

S E R V I C E N O T E

SUPERSEDES: None

E4411A Spectrum Analyzer (Model Number ESA-L1500A)**Serial Numbers:** 0000A00000 / 9999Z99999**Gain Compression and Spurious Responses Test Procedure Modifica-****To Be Performed By:** Agilent-Qualified Personnel or Customer**Situation:**

As a result of a clarification to the Gain Compression specification and a change to the Third Order Intermodulation Distortion specification for analyzers with 75 ohm input impedances, modifications to the respective ESA-L1500A test procedures is required. These procedures are located in the Performance Verification Test section of the "ESA-L1500A User's and Calibration Guide" and affects the following versions:

E4411-90002
E4411-90018
E4411-90029

If the new procedures are not used, some A3 IF and A8 RF assemblies will be replaced unnecessarily.

continued

DATE: September 1998

ADMINISTRATIVE INFORMATION

SERVICE NOTE CLASSIFICATION:

INFORMATION ONLY

| | | |
|---------|---------|-------------------------|
| AUTHOR: | ENTITY: | ADDITIONAL INFORMATION: |
| BDT | 5320 | |



Solution / Action:

Use the test procedures in the latest revision of the "ESA-L1500A User's and Calibration Guide", part number E4411-90044 or higher, print date May 1998 or later. The modified Gain Compression test measures in a 30 kHz resolution bandwidth and drives the higher level signal only 10 dB above the reference level. The modified Third Order Intermodulation Distortion part of the Spurious Responses test uses a different directional bridge, a 1 GHz low pass filter, and measures at three frequencies, rather than just at 50 MHz.