E6621A-01

S E R V I C E N O T E

Supersedes: NONE

E6621A - PXT Wireless Communications Test Set

Serial Numbers: ALL

Downgrading E6621A Software (Firmware) May Affect Instrument Accuracy

Parts Required:

P/N Description Qty.

NONE

ADMINISTRATIVE INFORMATION

SERVICE NOTE CLASSIFICATION:			
MODIFICATION RECOMMENDED			
ACTION CATEGORY:	X ON SPECIFIED FAILURE [[]] AGREEABLE TIME	STANDARDS LABOR: 0.5 Hours	
LOCATION CATEGORY:	X CUSTOMER INSTALLABLE [[]] ON-SITE [[]] SERVICE CENTER [[]] CHANNEL PARTNER	SERVICE [[]] RETURN INVENTORY: [[]] SCRAP X SEE TEXT	USED [[]] RETURN PARTS: [[]] SCRAP X SEE TEXT
AVAILABILITY: PRODUCT'S SUPPORT LIFE		NO CHARGE AVAILABLE UNTIL: 31-December-2013	
[[]] Calibration Required X Calibration NOT Required		PRODUCT LINE: 13 AUTHOR: FC	
ADDITIONAL INFORMATION: Service Inventory and Used Parts are unaffected as this is a software update.			

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Situation:

The I/Q calibration process for E6621A was modified during December 2012 to support new features being introduced at software (firmware) release 6.4.2.0.

During the software qualification process, it was noted that the calibration data files generated by the new process were not fully compatible with software versions older than 6.4.2.0.

If an instrument is calibrated using the new process, and is then downgraded to a version older than 6.4.2.0, performance may be affected as follows:

- Downlink (source) level accuracy may degrade by as much as 0.4 dB.
- Downlink EVM may degrade to the point where the instrument cannot connect to a device.

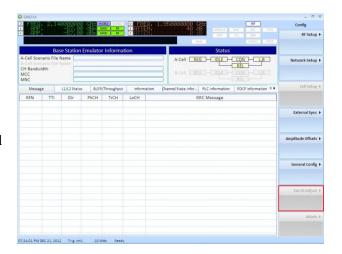
Solution/Action:

Software release 6.4.2.0 introduced a feature that allows the user to compensate for external I/Q timing skew when using the "out" and "return" BNC connectors. This feature is accessible via the following keypresses:

[Config], {Ext.IQ Adjust}

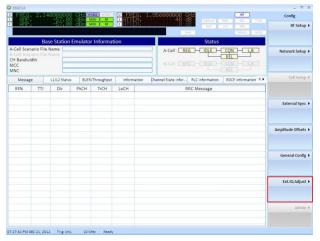
If the "Ext.IQ Adjust" softkey is greyed-out on the front panel display, this indicates that the E6621A calibration data files have been generated using the original method (i.e. predating software release 6.4.2.0).

In this instance, the software can be downgraded without affecting downlink level accuracy or downlink EVM.



If the "Ext.IQ Adjust" softkey is accessible (i.e. **not** greyed-out on the front panel display), this indicates that the E6621A calibration data files have been generated using the new method.

In this instance, the software should <u>not</u> be downgraded – doing so may degrade downlink level accuracy and downlink EVM.



NOTE:

If performance <u>has</u> been degraded because of a software downgrade, then this is <u>not</u> permanent. Performance can be recovered by re-installing software version 6.4.2.0 (or newer).