E8257D-17E

Modification Available Performance Enhancement Service Note

Supersedes: E8257D-17A

E8257D Analog Signal Generator

Serial Numbers: ALL

Instrument failing self-test 704

Parts Required:

P/N Description Qty.

NONE

ADMINISTRATIVE INFORMATION

[[]] Calibration Required x Calibration NOT Required Calibration NOT Required

PRODUCT LINE: 15 AUTHOR: SN

ADDITIONAL INFORMATION:



Situation:

The self-test limits for A6 Frac-N have been updated to avoid possible faulty self-test failure 704. This applies for all instruments including units with Special Handling options HCC and HAR.

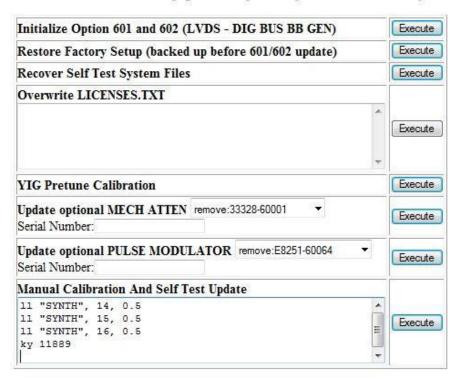
Solution/Action:

- 1. If you are experiencing self-test failure 704, verify the self-test limits by pressing: Utility > Instrument Information/Help Mode > Self-Test > View Test Info
- 2. Using the RPG or the up and down arrow keys, scroll to self-test 704. Press: Run Highlighted Test.
- 3. When the self-test has completed, press: View Details. The lower limits for the following tests should be:
 - a. 1-1.55 GHz lower = 0.5
 - b. 1.55-2.4 GHz; lower = 0.5
 - c. 2.4-3.2 GHz; lower = 0.5
- 4. If the self-test limits are correct, continue to troubleshoot the problem using the troubleshooting procedure.
- 5. If the self-test limits are incorrect, first verify that the instrument has firmware equal or higher then C.04.71. If yes, proceed to step (7). If not, update to the latest firmware.
- 6. If after upgrade firmware and the self-test still fail, proceed with the step (7).
- 7. Connect the instrument to LAN, then press: Utility > GPIB/RS-232 LAN > LAN Setup > LAN Config set
 - to DHCP > Proceed with Reconfiguration > Confirm Change (Instrument will Reboot).
- 8. After the instrument had power cycle, press: Utility > GPIB/RS-232 LAN > LAN Setup and record down the IP address.
- 9. Open a browser window and type in the instrument IP address/update (http://xxx.xxx.xxx/update)
- 10. Then enter the following text into the 'Manual Calibration And Self-Test Update' box.

Il "SYNTH", 14, 0.5 Il "SYNTH", 15, 0.5 Il "SYNTH", 16, 0.5 ky 11889

System Update

WARNING: Do not use this page unless specifically instructed to do so by the Service Manual or a Service Note.



- 11. Press 'Execute' button next to the 'Manual Calibration And Self Test Update'.
- 12. When the update is completed, another webpage will be displayed with the message 'Operation completed'. To finish, power cycle the instrument and verify the limits have been updated using steps 1-3 above.

Revision History:

Date	Service Note Revision	Author	Reason for Change
21 August 2013	01	PY	Update to all affected Frac-N board for this self-test failure.
14 February 2017	02	SN	Update to include all affected Frac-N board for this self-test failure applies to all instruments including units with options HCC and HAR.