

S E R V I C E N O T E

SUPERSEDES: NONE

5372A Frequency and Time Interval Analyzer

Serial Numbers: 0000A00101 / 9999A99999

1 Meg Pods (54003A) Performance tests

To Be Performed By: Agilent-Qualified Personnel

Parts Required:

Part No.	Qty.	Description
10100C	2	50 ohm Feed Through Termination
54002A	2	50 ohm pod

Situation:

The test procedure for the 5372A was written around the 50 ohm pods (54002A). All of the tolerances have been calculated using these pods. There has been a steady increase of customers using the 1 Meg pods (54003A). However, due to the fact we use the 53002A pods when checking the performance, we do not verify the customer's 53003A pods.

Continued

DATE: October 1994

ADMINISTRATIVE INFORMATION

SERVICE NOTE CLASSIFICATION:

INFORMATION ONLY

AUTHOR:	ENTITY:	ADDITIONAL INFORMATION:
JWE	0200	

Solution/Action:

If the customer sends a unit in for calibration, please calibrate the unit using the customer's pods (either the 54002A or 53003A). Here is a list of changes when using the 54003A pods:

1. Connect a 50 ohm termination (10100C) to the 54003A pod to match the impedance of the generator.
2. The frequency bandwidth spec is 300 MHz (not 500 MHz like the 54002A). Use 300 MHz instead of the 500 MHz called out in the performance test.
3. Due to the internal pod hybrid, the Peak Voltage error is 25% instead of the 20% using the 54002A.
4. Manual Trigger uses a low frequency, so testing the Manual Trigger using the 54003A pods should pass.

If a failure occurs, substitute the 54002A (50 ohm pod) for the 54003A. Now if the test passes, there could be a problem with the 54003A pod.