N1046A-01

Modification Recommended Service Note

Supersedes:
NONE

N1046A 75/85/100 GHz 1/2/4 Port Remote Sampling Heads for the DCA-X

Serial Numbers: US00000000-US58400000

Beginning with Serial Number US58400101, a design change has been implemented for the N1046A to allow for faster sampling when used with the N1000A DCA-X mainframe. For units with lower serial numbers, a digital board upgrade shall be performed during regularly scheduled service to enable the faster sampling rate capability.

NOTE: Upgraded units will require FlexDCA version 6.00 or later to operate. This upgrade is to be performed with customer consent only.

ADMINISTRATIVE INFORMATION

ACTION CATEGORY:	[ ] ON SPECIFIED FAILURE [X] AGREEABLE TIME	STANDARDS LABOR: 0.5 Hours			
LOCATION CATEGORY:	[ ] CUSTOMER INSTALLABLE [ ] ON-SITE (active On-site contract required) [X] SERVICE CENTER [ ] CHANNEL PARTNERS	SERVICE INVENTORY:	[X] RETURN [ ] SCRAP [ ] SEE TEXT	USED PARTS:	[X] RETURN [ ] SCRAP [ ] SEE TEXT
AVAILABILITY:	PRODUCT'S SUPPORT LIFE	NO CHARGE AVAILABLE UNTIL:	PRODUCT'S SUPPORT LIFE		
	[X] Calibration Required [ ] Calibration NOT Required	PRODUCT LINE: PL8F AUTHOR: MM			

ADDITIONAL INFORMATION:
Service for the N1046A is available in the Factory only. All service must be performed at the Factory, not at the Service Center.

KEYSIGHT TECHNOLOGIES

Parts Required:
N1045-63013 PCA, Mini Digital, 250k Qty. 1

Situation:

N1046As with the old design digital board (PN N1045-63004) installed are capable of 80 kHz sampling rate. The new design digital board (PN N1045-63013) enables the N1046A to be capable of 250 kHz sampling rate.

The maximum sampling rate available for the 86100D DCA frame is 80 kHz, therefore, no sampling rate difference is observable when the N1046A is used with an 86100D.

When used with an N1000A DCA frame, N1046As with the new digital board installed will be capable of 250 kHz sampling, and N1046As with the old digital board will be limited to 80 kHz sampling rate.

In order to provide all customers with the best possible measurement experience, Keysight recommends that all N1046As with the old digital board installed be upgraded during service to the new digital board. This upgrade is to be performed at no additional charge to the customer. The customer may be charged for other services provided, such as repair or calibration, per the usual process.

NOTE: Upgraded units will require FlexDCA 6.00 or later to operate. Older versions of FlexDCA will not recognize modules with the new digital board installed. Therefore, this upgrade should not be performed for 86100D customers who do not wish to use FlexDCA 6.00 or later. FlexDCA 6.00 is available as a free download, www.keysight.com/find/N1010A.

Solution/Action:

Units received for service, repair or calibration, shall undergo As Received testing according to the regular service procedure.

An N1046A with the old digital board (PN N1045-63004) installed and with no digital board failures found during As Received testing may be upgraded to the new digital board (PN N1045-63013) and the customer shall not be charged for parts or labor associated with upgrading the digital board.

An N1046A with the old digital board (PN N1045-63004) installed which fails As Received testing due to a failure of the digital board may be upgraded to the new digital board (PN N1045-63013) and the customer may be charged as allowed by the normal repair procedure.

In either case, customers may be charged for parts of the service unrelated to the implementation of this Service Note. For example, if a customer sends an N1046A in for calibration and the digital board is upgraded per this Service Note during the service with no other repairs being done, the customer can be charged normal calibration fees, and should not be charged for the digital board upgrade.

Identifying Units:

New digital boards are identifiable by their Board ID, "HydraPlus".

Board IDs are reported in the System Info text file, saved as part of the Support Info and Documentation Wizard .zip files.

The Board ID is also viewable in FlexDCA Service Mode.

Revision History:

Date	Service Note Revision	Author	Reason for Change
15 Oct 2018	01	MM	As Published