

Quick Card

ONA-800

Viewing GPS Satellite Information in the ONA-800

This quick card describes how to view GPS satellites and GPS signal strength using the ONA-800 unit.

Equipment Requirements:

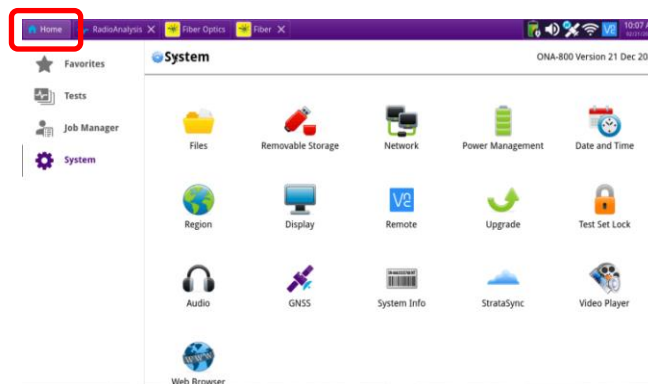
- ONA-800 Unit
- GNSS software license
- GPS antenna

Synchronization Instructions:

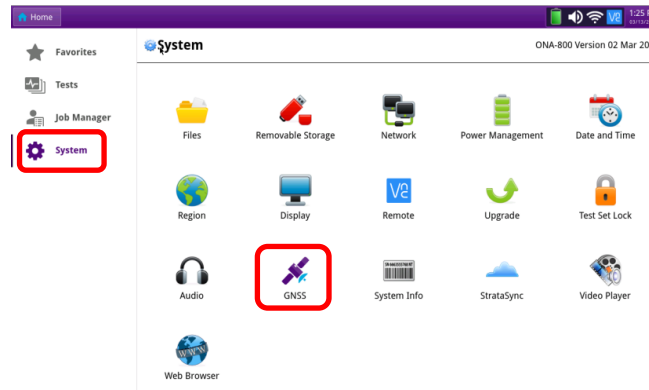
1. Connect the external GPS antenna or the cell site antenna to the port shown below.



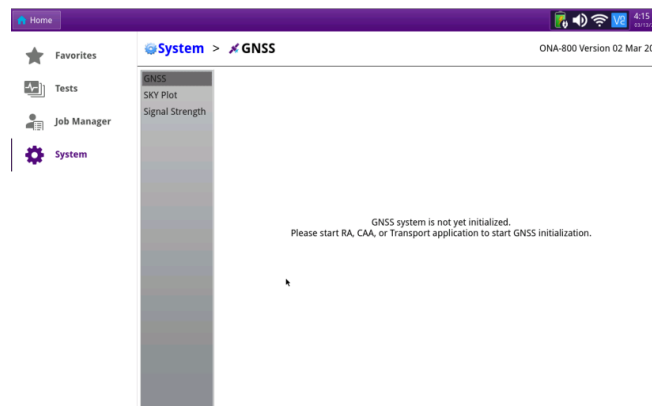
2. Turn on the ONA-800.
3. Select the Home tab  in the upper left corner of the ONA-800.



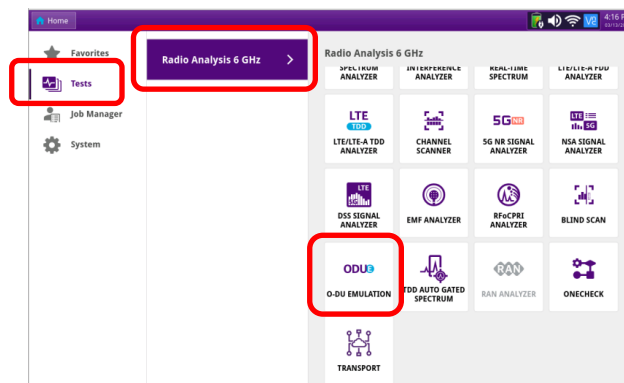
4. In the **System** menu, select the  icon to view GPS information.



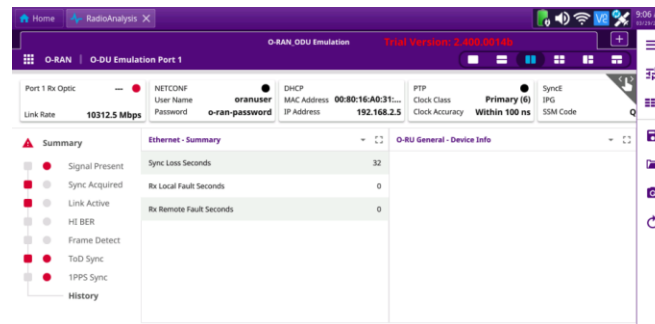
5. If the ONA-800 firmware release is greater than 4.2.0 (April 2023), skip to **step 10**. For earlier firmware releases, the screen below will be displayed.



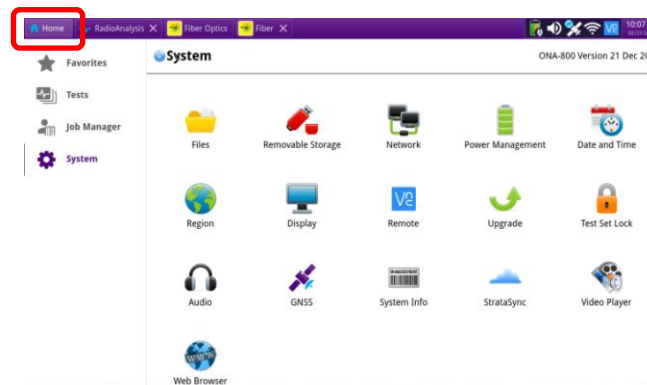
6. Open the **Tests** menu. Select the Radio Analysis 6 GHz option. Select the O-DU Emulation icon . Note: most ONA-800 units will have more options in the **Tests** menu and fewer active icons on the right screen.



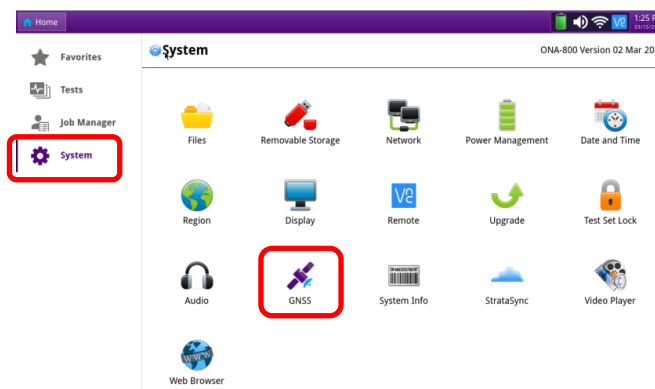
7. A new tab will launch with the O-DU Emulation test. There is no need to configure a test. Launching this test activates the GPS software for ONA-800 units prior to Firmware release 4.2.0 (April 2023).



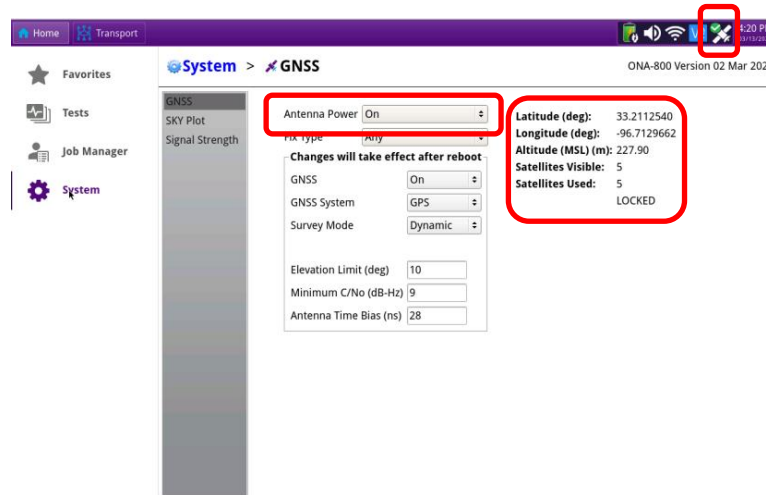
8. Return to the Home tab  in the upper left corner of the ONA-800.



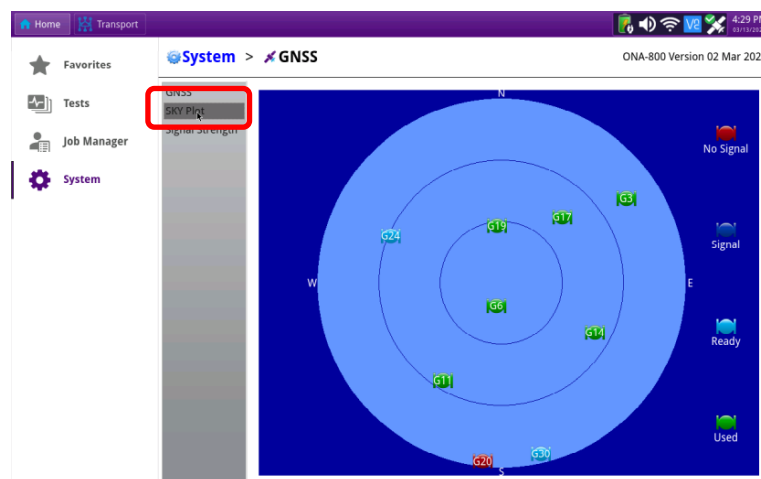
9. Once more, select the GNSS icon  in the **System** menu.



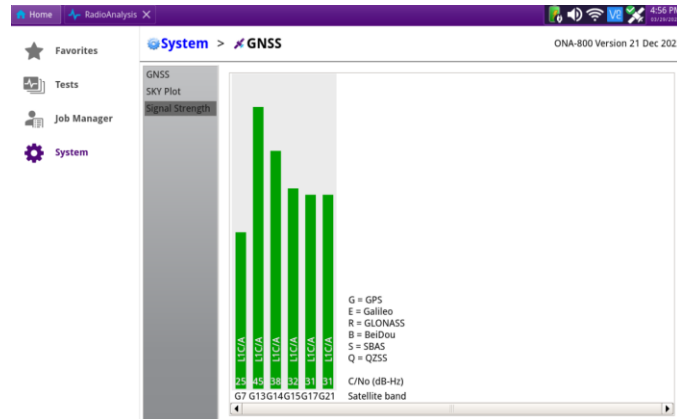
10. The GNSS screen, below, should be shown. Make sure the **Antenna Power** is set to On. Once power is turned on, the unit may take a few minutes to populate GPS information. To verify if the ONA-800 is seeing the satellite signals, make sure the satellite icon in the upper right of the screen has a green check mark  and that Latitude and Longitude information is shown. If no information is shown, skip to **step 13**.



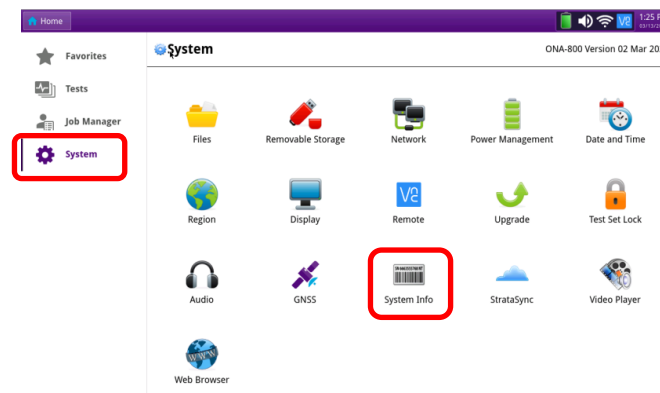
11. The sky plot can be viewed in the second menu choice.



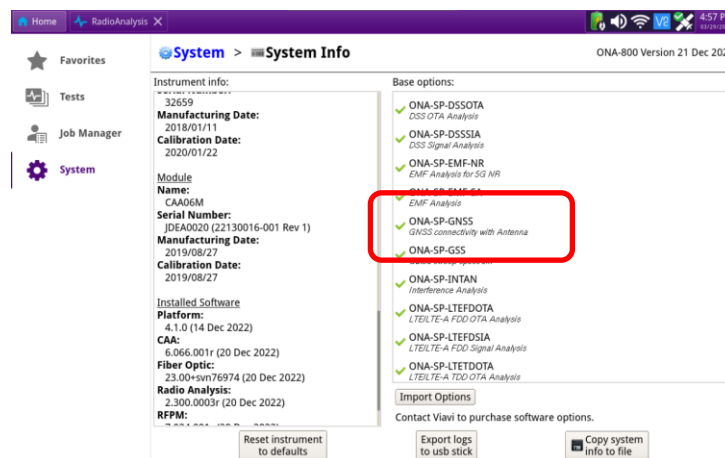
12. The Signal Strength of the satellites can be viewed in the third menu choice.



13. If GPS Information is not being displayed, check that the ONA-800 GNSS license is installed. Select the system info icon  in the **System** menu.



14. On the right side of the screen is a section labelled **Base Options**. Scroll down the menu until the GNSS License is shown. Verify that the license is active. An active license has a green checkmark next to the license name.



15. If the license is not active, the license needs to be downloaded to the unit from the VIAVI StrataSync System. Complete the steps in the **DISH ONA StrataSync Connection Guide**. After completing those steps reboot the ONA-800. Repeat **step 14**, above, to verify license was downloaded to the unit.