E4438C-18A

S E R V I C E N O T E

Supersedes:
E4438C-18

E4438C Option 506

Serial Numbers: SG/MY45094519 to SG/MY45095446
SG/MY47270001 to SG/MY47270115

DC blocking capacitor, from RLC supplier used in above identified serial number units may cause a power drop of approximately 20dBm

To Be Performed By: Agilent-Qualified Personnel
Parts Required:

P/N	Description	Qty.
5087-1088	DC Blocking Capacitor	1

ADMINISTRATIVE INFORMATION

SERVICE NOTE CLASSIFICATION:

MODIFICATION AVAILABLE

ACTION CATEGORY:	AGREEABLE TIME	[[]] PERFORMANCE ENHANCEMENT [X] SERVICE / RELIABILITY ENHANCEMENT
LOCATION CATEGORY:	[[]] CUSTOMER INSTALLABLE [[]] ON-SITE [X] SERVICE CENTER	AVAILABILTY: EOS
AUTHOR: PYong	PRODUCT LINE: 15	
ADDITIONAL INFORMATION: Affected assemblies will be repaired under warranty.		

Agilent Technologies

September 11, 2007

Situation:
Power drop was observed on the instrument having option 506 and when operating at cold temperature (0 degree Celsius). The failure is caused by the defective DC blocking capacitor where it will show a power loss of approximately 20 dBm at low frequency setting. Repair of the assembly will be covered under warranty.

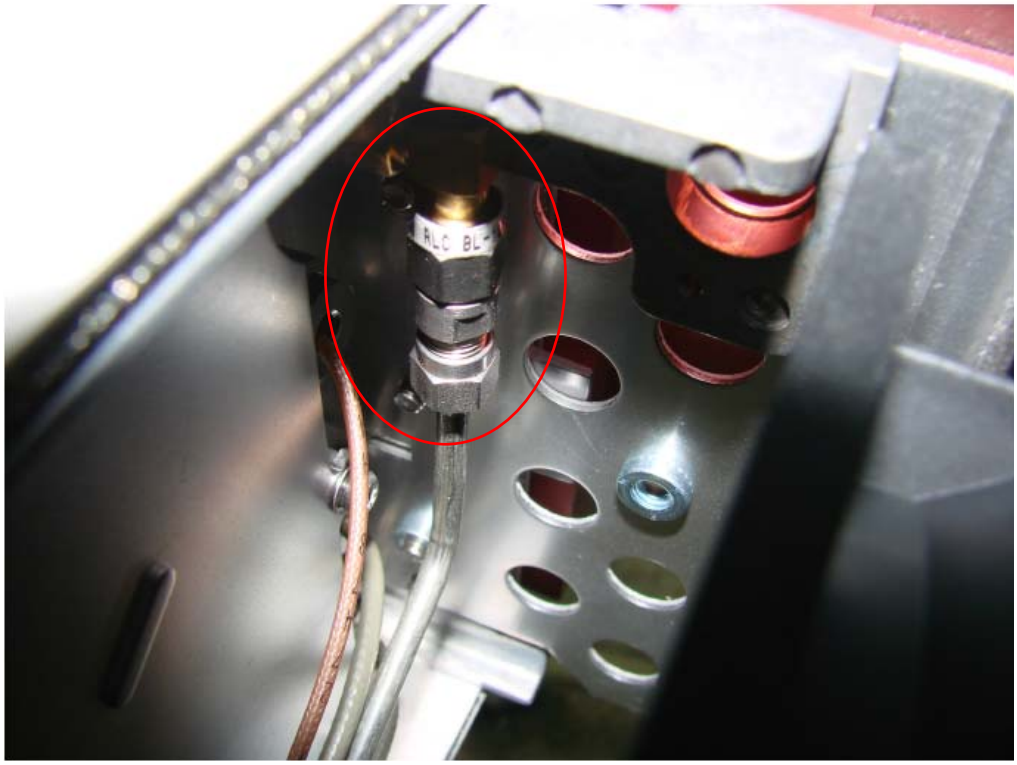
Solution/Action:
1. Repair on failure after verification that the defective part is installed inside the instrument.
2. Prevent the failure by repairing the instrument in advance. When the instrument is returned for service or calibration, check the DC blocking capacitor, by looking at the physical part. The good and defective part is shown below:-

Good part

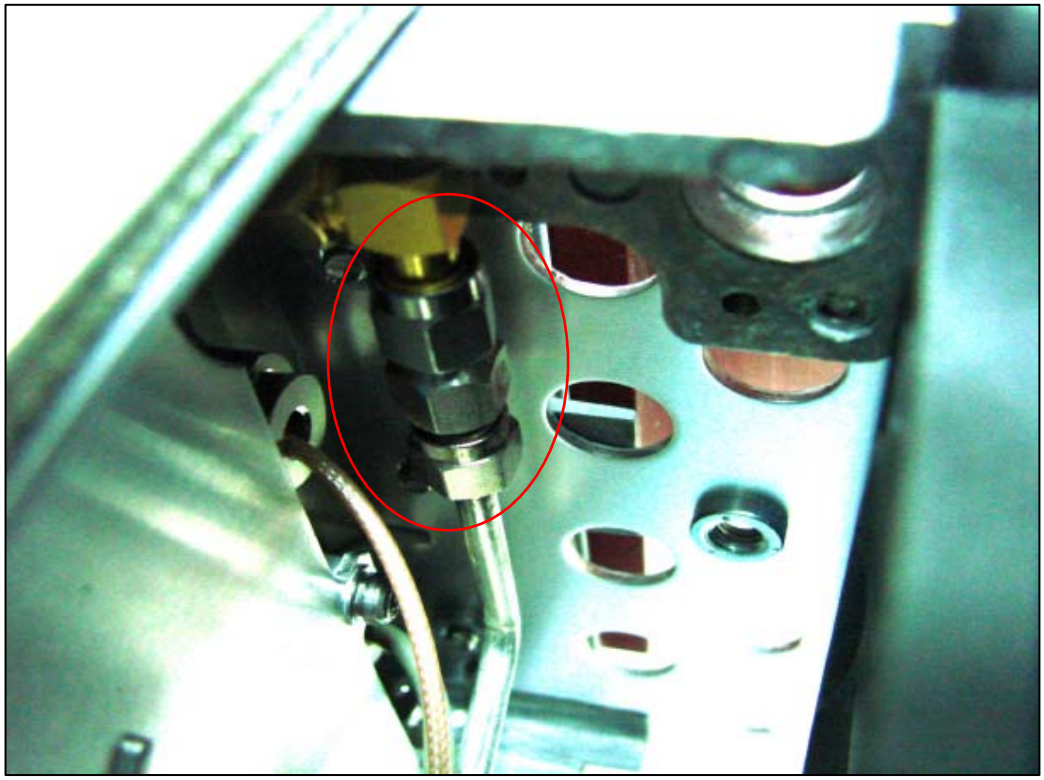
Defective part

3. Location of the DC blocking capacitor and replacement procedure. Refer to the Service Guide, Section 2 Assembly Replacement, A29 DC Blocking Capacitor. Refer to post repair procedures for A29 after replacement of blocking capacitor.

4. Here are the actual photos taken of the DC blocking capacitor in the instrument. As long as you do not break the RF path, by removing the DC blocking capacitor from the instrument, you do not have to perform the post repair procedures of A29 for the instrument having the good DC blocking capacitor.



Defective part in the instrument



Good part in the instrument