

S E R V I C E N O T E

SUPERSEDES: 89431A-03

89431A RF Section

Serial Numbers: 0000A00000/3509A01735

RF section LO unlock failures**To Be Performed By:** Agilent-Qualified Personnel**Parts Required:**

P/N	Description
89431-69582	Exchange 600 MHz Reference Assembly

Situation:

Several recent RF section LO unlock failures have been traced to A82 Q104. In this application, the transistor is near its rated temperature limit. The biasing has been redesigned to decrease the power dissipated by Q104 and a heat sink has been added to dissipate the heat generated. Boards with date code 3841 or greater have these modifications.

Solution/Action:

When an RF section LO unlock failure occurs, verify the signals at A81 J2 and A82 J2 as described in the frequency reference troubleshooting section of the service guide. If the 100 MHz signal at A81 J2 is within the limits listed and the 600 MHz signal at A82 J2 is not then install an A82, 600 MHz Reference assembly, with date code 3841 or greater. To verify operation after installation press the following keys.

[Instrument Mode], [receiver](F6), [RF (2-2650 MHz)]

[System Utility], [single cal]

DATE: January 1999

ADMINISTRATIVE INFORMATION

SERVICE NOTE CLASSIFICATION:			
MODIFICATION RECOMMENDED			
ACTION CATEGORY:	<input type="checkbox"/> IMMEDIATELY <input checked="" type="checkbox"/> ON SPECIFIED FAILURE <input type="checkbox"/> AGREEABLE TIME	STANDARDS: LABOR 1.0 Hours	
LOCATION CATEGORY:	<input type="checkbox"/> CUSTOMER INSTALLABLE <input type="checkbox"/> ON-SITE <input checked="" type="checkbox"/> SERVICE CENTER	SERVICE INVENTORY: <input checked="" type="checkbox"/> RETURN <input type="checkbox"/> SCRAP <input type="checkbox"/> SEE TEXT	USED PARTS: <input checked="" type="checkbox"/> RETURN <input type="checkbox"/> SCRAP <input type="checkbox"/> SEE TEXT
AVAILABILITY:	PRODUCT'S SUPPORT LIFE		
AUTHOR: DWH	ENTITY: A100	AGILENT RESPONSIBLE UNTIL:	
		ADDITIONAL INFORMATION: PCO A1-9701017, A1-9809020	