

**4395A-19**

**S E R V I C E N O T E**

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Supersedes:  
NONE

**4395A Network/Spectrum/Impedance Analyzer**

**Serial Numbers: All**

**Method to Ensure Stable Source Power Measurements in Source Level Accuracy/Flatness Test**

This service note describes the improved test procedure to ensure stable Power Meter readings in Source Level Accuracy/Flatness test.

**Parts Required:**  
**NONE**

**ADMINISTRATIVE INFORMATION**

SERVICE NOTE CLASSIFICATION: <b>INFORMATION ONLY</b>
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ADDITIONAL INFORMATION:

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**Situation:**

In the Source Level Accuracy/Flatness Test (described in Chapter 2, Performance Tests of the 4395A Service Manual), the Power Meter exhibits a small continuous variance in measured signal power. The instability of measured signal power affects the Source Level Accuracy/Flatness test results.

**Solution/Action:**

The variance in measured signal power is caused by a periodic shutoff of source signal output in Continuous Trigger mode of operation. Since the source signal output is shut off during “fly-back” period of swept frequency measurement (even when Sweep Span is 0 Hz) , the power meter responds to the discontinuance of signal power each time a frequency sweep ends and is started by next measurement trigger.

To ensure stable power meter display readings, set Trigger mode to SINGLE at Step 3 of the Source Level Accuracy/Flatness Test as shown below:

<b>Control Settings</b>	<b>Key Strokes</b>
Center Frequency: 50 MHz	<input type="button" value="Center"/> , <input type="button" value="5"/> , <input type="button" value="0"/> , <input type="button" value="M/u"/>
Frequency Span: 0 Hz	<input type="button" value="Span"/> , <input type="button" value="ZERO SPAN"/>
Trigger Mode: Single	<input type="button" value="Trigger"/> , <input type="button" value="SINGLE"/>

The source power now is set to 0 dBm (preset value).

Manually trigger the 4395A each time the Center Frequency setting is changed.