54754A-04

SERVICE NOTE

Supersedes: NONE

54754A Differential TDR Module

Serial Numbers: 0000A00000 / MY42510397

(First shipments that were screened for this issue began in September2004)

TDR Module fails Vertical CAL, but passes after hot swap and re-test.

To Be Performed By: Agilent-Qualified Personnel

Parts Required:

P/N Description Qty.

54754-66501 Digital Board 1

ADMINISTRATIVE INFORMATION

SERVICE NOTE CLASSIFICATION:			
MODIFICATION RECOMMENDED			
ACTION CATEGORY:	[[]] X ON SPECIFIED FAILURE [[]]	STANDARDS: LABOR: 0.5 Hours + CAL	
LOCATION CATEGORY:	([]] ([]] X SERVICE CENTER	SERVICE INVENTORY: X SEE TEXT	USED [[]] PARTS: XX SCRAP
AVAILABILITY:	PRODUCT'S SUPPORT LIFE	AGILENT RESPONSIBLE UNTIL:	End of Support
AUTHOR: RGS PRODUCT LINE: 8F ADDITIONAL INFORMATION: Inspect Service Inventory for correct part (see Figure 1 and 2). Scrap assy with wrong part (Fig 1).			

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Situation:

Some 54754-65501 Digital Boards were loaded with the wrong voltage regulator, Semtech EZ1086 (see Fig 1 below) and under certain power-up conditions, it may cause a module Vertical failure.

To check for this condition, perform a module vertical CAL two times, as follows:

Case 1:

- a. Insert the 54754A module into the mainframe (86100A/B/C) and tighten the module anchor screws.
- b. Power on the mainframe.
- c. Perform Steps 1-3 below.

Case 2:

- a. Power on the 86100A/B/C mainframe (no module installed).
- b. Insert the 54754A module into the mainframe and tighten the module anchor screws.
- c. Perform Steps 1-3 below.
- 1. On the GUI, select <Calibrate>, <All Calibrate>.
- 2. Click <Calibrate Left Module> (or right module, as appropriate).
- 3. Follow the directions on screen.

Results:

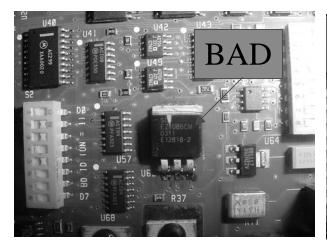
Failure: A "Module Calibration failed" dialog box will appear on screen. Click close.

Pass: A "Calibration Completed" message will appear in the message area beneath the graticule screen.

Solution/Action:

If a 54754A module fails module vertical cal in Case 1, but passes in Case 2 (Hot Swap), replace the digital assembly (54754-66501) per this Service Note.

Note: Digital Board failures which do not have the wrong part loaded (Figure 1) or do not have this failure mechanism are NOT covered by this Service Note.





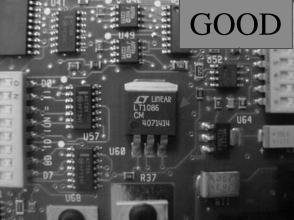


Figure 2 – Linear LT1086, Correct Part (P/N 1826-2910)