

Modification Recommended Service Note

Supersedes:
NONE

N4691D option ODC - DC to 26.5 GHz Electronic Calibration Module (ECal)

Serial Numbers: See Table 1
Manufacturing ID Number: N/A

The Problem –

On certain N4691D units with Option ODC, Reflection Tracking may exceed the specification by 0.05 dB at frequencies below 200MHz when measuring high reflective devices.

Parts Required:

None

ADMINISTRATIVE INFORMATION

ACTION	<input type="checkbox"/> ON SPECIFIED FAILURE	STANDARDS			
CATEGORY:	<input checked="" type="checkbox"/> AGREEABLE TIME	LABOR:	3.5 Hours		
LOCATION	<input checked="" type="checkbox"/> SERVICE CENTER	SERVICE:	<input type="checkbox"/> RETURN	USED	<input type="checkbox"/> RETURN
CATEGORY:	<input type="checkbox"/> ON-SITE (<i>active On-site contract required</i>)	INVENTORY:	<input type="checkbox"/> SCRAP	PARTS:	<input type="checkbox"/> SCRAP
	<input type="checkbox"/> CHANNEL PARTNERS		<input type="checkbox"/> SEE TEXT		<input type="checkbox"/> SEE TEXT
AVAILABILITY:	PRODUCT'S SUPPORT LIFE	NO CHARGE AVAILABLE UNTIL:	2 Sept 2022		
	<input checked="" type="checkbox"/> Calibration Required	PRODUCT LINE:	PLWN		
	<input type="checkbox"/> Calibration NOT Required	AUTHOR:	CT		

ADDITIONAL INFORMATION:
Affect N4691D with option ODC only

Situation:

It was identified that certain units of N4691D with option 0DC were affected by an error in the calibration algorithm. For the units affected by this calibration error, the Reflection Tracking may exceed the specification by 0.05 dB at frequencies below 200MHz. The error would only be apparent when measuring highly reflective devices at frequencies below 200MHz. Recalibration at Keysight's service center will resolve the issue and ensure optimized and accurate data is loaded into the unit. If your application does not involve taking any measurements within the impacted frequency range on highly reflective devices, you can continue to use the ECal unit with its currently characterized data. At your next calibration cycle, the unit will be recharacterized and the issue will be resolved.

Solution/Action:

1. Return the ECal unit to the nearest Keysight service center for re-calibration.
2. A new calibration report will be generated.

Table 1 Serial Number

Serial Number			
MY59410126	MY59410357	MY59410459	MY59410610
MY59410147	MY59410369	MY59410467	MY59410616
MY59410166	MY59410398	MY59410468	MY59410620
MY59410194	MY59410399	MY59410473	MY59410621
MY59410201	MY59410400	MY59410476	MY59410625
MY59410204	MY59410404	MY59410496	MY59410627
MY59410209	MY59410406	MY59410497	MY59410634
MY59410214	MY59410413	MY59410510	MY59410660
MY59410234	MY59410414	MY59410511	MY59410663
MY59410235	MY59410415	MY59410517	MY59410665
MY59410248	MY59410416	MY59410520	MY59410667
MY59410274	MY59410417	MY59410522	MY59410672
MY59410299	MY59410420	MY59410524	MY59410681
MY59410330	MY59410434	MY59410551	MY59410697
MY59410331	MY59410435	MY59410552	SG59410107
MY59410332	MY59410440	MY59410567	SG59410111
MY59410344	MY59410441	MY59410568	
MY59410348	MY59410455	MY59410569	
MY59410351	MY59410458	MY59410609	

Revision History:

Date	Service Note Revision	Author	Reason for Change
2 Sep 2021	01	Lam CT	As Published
1 Mar 2023	02	Lam CT	Update Labor Hour