

P5027A-04

Information Only Service Note

Supersedes: None

P5027A Keysight Streamline USB Vector Network Analyzer

Serial Numbers: ALL

False alarm on self-test failure on firmware revision of A.13.40.02 - DDR3 memory removal

Parts Required:

P/N Description Qty.

None

ADMINISTRATIVE INFORMATION

[[]] Calibration Required PRODUCT LINE: WN [X] Calibration NOT Required AUTHOR: Is

ADDITIONAL INFORMATION:



Situation:

Keysight P502xA (x=0/1/2/3/4/5/6/7/8) Vector Network Analyzer (VNA) firmware revision A.13.40.02 will report self-test failure on newer batch of VNAs with shipment date of early 2022 and onwards.

Background

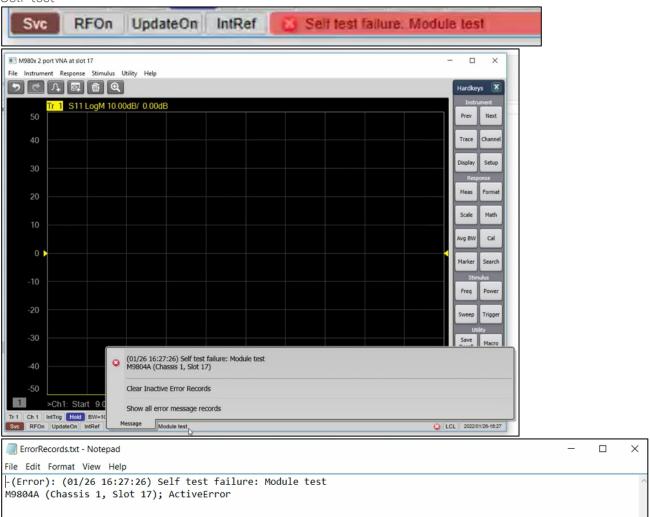
The on board DDR 3 memory in VNA is not in use since its release. With the removal of DDR 3 memory IC on newer P502xA VNA, right after firmware is launched, false alarm (self-test failure) will be reported as shown. This has no impact to VNA performance and specifications.

Similarly, firmware will report a false failure in Operator check. Shown are the error messages example on VNA firmware UI.

Impacted firmware revision: A.13.40.02

Non impacted firmware revision: A.13.70.02 and newer.

Self-test



Operator Check



Solution/Action:

Since this DDR3 memory is not in use, newer firmware revision no longer consider it as the failure. Keysight recommends keeping VNA firmware up-to-date whenever it is possible.

For users with firmware revision of A.13.40.02, Update firmware to revision A.13.70.02 or newer to resolve this false alarm on self-test.

For users with firmware revision of A.13.70.02 or newer, No action is necessary.

P502xA Vector Network Analyzer Firmware Update (Keysight.com) https://www.keysight.com/my/en/lib/software-detail/instrument-firmware-software/pxieusb-vector-network-analyzer-firmware-update-64-bit-3027357.html

Note: VNA firmware update can be easily performed by user on the intended controller PC/ embedded controller. User does not need to return controller or VNA to Keysight service center.

~ Fnd~

Revision History:

| Date | Service Note Revision | Author | Reason for Change | |
|------------|-----------------------------|--------|-------------------|---|
| 9-Feb-2022 | P5027A-04 | ls | As Published | _ |