

**N8973A-08****S E R V I C E N O T E**Supersedes:  
NONE**N8973A Noise Figure Analyzer****Serial Numbers:**

GB39490371-- GB44460271

MY45270101-- MY45270705

SG45270101-- SG45270125

**“Microwave Noise Greater than Signal” error message on the screen****To Be Performed By:** Agilent service center or Customer**Parts Required:**

| P/N         | Description                  | Qty. |
|-------------|------------------------------|------|
| N8974-61014 | Microwave Front End Assembly | 1    |

**ADMINISTRATIVE INFORMATION**

|                                    |                                                                                                                                                    |                                                                                                                           |                                                                                                                               |
|------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|
| SERVICE NOTE CLASSIFICATION:       |                                                                                                                                                    |                                                                                                                           |                                                                                                                               |
| <b>MODIFICATION RECOMMENDED</b>    |                                                                                                                                                    |                                                                                                                           |                                                                                                                               |
| ACTION CATEGORY:                   | <input type="checkbox"/> IMMEDIATELY<br><input checked="" type="checkbox"/> ON SPECIFIED FAILURE<br><input type="checkbox"/> AGREEABLE TIME        | STANDARDS:<br>LABOR: 4 Hours(Includes Repair and Calibration)                                                             |                                                                                                                               |
| LOCATION CATEGORY:                 | <input checked="" type="checkbox"/> CUSTOMER INSTALLABLE<br><input type="checkbox"/> ON-SITE<br><input checked="" type="checkbox"/> SERVICE CENTER | SERVICE INVENTORY: <input type="checkbox"/> RETURN<br><input type="checkbox"/> SCRAP<br><input type="checkbox"/> SEE TEXT | USED PARTS: <input type="checkbox"/> RETURN<br><input checked="" type="checkbox"/> SCRAP<br><input type="checkbox"/> SEE TEXT |
| AVAILABILITY:                      | Till November 2010                                                                                                                                 |                                                                                                                           | NO CHARGE AVAILABLE UNTIL: 1 <sup>st</sup> December 2010                                                                      |
| AUTHOR: D.C.      PRODUCT LINE: 12 |                                                                                                                                                    |                                                                                                                           |                                                                                                                               |
| ADDITIONAL INFORMATION:            |                                                                                                                                                    |                                                                                                                           |                                                                                                                               |

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**Situation:**

Instruments within the listed serial range may fail and display the error message “Microwave Noise Greater than Signal”. There could be various reasons for this failure message, one of them being the Microwave Front End Assembly, N8974-60001 in the unit.

**Solution/Action:**

Agilent service centers should troubleshoot the problem. If it is found due to the Microwave Front End assembly, from the front panel of the analyzer go to [System]{ More} {Show Hardware} and check the part number for the “Microwave FE”. If it is N8974-60001, the assembly should be replaced by the kit part number N8974-61014, as mentioned in the service note and a full calibration should be performed on the instrument.