E1990A cdma2000/IS-95/AMPS Automated Test Software B.02.00 (Rev B) Transition Notes

Installation of this software will result in the creation of new folders which will NOT OVERWRITE previously developed test procedures which exist on your computer. However, due to substantial changes to the library files used by the B.02.00 software, test procedures developed with E1990A (A.01.15) may **NOT** be used with the E1990A RevB (B.02.00) software and vice versa.

A simple method of recognizing this has been developed for your convenience:

- Custom test procedures which are created within and acknowledged by the E1990A RevB software are denoted by the "**.pro**" suffix.

- Custom test procedures which are created within and acknowledged by the E1990A software are denoted by the "**.prc**" suffix.

- The default location of B.02.00, and .pro files, is C:\Program Files\Agilent Technologies\E1990A RevB

Refer to the "**Procedure Files Created From an Earlier E1990A Software Version Won't Load**" section of the E1990A RevB software's online help for more detail.
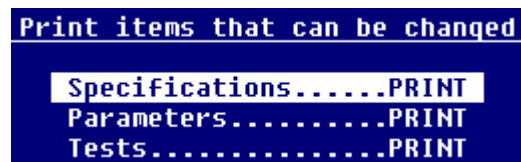
Below are details for performing an efficient transition to E1990A RevB (B.02.00):

Print Specifications, Parameters, and Test Names of A.01.15:

1. Run the previously installed E1990A A.01.15 software with HTBasic 8.3.
2. Load one of your saved test procedures.
3. Select *Prt Specs Parms Tests* on the main menu. Set all choices to PRINT and select Done (F1).

```
┆ Online Help         ┆
┆ Prt Specs Parms Tests ┆
```

```
Print items that can be changed

   Specifications......PRINT
   Parameters..........PRINT
   Tests...............PRINT
```

4. Utilize the printouts for reference when replicating these procedures in E1990A B.02.00.
5. Repeat these steps for all remaining test procedures you plan to replicate in E1990A B.02.00.

Run B.02.00:

1. Double click the HTBasic 8.3 (or HTBasic 8.3 Runtime) icon that automatically installs on the desktop or choose Start, then Programs, then TransEra HTBasic 8.3 (or TransEra HTBasic Runtime), and finally HTBasic.

2. The AUTOST program in the HTBasic directory will automatically be loaded and run which will attempt to load an HTBasic GPIB driver and then load and run the E1990A software.

   *** The E1990A software will not run properly if the program is started by executing the E1990A.PRG file directly either with a user generated icon or by double clicking the E1990A.PRG file in Windows Explorer. Doing so bypasses the AUTOST program which loads the necessary binaries for the E1990A program to run properly.***

3. If necessary, choose which version, A.01.15 (E1990A) or B.02.00 (E1990A Rev B), of the E1990A software will run. Enter "1" to run the A.01.15, or "2" to run the B.02.00 version.

Transferring a Test Procedure from A.01.15 to B.02.00:

1. *Load Test Procedure:* From the main menu, select this choice, then select any of the available tests.

2. *Edit Parameters (Global):* There have been several additions to the settable parameters list, modify these as needed. For those that did appear in A.01.15, modify those as necessary per your previous settings shown on your printout. Keep in mind that any changes made to test specific parameters within *Define Suites* (Step 4) will override settings made here.

```
UUT Test parameters and values
Library name: E1990A      Library rev: 09/14/01      Procedure name: MYTEST1
|No.            Parameter name (units)              |    Parameter value    |
   1  System ID                                      1
   2  Network ID                                     1
   3  Cell MCC                                       310
```

3. *Edit Specifications:* There have been several additions to the specifications (test limits) list, modify these as needed. For those that did appear in A.01.15, modify those as necessary per your previous settings shown on your printout.

```
UUT Test specifications and values
Library name: E1990A      Library rev: 09/14/01      Procedure name: MYTEST1
|No.         Test specification name (units)        |Lower limit|Upper limit|
   1 TXD Closed Loop Power Control Up Range (dB)      24
   2 TXD Closed Loop Power Control Down Range (dB)               -24
   3 TXD Maximum RF Output Power (dBm)                18         27
```

4. *Define Suites*: From the available tests list, add the tests which you utilized in A.01.15 to the test sequence and include additional desired IS-95 or AMPS tests which are now available.

```
Select or modify the test sequence
Library name: E1990A      Library rev: 09/14/01      Procedure name: MYTEST2
           Available tests  [More]                    Test sequence
Suite #  1 of  1
Channels:384
 CDMA Registration                     CDMA Registration
 CDMA Page                             CDMA Page
 CDMA Origination                      Waveform Quality
 Waveform Quality                      Open Loop Output Power
 Open Loop Output Power                 Closed Loop Power Control
 Closed Loop Power Control             Maximum RF Output Power
 Maximum RF Output Power               Minimum Controlled Output Power
 Minimum Controlled Output Power       Traffic Channel FER with AWGN
 Traffic Channel FER with AWGN         Receiver Sensitivity
 Receiver Sensitivity                  Interband Handoff
 RX/TX Quick General                   TXA SAT Deviation & Frequency Error
 Voice Quality                         TXA RF Power Output
 BS Release                            BS Release
 Access Probe Open Loop Power
```

5. *Edit parameters (test specific)*: Choose Set Parms (F2) to modify parameters for each listing of the test sequence and perform any necessary changes.

```
Suite's unique parameters and values
Library name: E1990A      Library rev: 09/14/01      Procedure name: MYTEST1
No.              Parameter name (units)          Toggle/1 of M  Parm Value
 20  Re-try Test if Call is Dropped             No             0
 68  Rate Set 1 Loopback Service Option         SO2            0
 70  Rate Set 2 Loopback Service Option         SO9            0
 44  Cell Power for Waveform Quality (dBm)                     -101
```

6. Proceed to make necessary updates to the remaining menu selections:

   - *Edit Amplitude Offsets*
   - *Edit Output Heading*
   - *Set Exec Conditions*
   - *Configure Test System*
   - *Define UUT Library*
   - *Define UUT Procedure*

7. Save the new procedure.