5553)) and Baud rate(115200).
- vi. Use the AT Commander
 1. at\$\$\$hdr_mode=1 : only 1X mode (cdma2000)
 2. at\$\$\$hdr_mode=2 : HDR mode (1x EVDO)

2) Setting the Base station

a) only 1X mode (cdma2000)

- i. System ID : 1234
- ii. Network ID : 0
- iii. Primary Call Channel : US CELLUER - 384

US PCS - 600

*Please see the Capture screen

Call Setup Screen									
Cell Info	Cell Information						Call Params		
Cell Parameters ▾	Cell Parameters			Access Parameters			Rvs Power Ctrl		
	System ID (SID): 1234			Nominal Power: 0 dB			All Up bits		
	Network ID (NID): 0			Initial Power: 0 dB			Pur Ctrl Size		
	Escape Mode: Off			Power Step: 3 dB			1.0 dB		
Access Parameters ▾	Cell MCC: 310			Number of Steps: 3			Call Drop Timer		
	Cell MNC: 0			Max Request Seq: 1			Off		
	Paging Data Rate: Full			Max Response Seq: 1			Call Limit Mode		
	Max Slot Cycle Index: 1			Preamble Size: 10			Off		
Registration Parameters ▾	Curr F-QPCH State: Off			Registration Parameters			Off		
	Curr F-QPCH Level (Rel to Pilot): -3 dB			Timer Reg State: On			Traffic Data Rate		
	F-QPCH Data Rate: Full			Registration Period: 29			Full		
	RL Gain (Traffic to Pilot): 0			Power Up Reg State: On					
Return									
Background		Active Cell		Sys Type: IS-2000					
		Connected							
		IntRef	Offset						
		2 of 4							

b) HDR mode (1x EVDO)

i. Session Open Channel : US CELLUER – 589

US PCS – 250

*Please see the Capture screen

Call Setup Screen									
Call Control		Active Cell Operating Mode						Call Params	
Operating Mode		<div>Access Terminal Information (AT Reported)</div> <div>Session Seed: 0x5E3CCEF8</div> <div>Hardware ID Type (Hex): 0x010000 ESM</div> <div>Hardware ID (Hex): 0x00000000</div> <div>Hardware ID (Decimal): 000-00000000</div> <div>Access Terminal Information (AN Assigned)</div> <div>UATI 024: 1</div> <div>UATI Color Code: 64</div> <div>MAC Index: 5</div> <div>Access Terminal Information (User Entered)</div> <div>AT Max Power: 23 dBm/1.23 MHz</div> <div>Application Configuration</div> <div>Application: FTAP</div> <div>Limited TAP: Off</div> <div>AT Directed Packets: 50 %</div> <div>ACK Channel Bit Fixed Mode Attribute: On</div>						Rvs Power Ctrl	
Active Cell								All Up bits	
								Pur Ctrl Step	
								1.0 dB	
End Data Connection								Call Drop Timer	
								Off	
Close Session								Call Limit Mode	
								Off	
Handoff Setup								Protocol Rev	
								0 (1xEV-DO)	
AT Max Power									
23 dBm/1.23 MHz									
		Background		Active Cell		Sys Type: IS-856			
				Connected					
1 of 2				IntRef Offset				FTAP	
								2 of 3	

3) How to change Channels

To change the Tx channels (1013, 363,777), Put In call Parameter channel

4) How to change Transmit Power Level

To Change from the Active Bits to All up Bits (Maximum Out put Power)

At Rvs Power Ctrl menu of Form the Active Bits of Base Station.