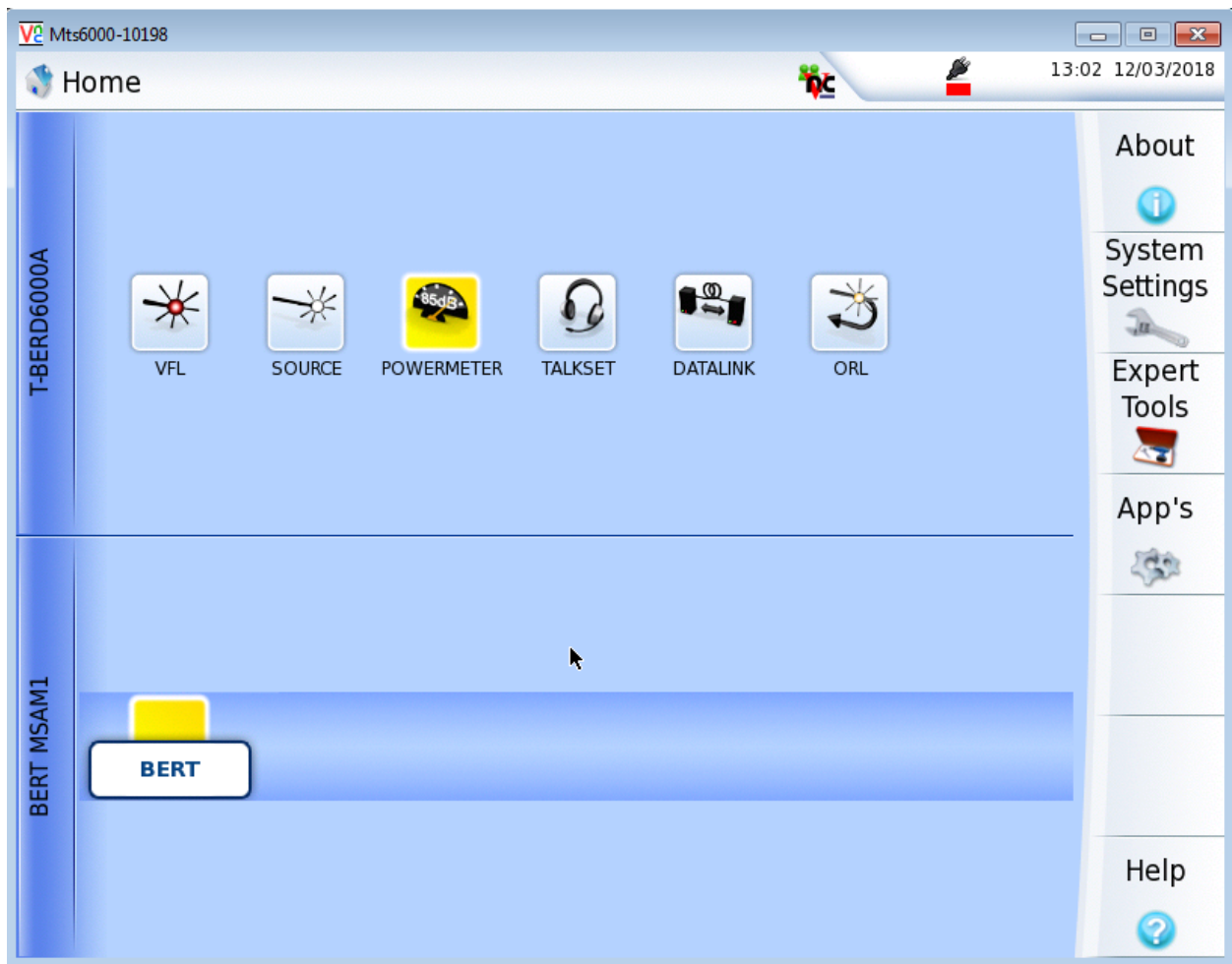
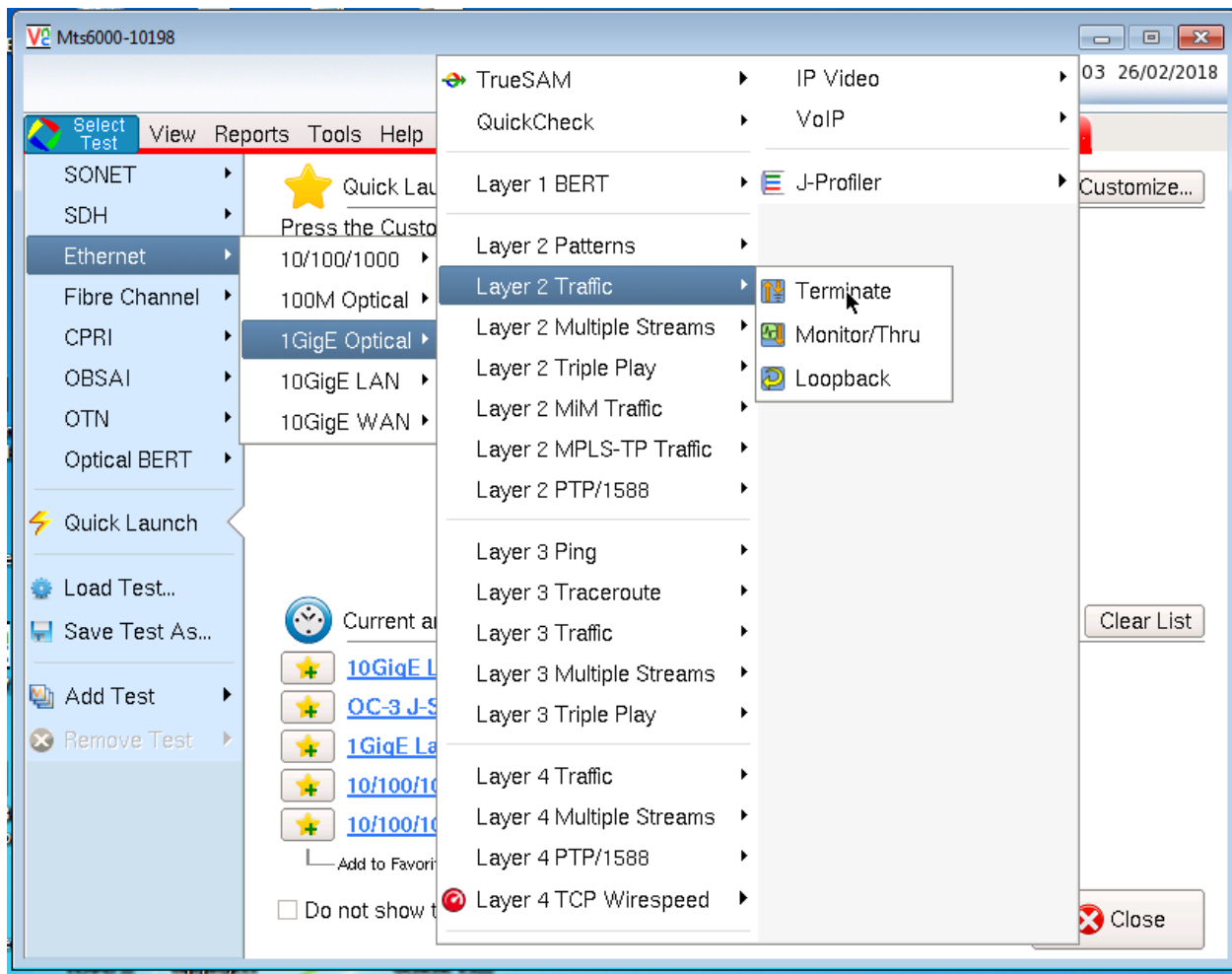


## Setting up the T-BERD®/MTS6000A Platform for a 1GigE Optical Ethernet Layer II Setup Local Loopback MAC (Swap)



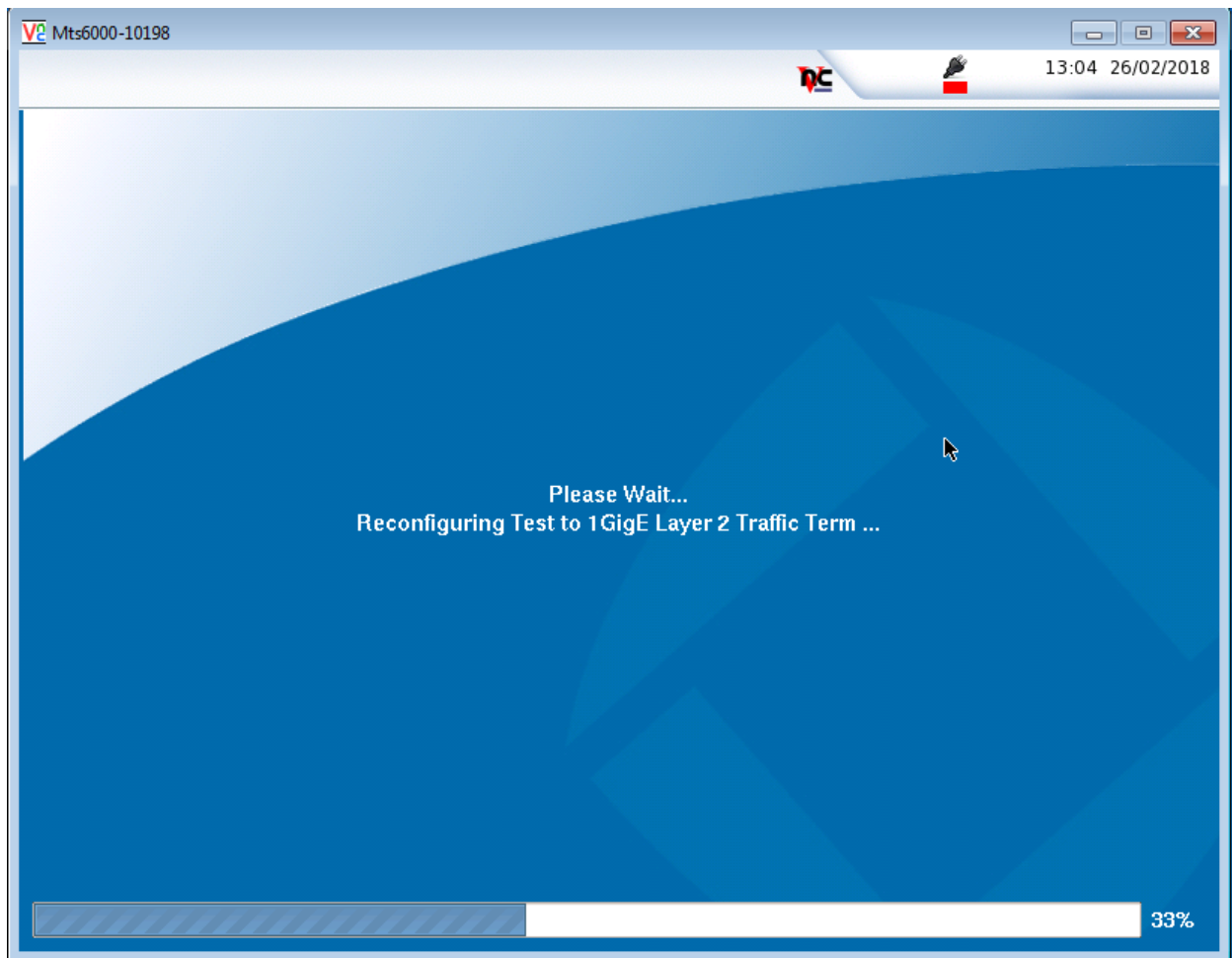
1. From the Home Menu Select the System soft key and verify that your Bert module is on (Yellow) and Select the Setup Soft key

## Setting up the T-BERD®/MTS6000A Platform for a 1GigE Optical Ethernet Layer II Setup Local Loopback MAC (Swap)



**2. Select Test and select Ethernet 1GigE Optical Layer 2 Traffic Terminate**

## Setting up the T-BERD®/MTS6000A Platform for a 1GigE Optical Ethernet Layer II Setup Local Loopback MAC (Swap)



3. The Test will launch 1 GigE Layer 2 Traffic Term

## Setting up the T-BERD®/MTS6000A Platform for a 1GigE Optical Ethernet Layer II Setup Local Loopback MAC (Swap)

The screenshot shows the T-BERD/MTS6000A software interface. The main window title is "tb5800-8a539d:0". The interface includes a menu bar with "System", "Tests", "View", "Reports", "Tools", and "Help". A red banner at the top indicates "Port 1: 1GigE Layer 2 Traffic Term". Below this, the test is running, showing "Level (dBm)" and "Freq Dev (ppm)" as "--" and a "Running" status with a play button icon and a timer at "8m:07s".

The configuration section shows "Ethernet" selected, with "Payload" set to "Traffic" and "LBM/LTM" set to "256". The "Auto Neg." checkbox is checked, and "Test Mode" is set to "Traffic".

The "Summary" section on the left lists various test parameters, with "Signal Present" and "Signal Loss Seconds" highlighted in red. The "Summary" table shows:

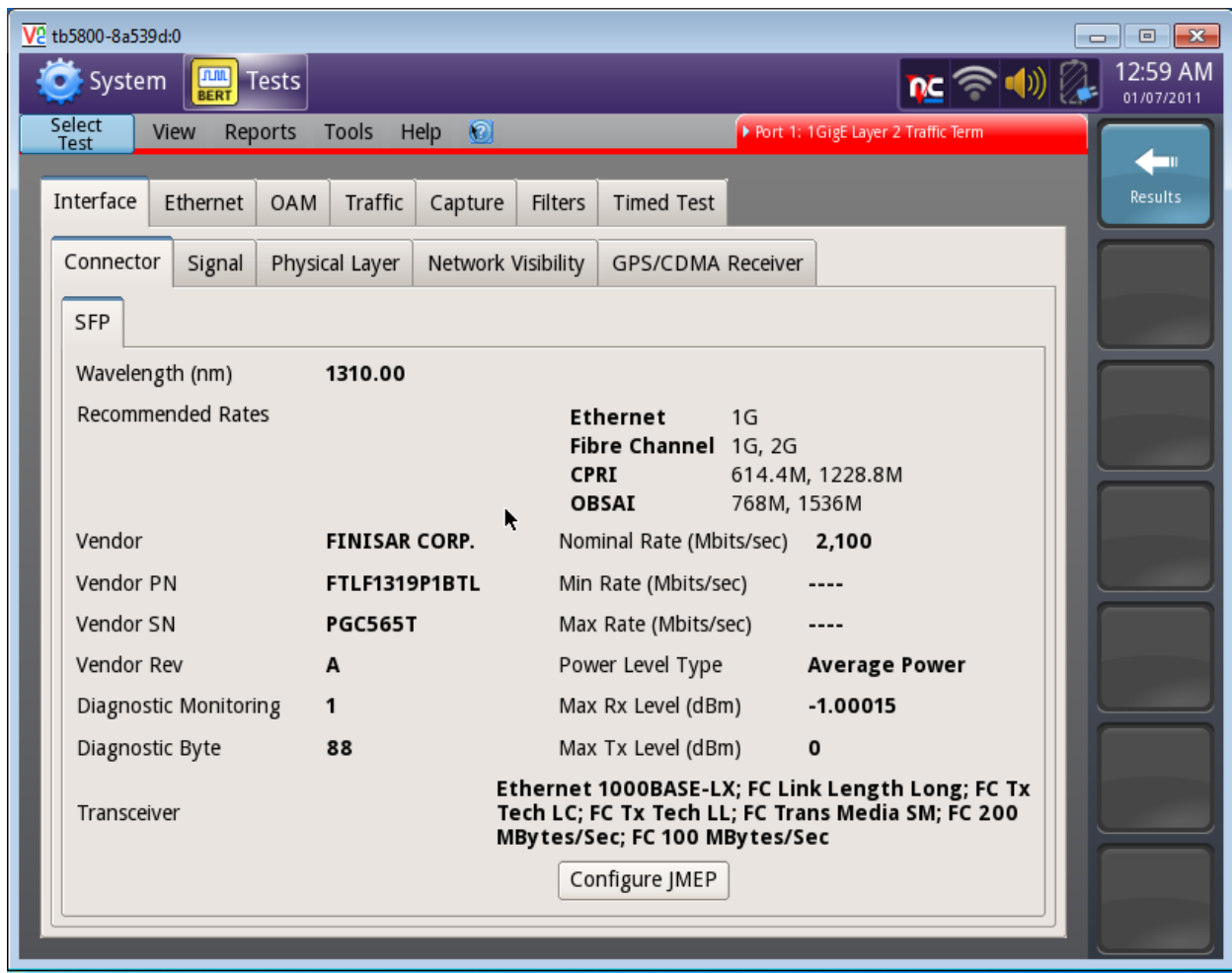
Summary	Status
Signal Present	OFF
Signal Loss Seconds	486

The "Graphs" section shows a line graph of "Errors" over time, with a legend for "FCS Errored Frames", "Runts", "Jabbers", "OoS Frames", "Bit Errors", and "Acterna Payload Errors". The graph shows a low error rate over the time interval "00:50:51" to "00:59:11".

At the bottom, there are controls for "Laser" (set to "Off"), "Actions", "Service Disruption", "Errors", "OAM", and "Capture". The "Laser Off" button is visible. The "Clock Source" is set to "Internal" and "Freq Offset (ppm)" is set to "0".

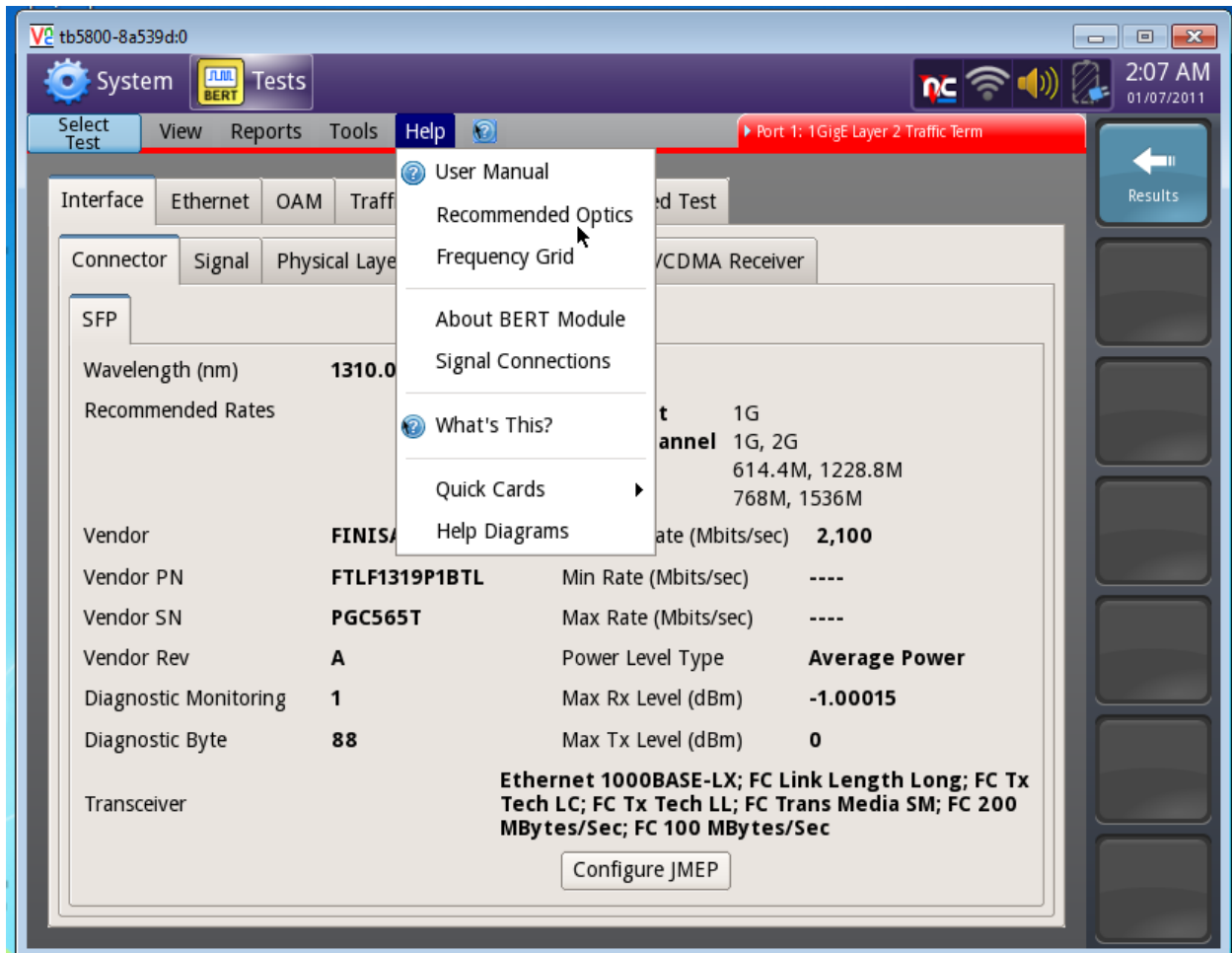
4. From the Main Menu Summary Results Screen Select Setup

## Setting up the T-BERD®/MTS6000A Platform for a 1GigE Optical Ethernet Layer II Setup Local Loopback MAC (Swap)



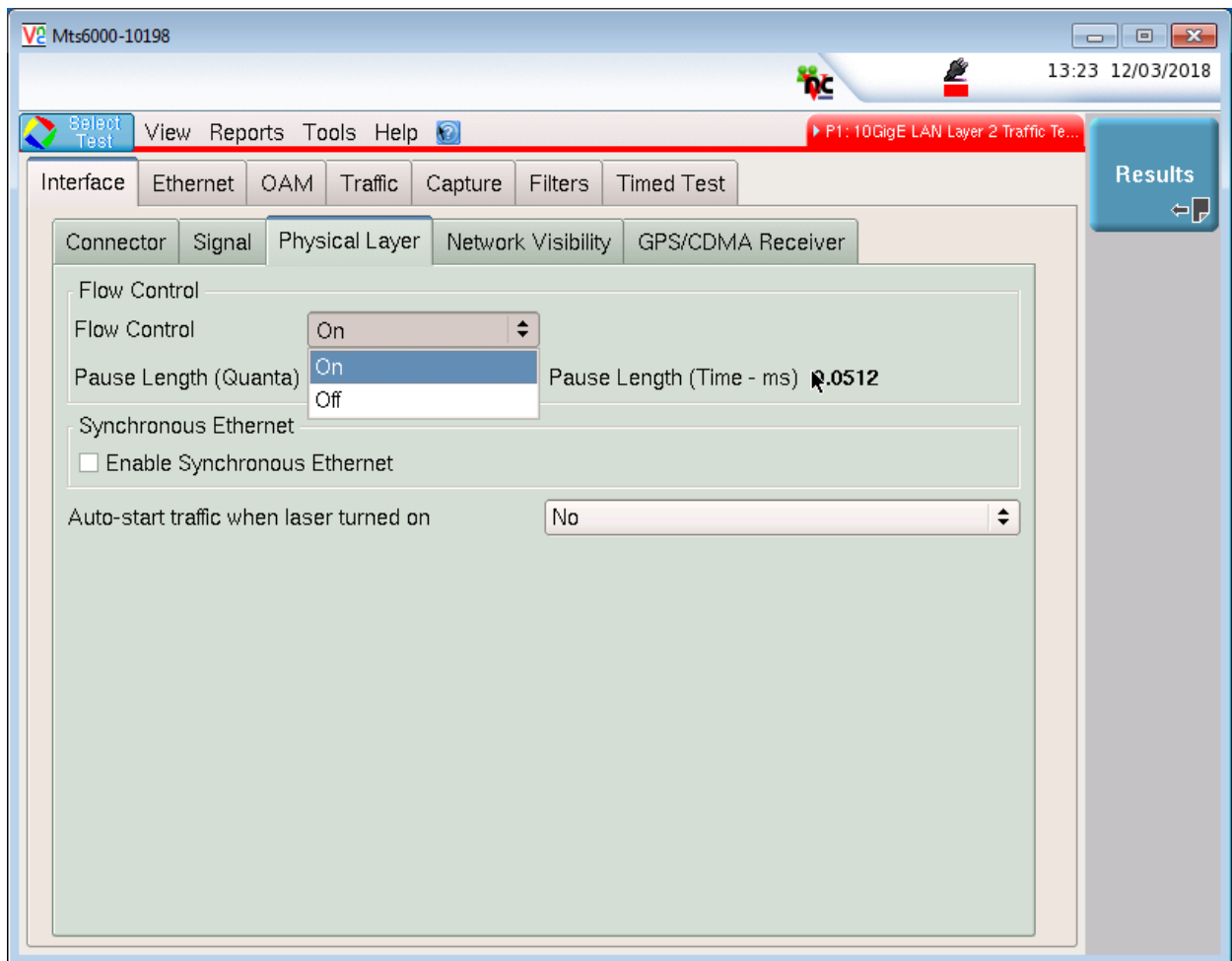
5. Select Interface and Connector verify that your SFP is a 1310 for Single mode or check the circuit order to see if the circuit requires a Multi Mode 850 SFP and Select Results

## Setting up the T-BERD®/MTS6000A Platform for a 1GigE Optical Ethernet Layer II Setup Local Loopback MAC (Swap)



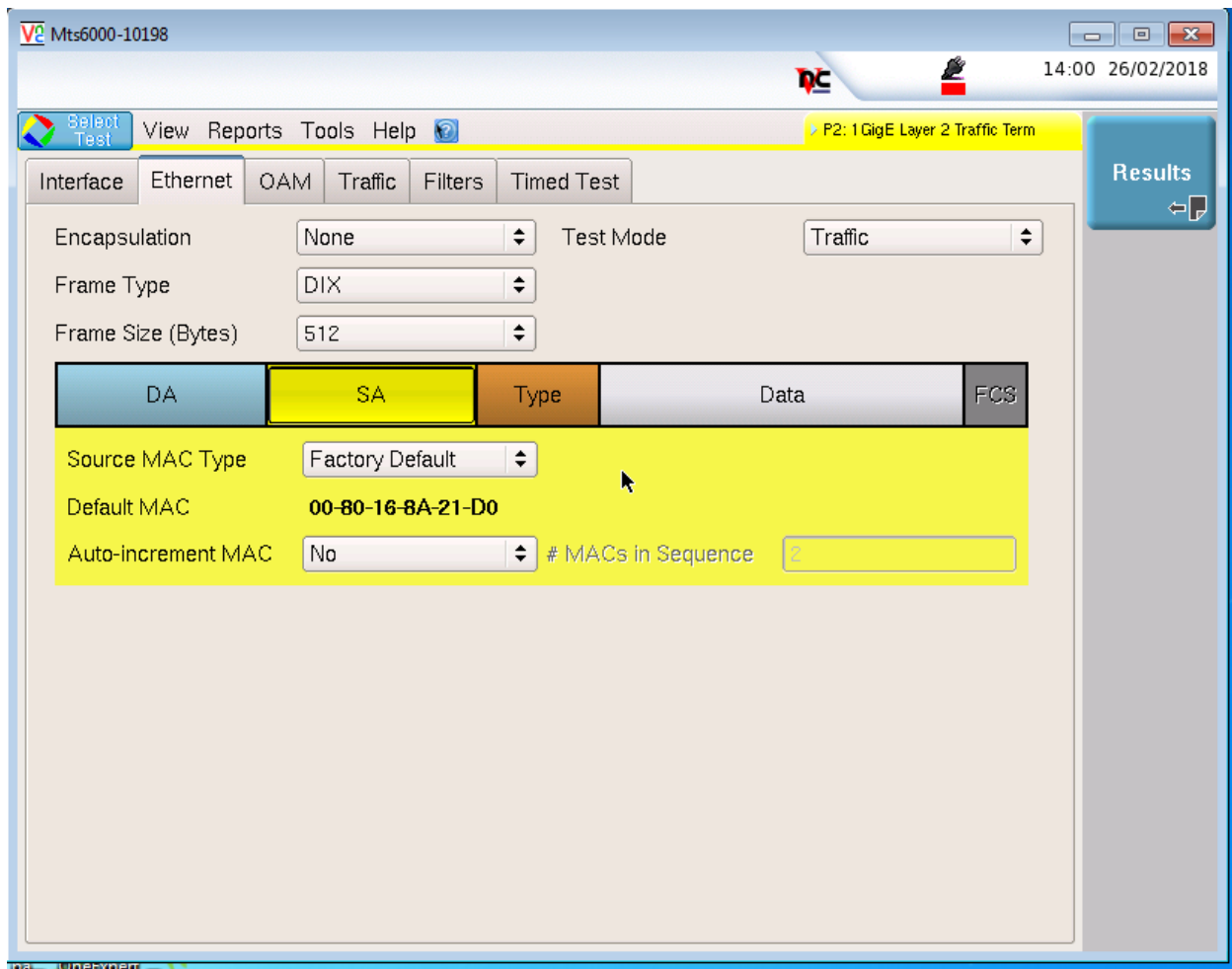
6. A List of Recommended Optics can be found selecting Help and Recommended Optics

## Setting up the T-BERD®/MTS6000A Platform for a 1GigE Optical Ethernet Layer II Setup Local Loopback MAC (Swap)



**7. Select the Physical Layer tab verify your Auto negotiation (Check Your Work Order Auto Negotiation and select On or Off for this Example Auto Negotiation is On**

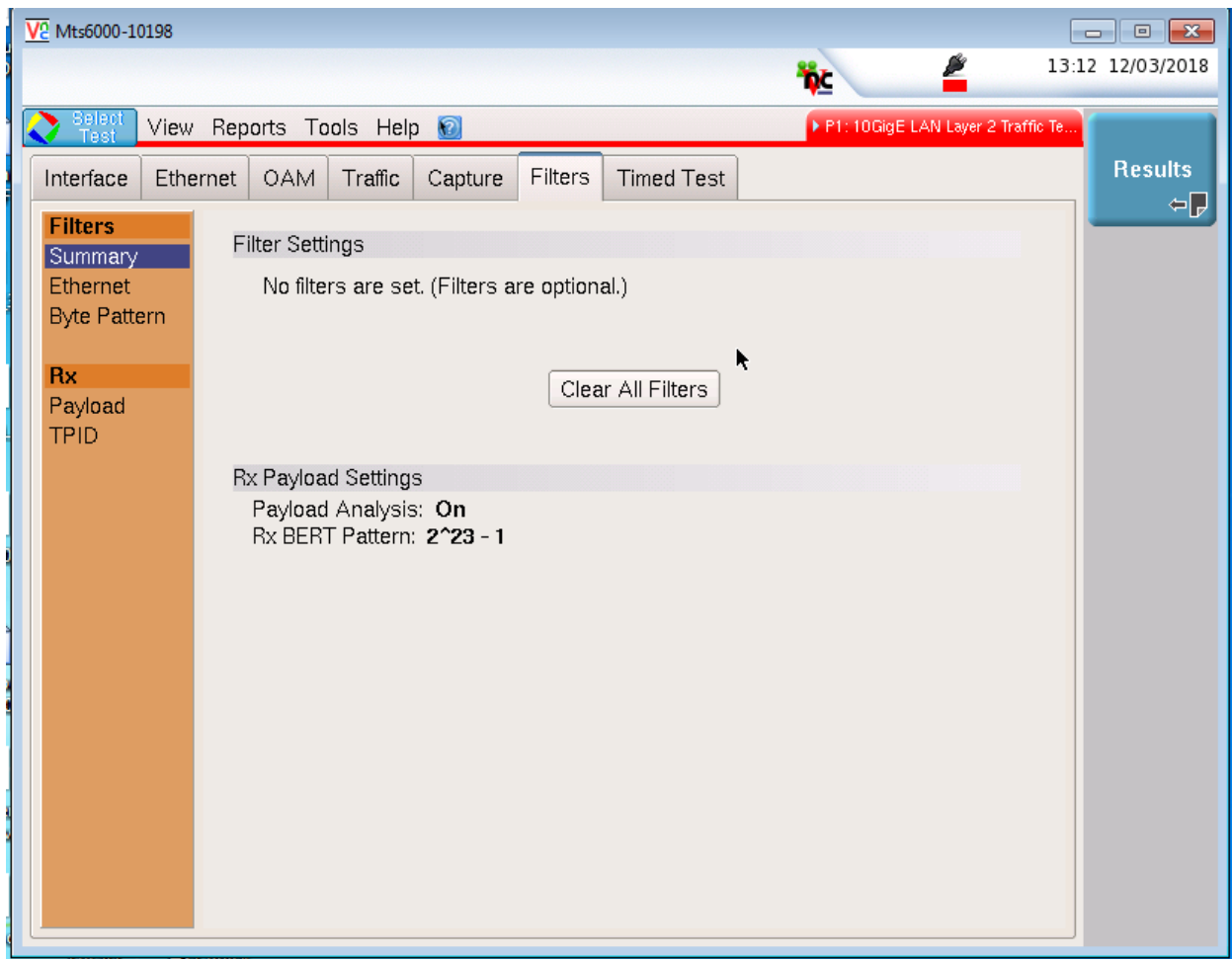
## Setting up the T-BERD®/MTS6000A Platform for a 1GigE Optical Ethernet Layer II Setup Local Loopback MAC (Swap)



7. Select the Ethernet tab Encapsulation None Frame Type is DIX Frame Size is 512 and Select SA give the CO your Default MAC address (Note: IF a VLAN TAG is required Select Encapsulation and Select VLAN Enter your ID PIR is 0). Select Results

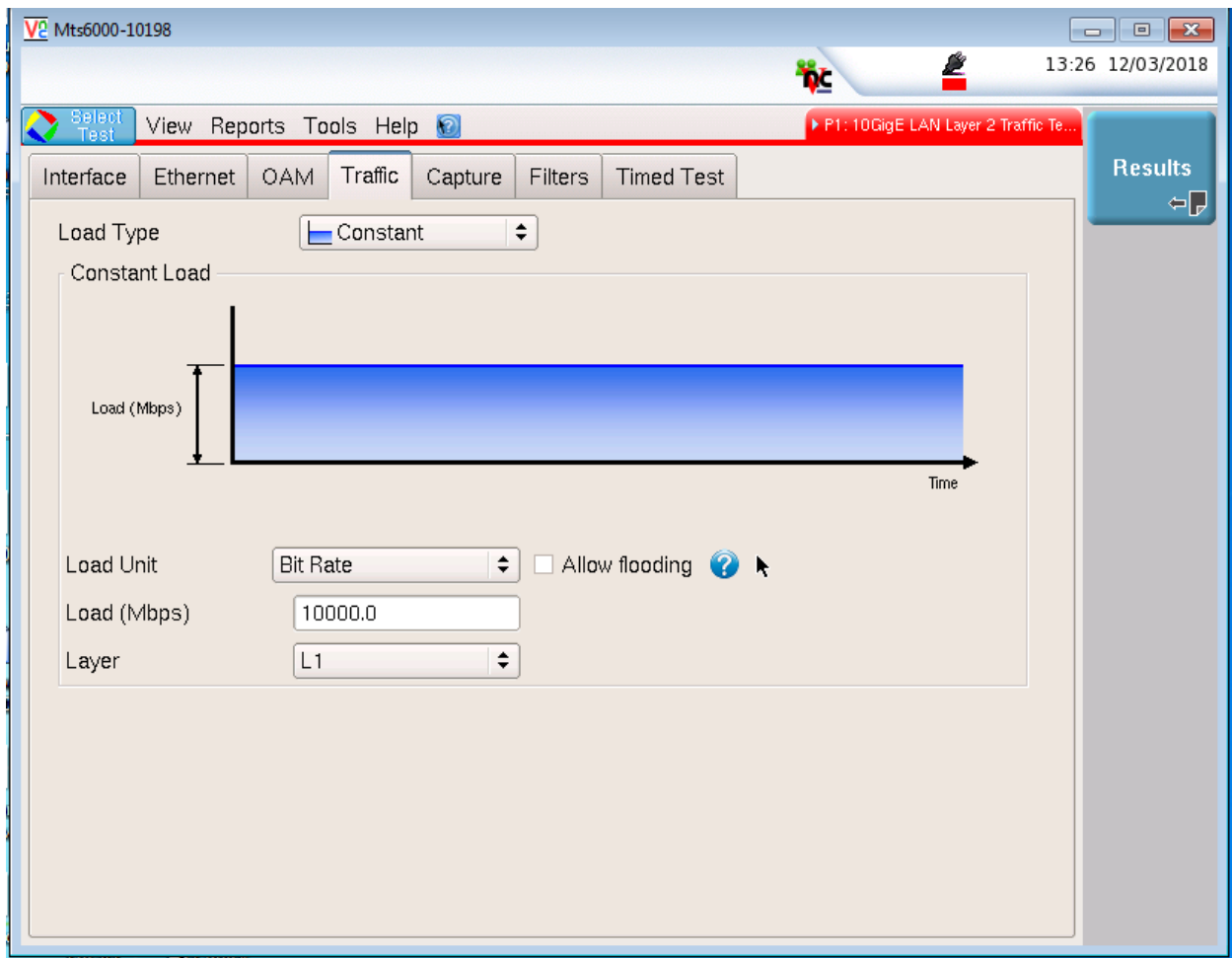


## Setting up the T-BERD®/MTS6000A Platform for a 1GigE Optical Ethernet Layer II Setup Local Loopback MAC (Swap)



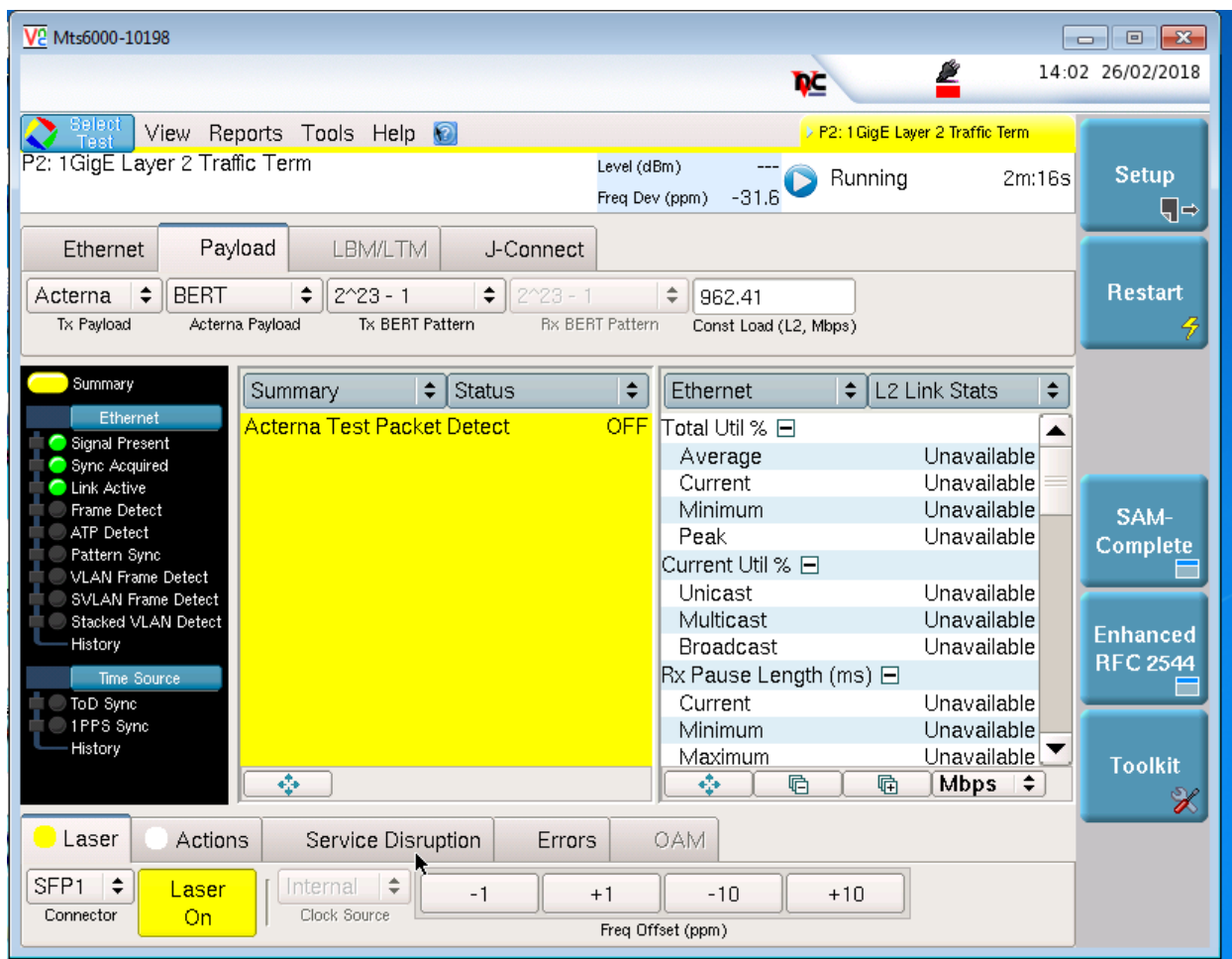
9. Select the **Filters** tab and **Summary** and **Clear All Filters** and then select **Results**

## Setting up the T-BERD®/MTS6000A Platform for a 1GigE Optical Ethernet Layer II Setup Local Loopback MAC (Swap)



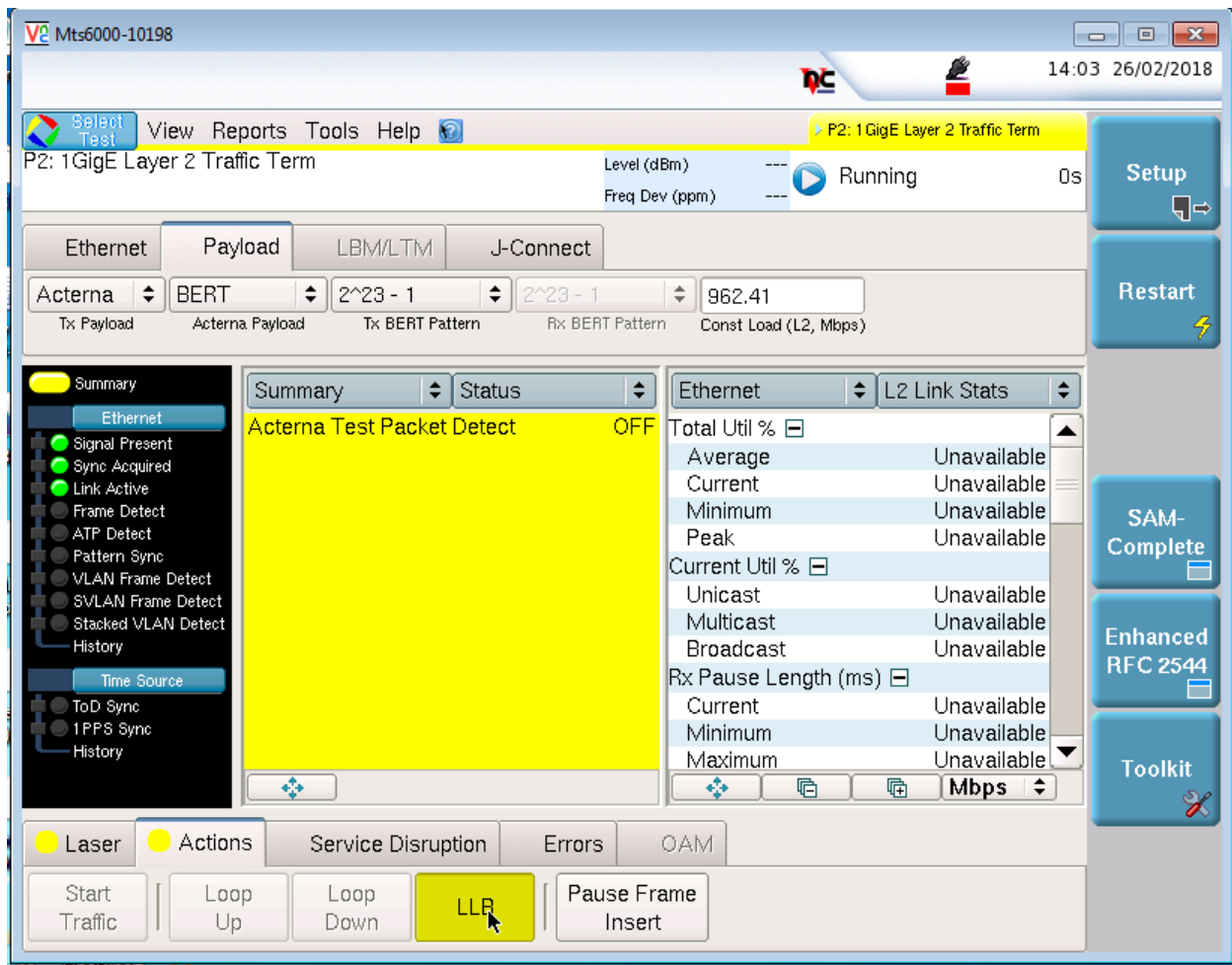
**10. Select Traffic verify that your Load Type is Constant and that your Load Unit is Bit Rate Load (Mbps) 1000.0 Layer 1 Select Results**

## Setting up the T-BERD®/MTS6000A Platform for a 1GigE Optical Ethernet Layer II Setup Local Loopback MAC (Swap)



**11. Select Laser and turn on our Laser it will be Yellow Signal, Present, Sync Acquired and Link Active will be Green**

## Setting up the T-BERD®/MTS6000A Platform for a 1GigE Optical Ethernet Layer II Setup Local Loopback MAC (Swap)



**12. Verify you have a Green Sync Present Sync Acquired, Green Link is Active and Select Actions and then select LLB CO will Run the RFC-2544 test. This will put the unit into loopback and will transmit out any traffic it receives and do a MAC swap in the process.**