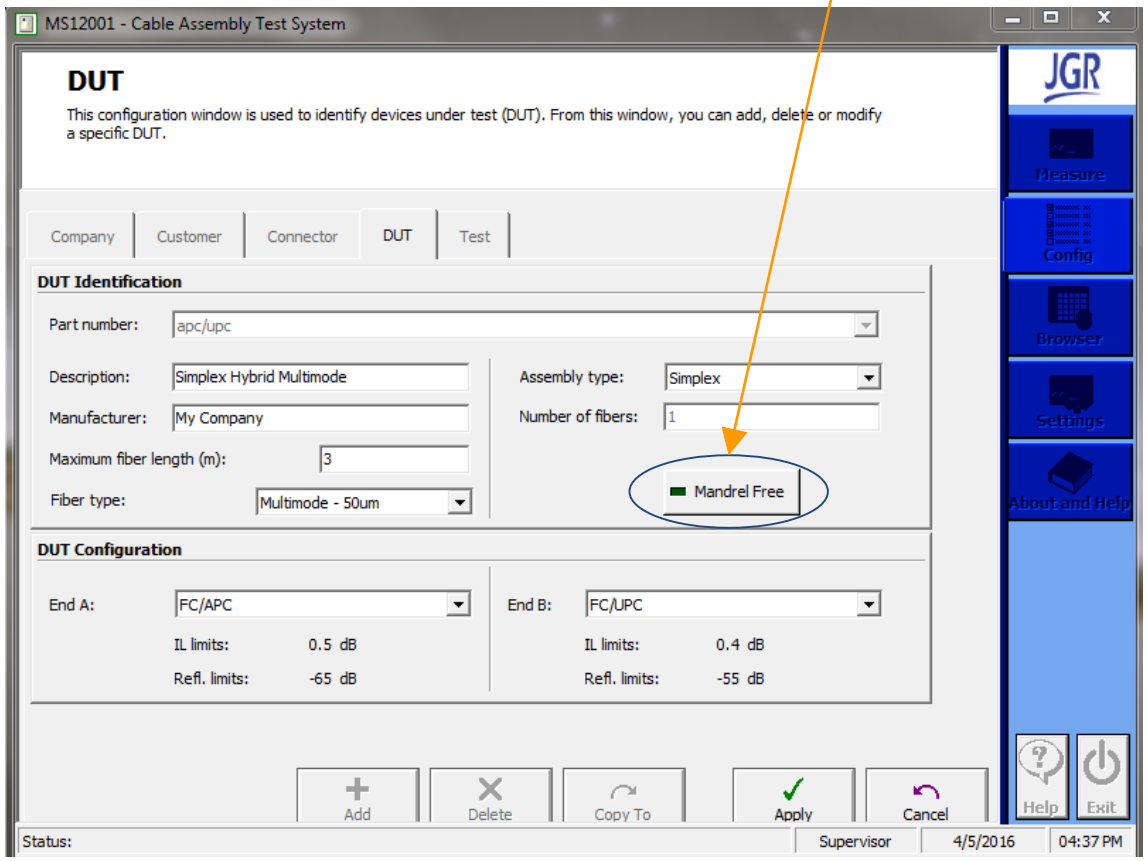
Multimode APC Testing

Testing an APC–UPC Hybrid Cable with a Multimode System

To measure a hybrid MM DUT, setup the DUT Config as shown. Make sure to turn off the ‘Mandrel Free’ option.



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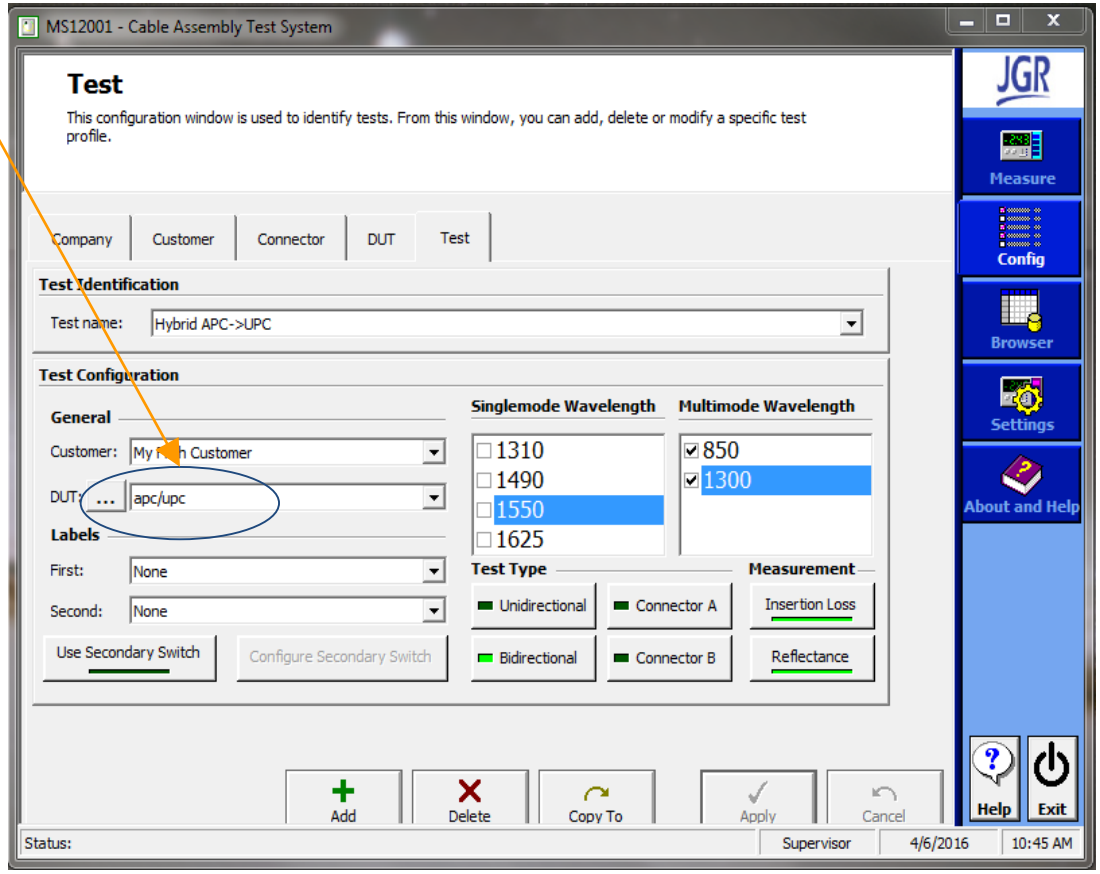
Next set up a bidirectional test as shown using the DUT you created in the previous step.



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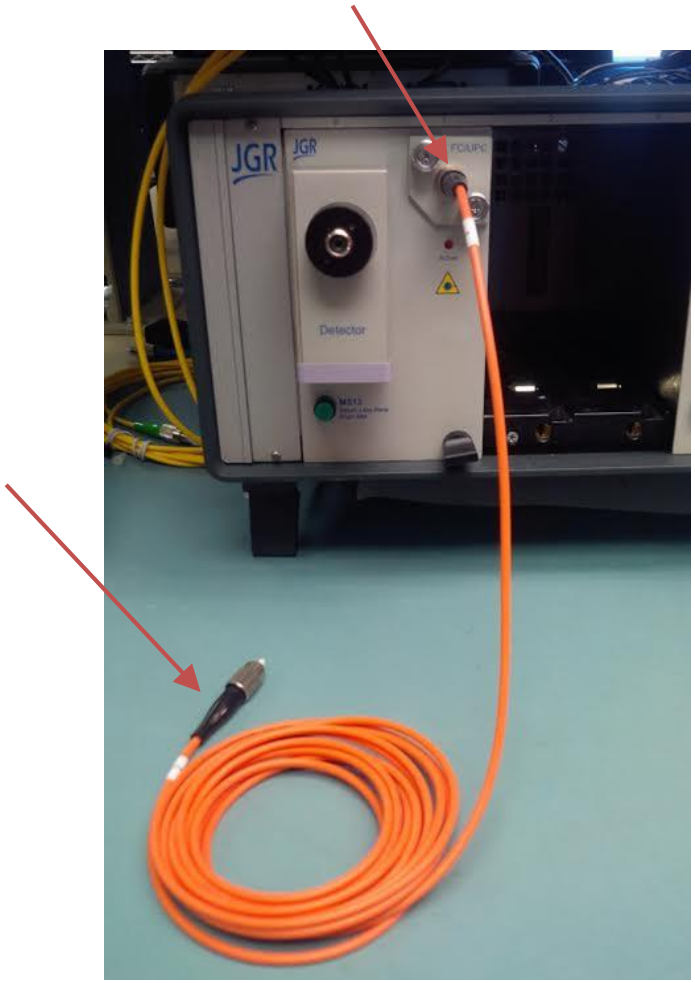

- First we will measure the UPC Connector (this will be End A).
- Connect a UPC-UPC MTJ to the MS12 output. Leave the end disconnected as shown.

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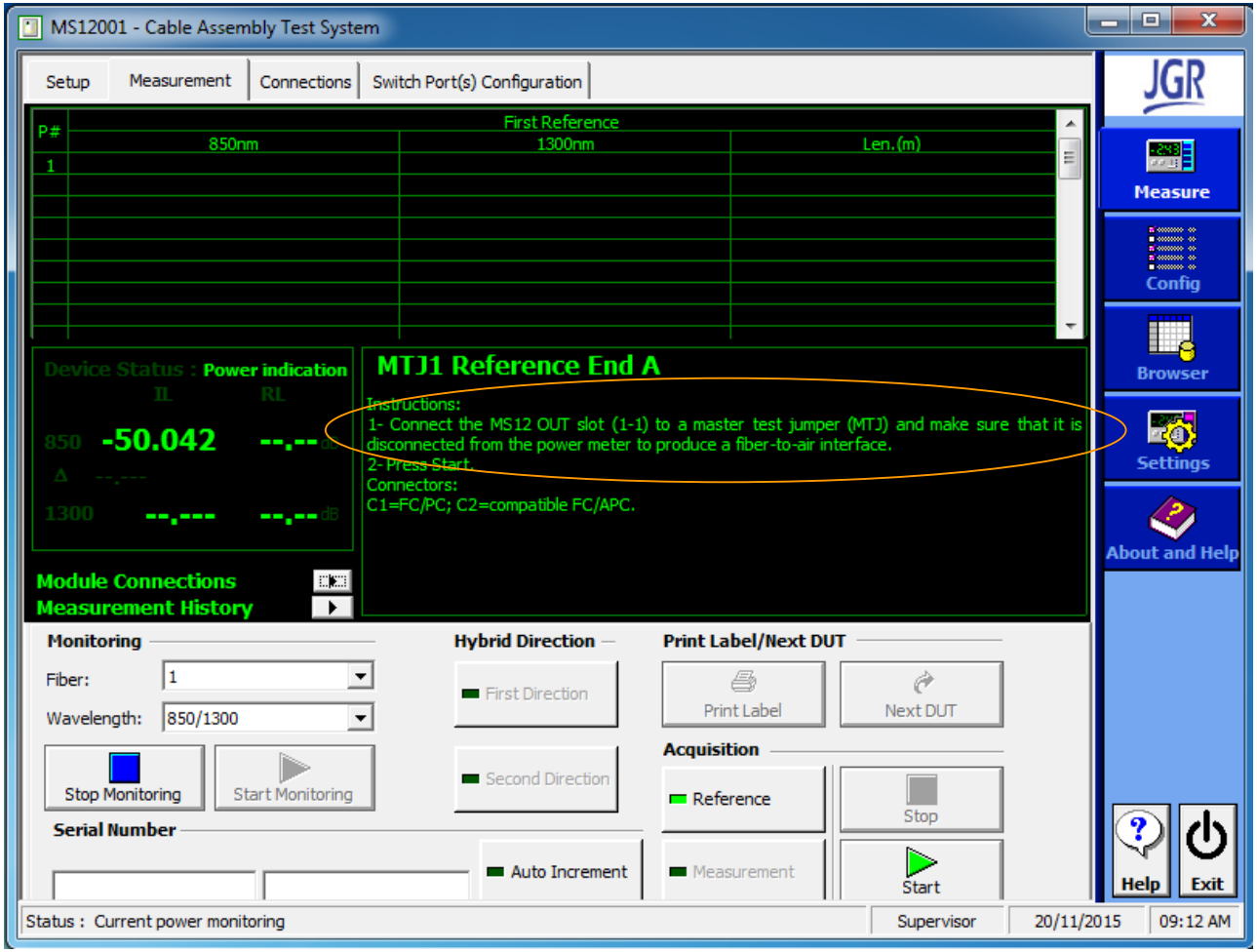

Start part 1 of the reference with the **UPC–UPC** MTJ disconnected from the detector to produce a fiber-to-air interface (as shown on the previous page).

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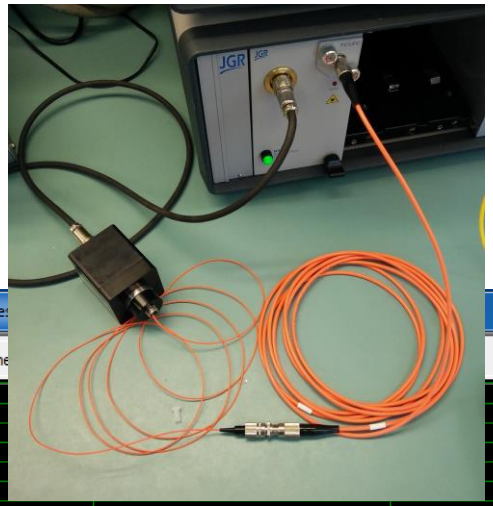

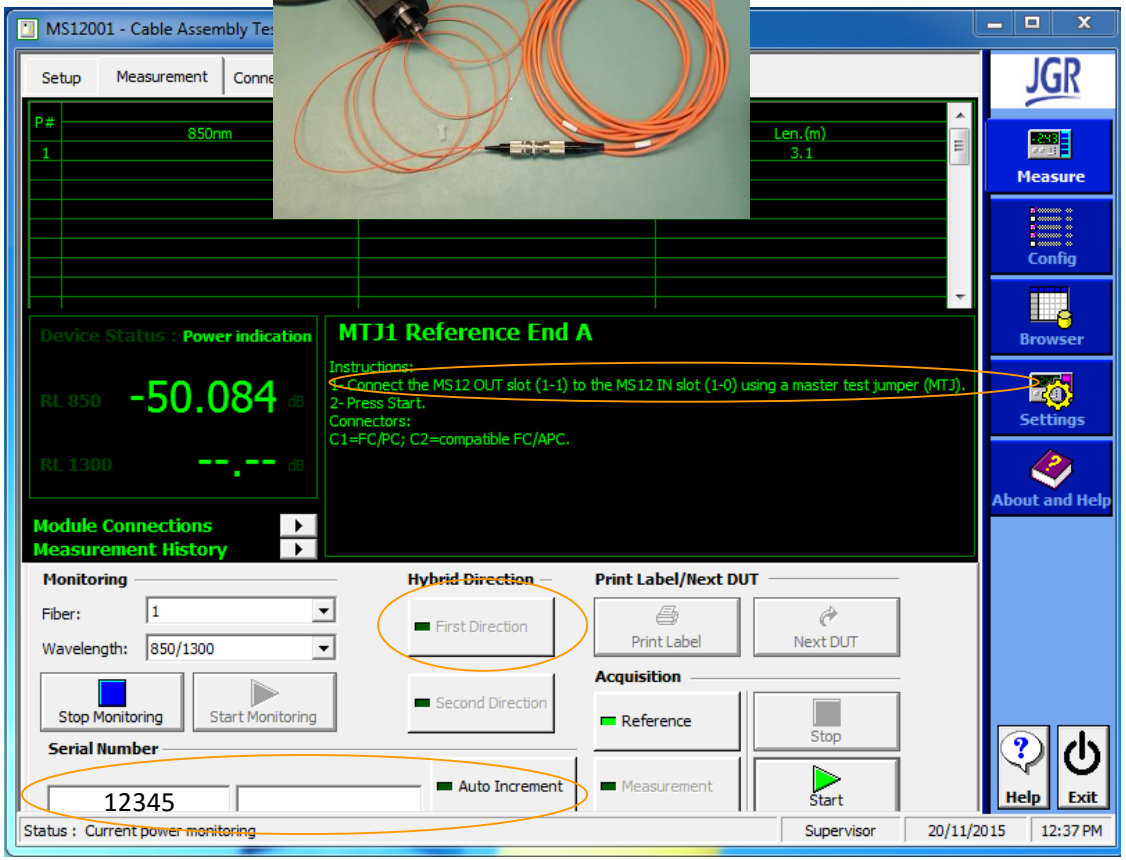

- Once part 1 is done, the software will pause and ask you to connect the MTJ to the detector.
- Do this. Then click ‘Start’ to complete part 2 of the reference.
- You are now able to connect the DUT as shown and complete the ‘First direction’ (End A) tests for a group of cables.
- Don’t forget to assign a serial number and use the ‘*Autoincrement*’ function.

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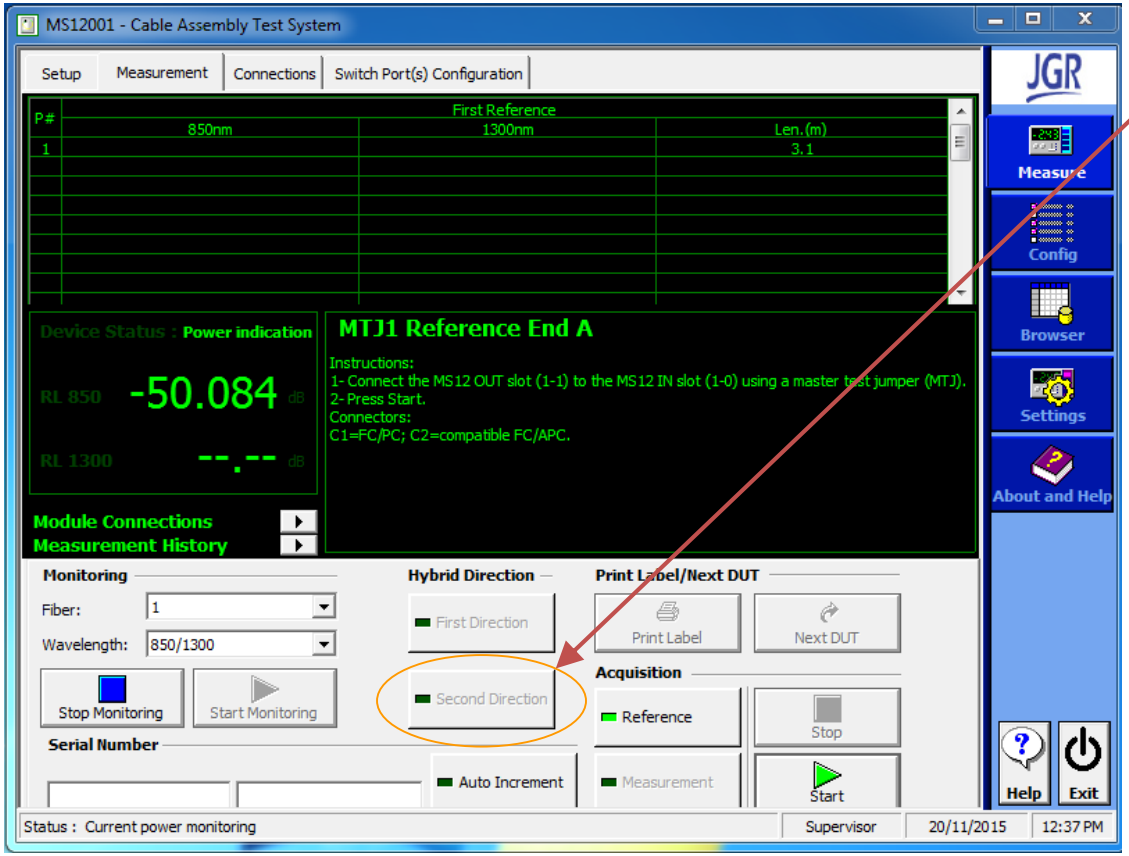

- Once you have tested the UPC side of a batch of cables click ‘Second Direction’.
- This will prompt you to perform a second reference in order to test the APC side of the cables. (See next slide for instructions).

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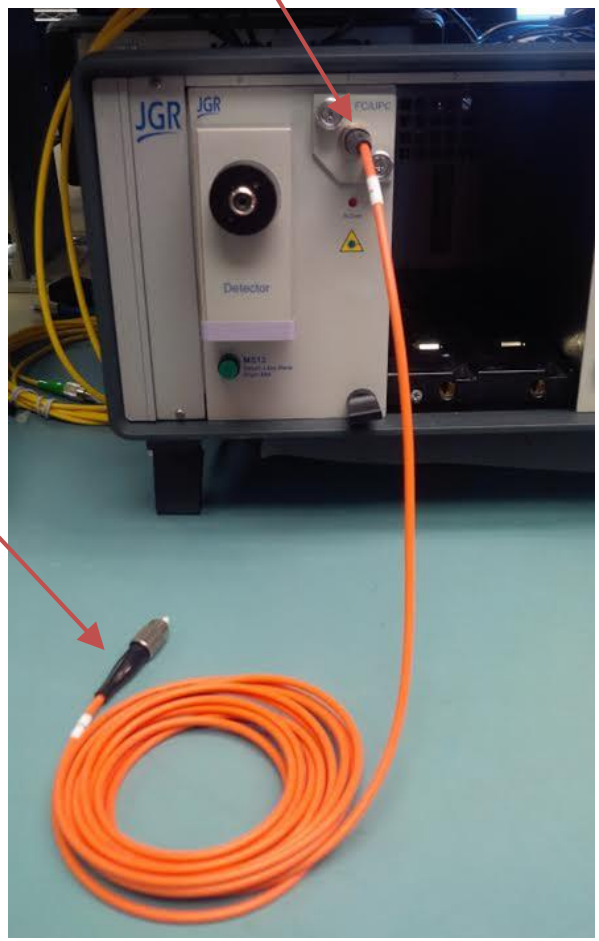

In order to measure the MM APC connector you must perform the first step of the reference with a ***CLEAN*** 3m UPC-UPC MTJ disconnected from the detector as shown.

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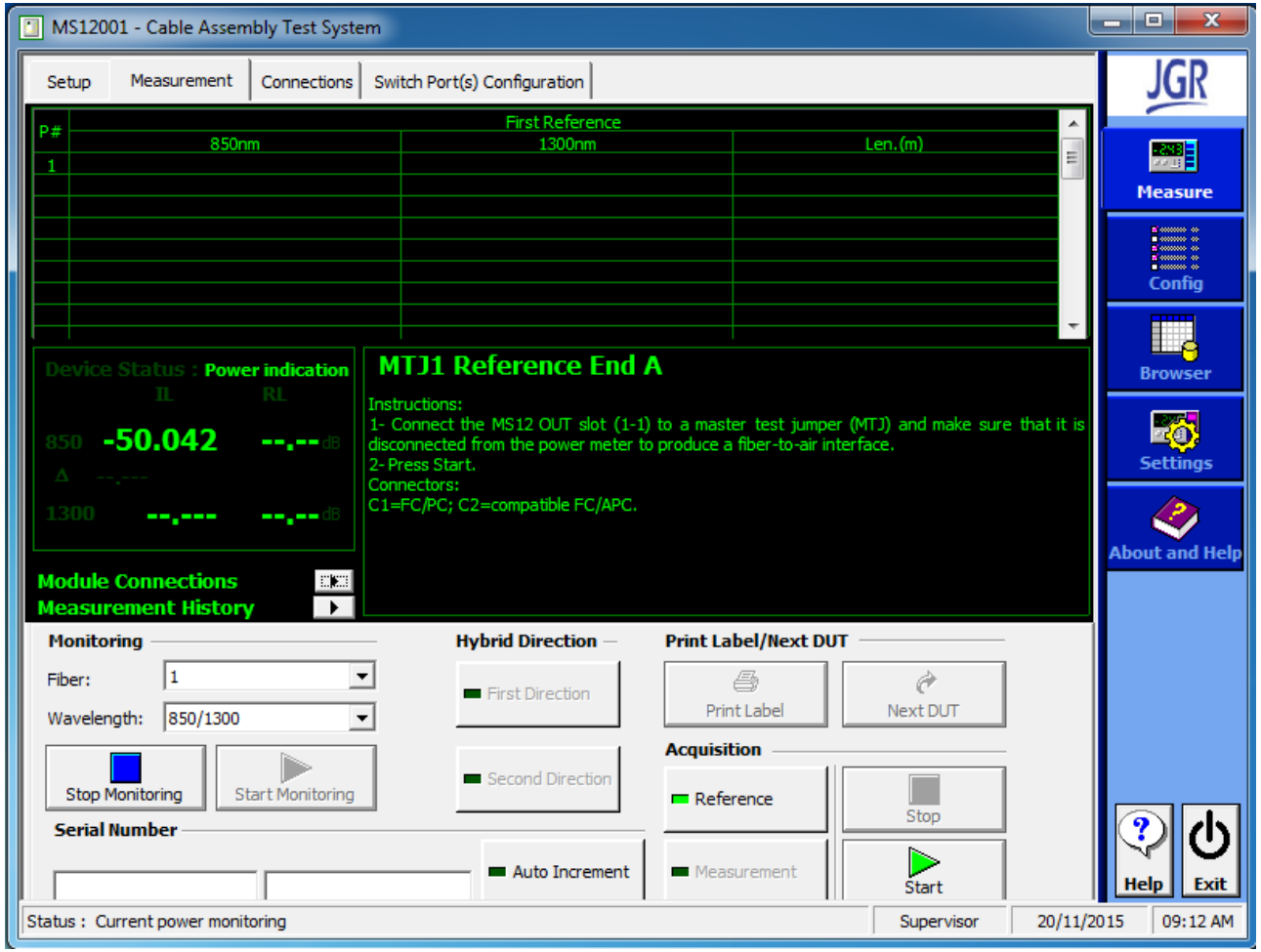
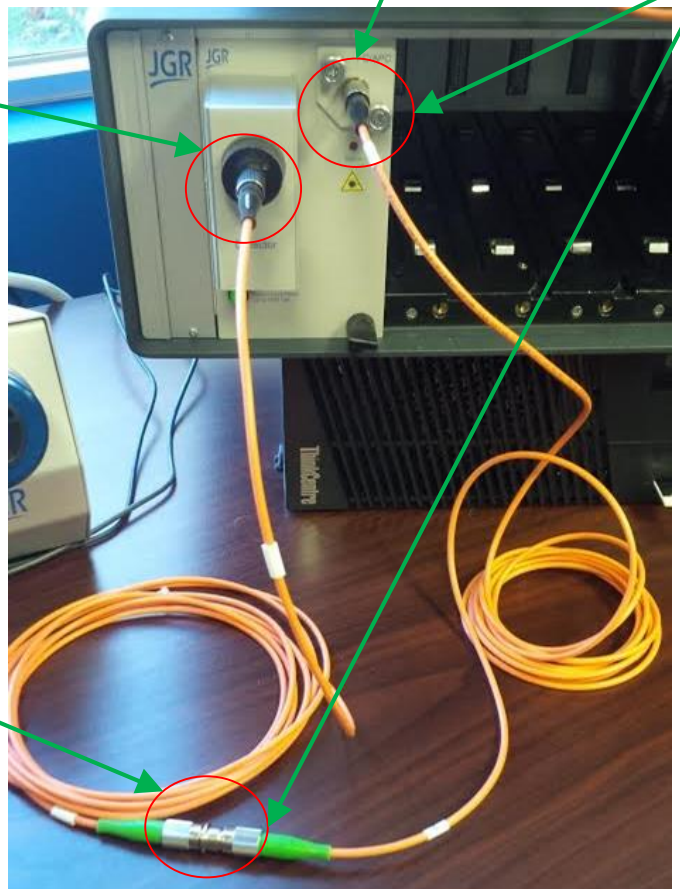


Start part 1 of the reference with the **UPC–UPC** MTJ disconnected from the detector to produce a fiber-to-air interface (as shown on the previous page).

Testing an APC–UPC Hybrid Cable with a Multimode System

- Once part 1 is done, the software will pause and ask you to connect the MTJ to the detector.
- At this point, *disconnect* the entire UPC-UPC MTJ and ***replace*** it with a similar 3m UPC-**APC** MTJ connected as shown here.
- Ensure that the connections are ***CLEAN.***
- Click ‘Start’ to complete part 2 of the reference.

Testing an APC–UPC Hybrid Cable with a Multimode System



- After the reference is complete you may now connect the APC end of your DUT to the MTJ and perform a measurement.
- The serial numbers will automatically decrement again so that you can match up all of the End B measurements with the correct End A measurement.
- Note that your DUT must be >1.7m.