

Information Only Service Note

Supersedes: None

P5024A 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 [X] Calibration NOT Required PRODUCT LINE: WN AUTHOR: ls

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.

Sell-le	51										
Svo	R	FOn	UpdateOn	IntRef	8 Se	it test failure	. Module	e test			
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20	7 E							Hardkeys 🔀			
s 50	<mark>Tr 1</mark> S11L	_ogM 10.0	0dB/ 0.00dB					Prev Next			
40								Trace Channel			
30								Display Setup			
								Response Meas Format			
20											
10								Scale Math			
								Avg BW Cal			
0								Marker Search			
-10								Stimulus			
								Freq Power			
-20								Sweep Trigger			
-30								Ublity			
			(01/06.16-07-06) 6-16					Save Macro			
-40		0	(01/26 16:27:26) Self tes M9804A (Chassis 1, Slot 1	.7)							
-50			Clear Inactive Error Recor	ds					_		
1	>Ch1: Star		Show all error message re	ecords							
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ErrorR	ecords.txt -	Notepad	hr							_	×
_	Format V		p								
-(Error): (01/2	26 16:2	7:26) Self tes		Module test	:					
M9804A (Chassis 1, Slot 17); ActiveError											

Operator C	Check					
0dBm		Tr 2 a2,2 Log	M 10.00dB/ 0.	00dBm		
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			ure: Module test hassis 1, Slot 17)			
		R	ок			
				1:PASS 2:PASS		
					Sto	p 30.3247 MHz

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-vectornetwork-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.

~ End~

Revision History:			
Date	Service Note Revision	Author	Reason for Change
9-Feb-2022	P5024A-04	ls	As Published