



## How to Enable and View GNSS Satellites

To enable and view GNSS satellites with BG77/BG95/BG96/EG91/EG95 USB dongles or miniPCIe, or hardware boards, do the following:

- 1- Install the following driver for Modem on Windows:  
[5G-NB-IoT/Driver/Quectel LTE&5G Windows USB Driver V2.1 at master · 5ghub/5G-NB-IoT \(github.com\)](#)
- 2- Install QCOM V1.6:  
[5G-NB-IoT/Tools at master · 5ghub/5G-NB-IoT \(github.com\)](#)
- 3- Install QGNSS V1.7:  
[5G-NB-IoT/Tools at master · 5ghub/5G-NB-IoT \(github.com\)](#)
- 4- Make sure to connect GPS/GNSS antenna to the GNSS UFL connector on the hardware board. You can use either a passive or active antenna.
- 5- Plug the USB dongle into a USB port. Or connect the USB port, through a USB cable, to USB port on a computer.
- 6- Launch Windows device manager, you shall see the following ports:

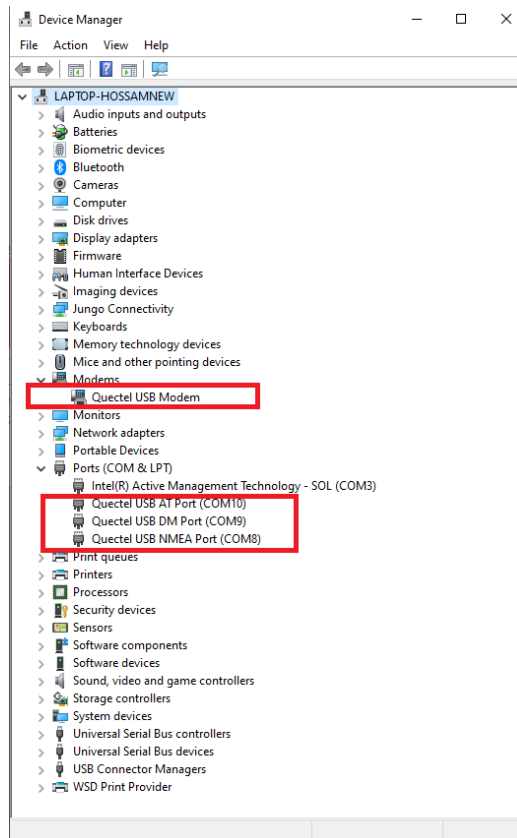


Figure 1: EG91/EG95 Devices

- 7- You can connect to the COM port of either **USB AT Port** or **USB Modem**. If the latter, right-click the **USB Modem**, choose **Properties** and select the **Modem** tab to find the COM port.

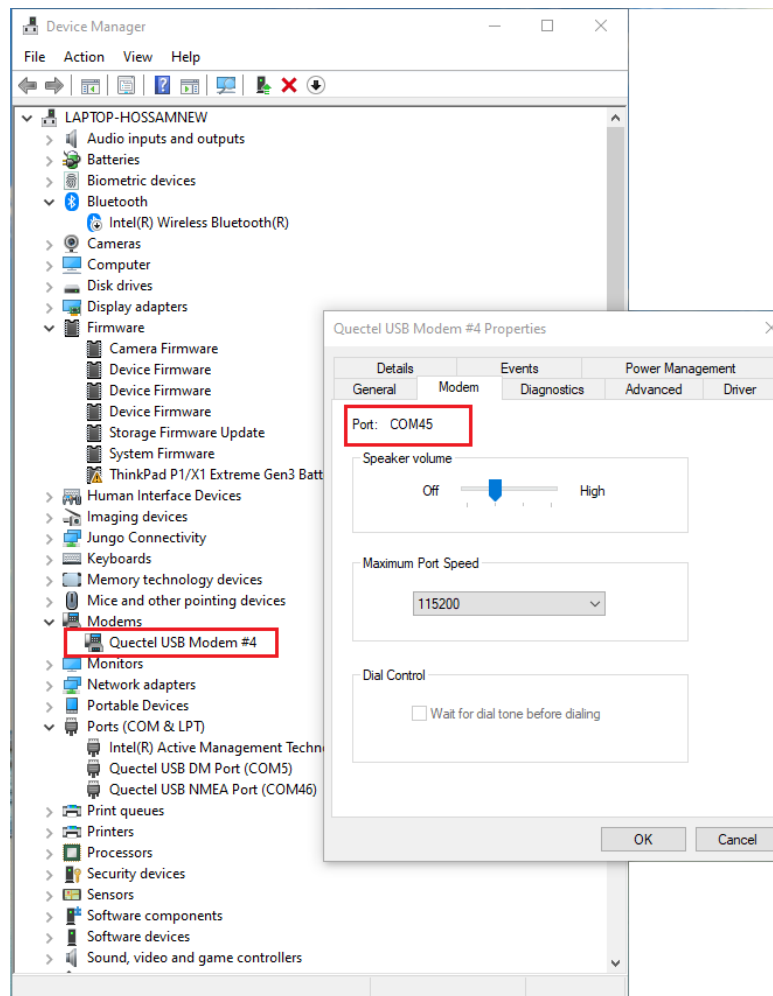


Figure 2: BG77/BG95 Devices

- 8- Launch QCOM tool and connect to the **USB AT port** or **USB Modem** port and click **Open Port**. Run **AT+QPS=1** and this will enable the GNSS on the modem.

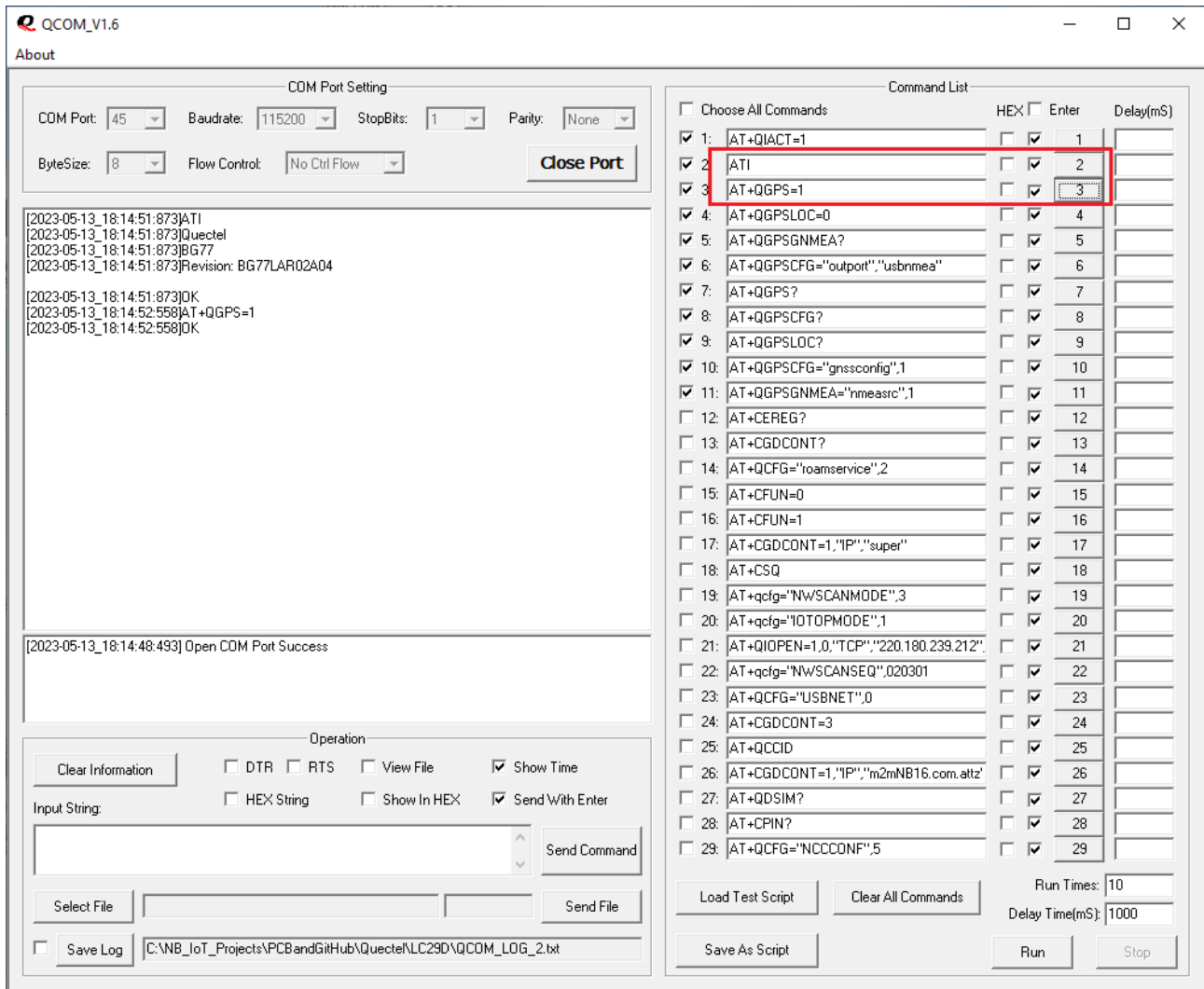


Figure 3: BG77 Device

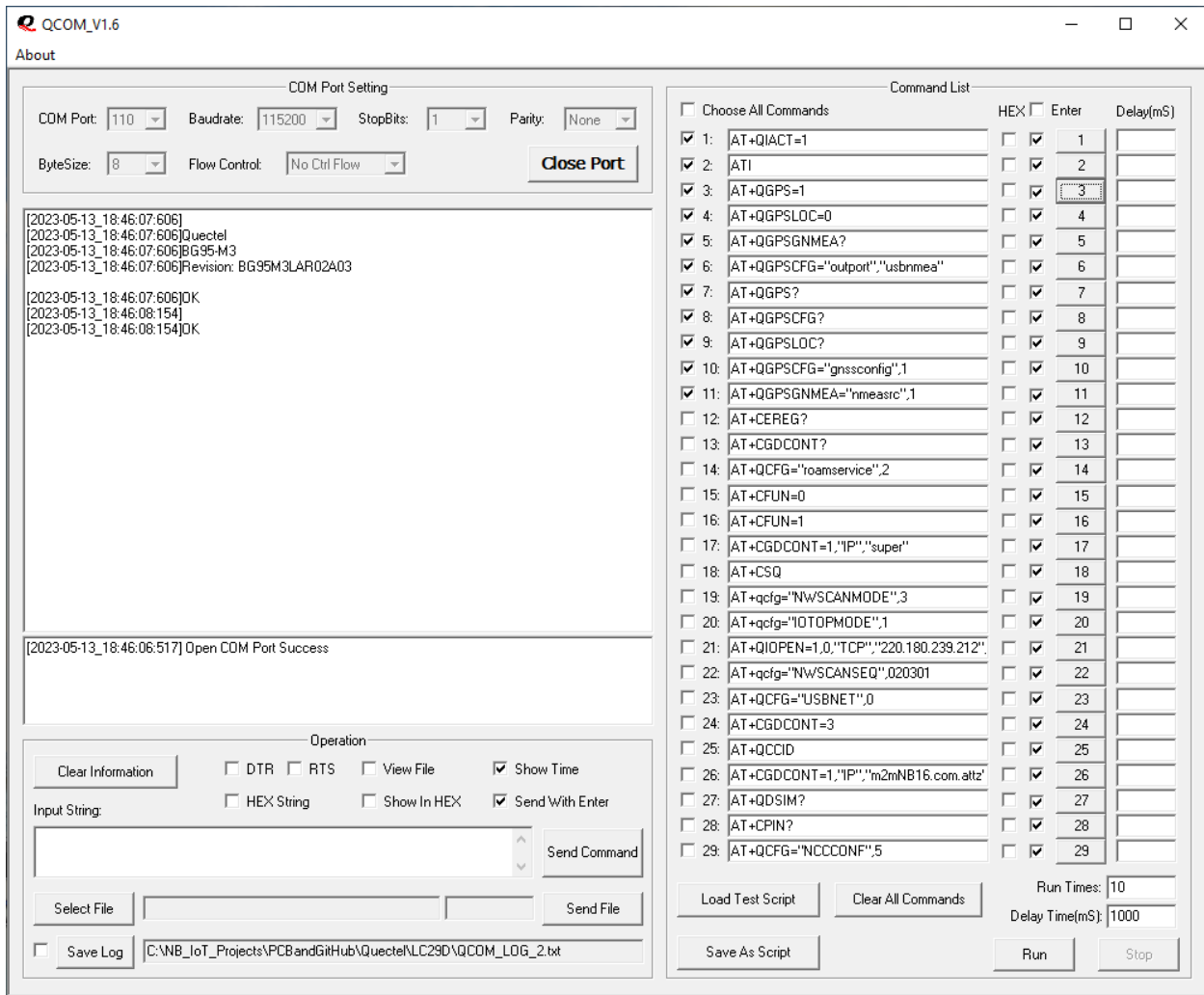


Figure 4: BG95 Device

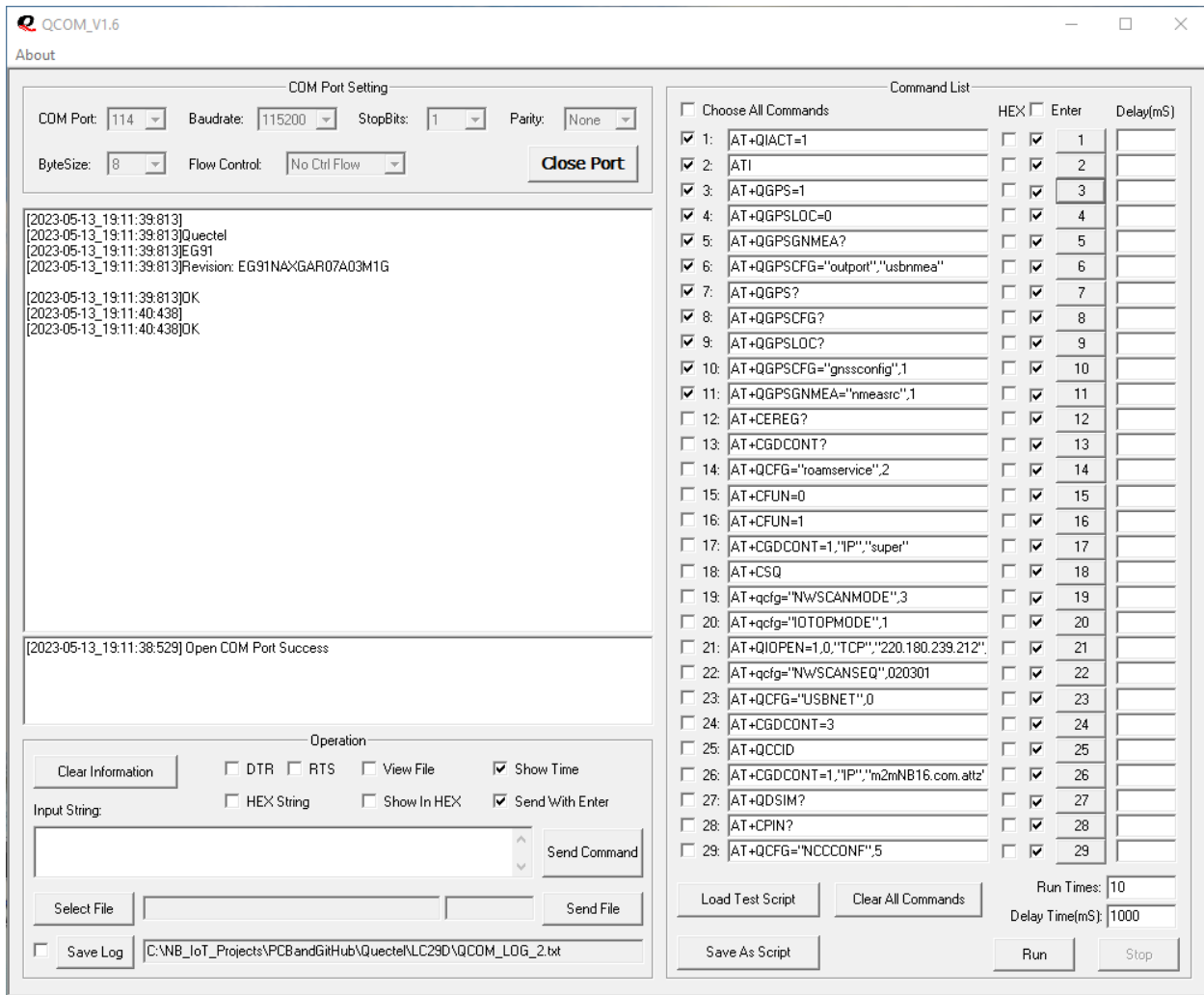


Figure 5: EG91NA/NAX Device

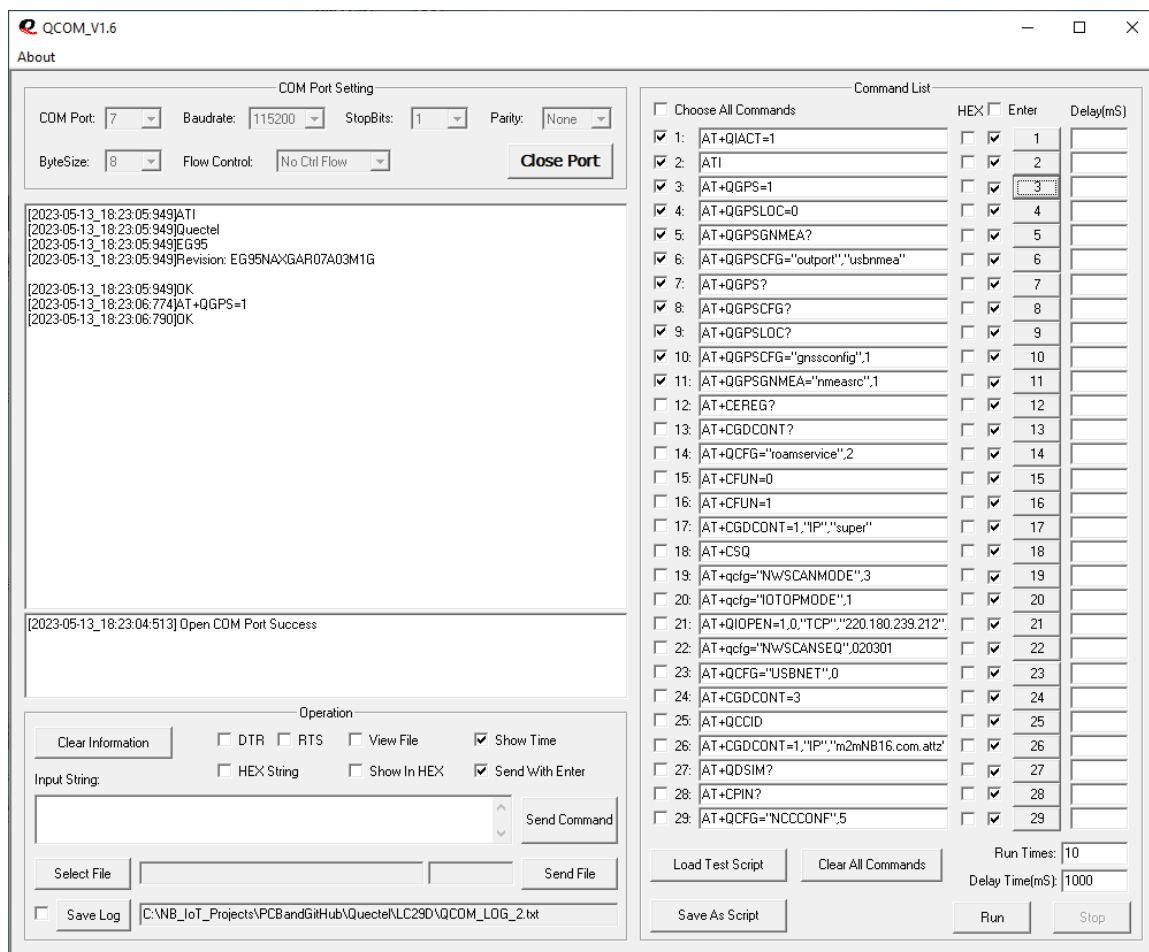


Figure 6: EG95NA/NAX Device

- 9- Launch QGNSS tool, select **Device->Connect** from top menu bar, and select the **Quectel USB NMEA Port**. Click **OK**

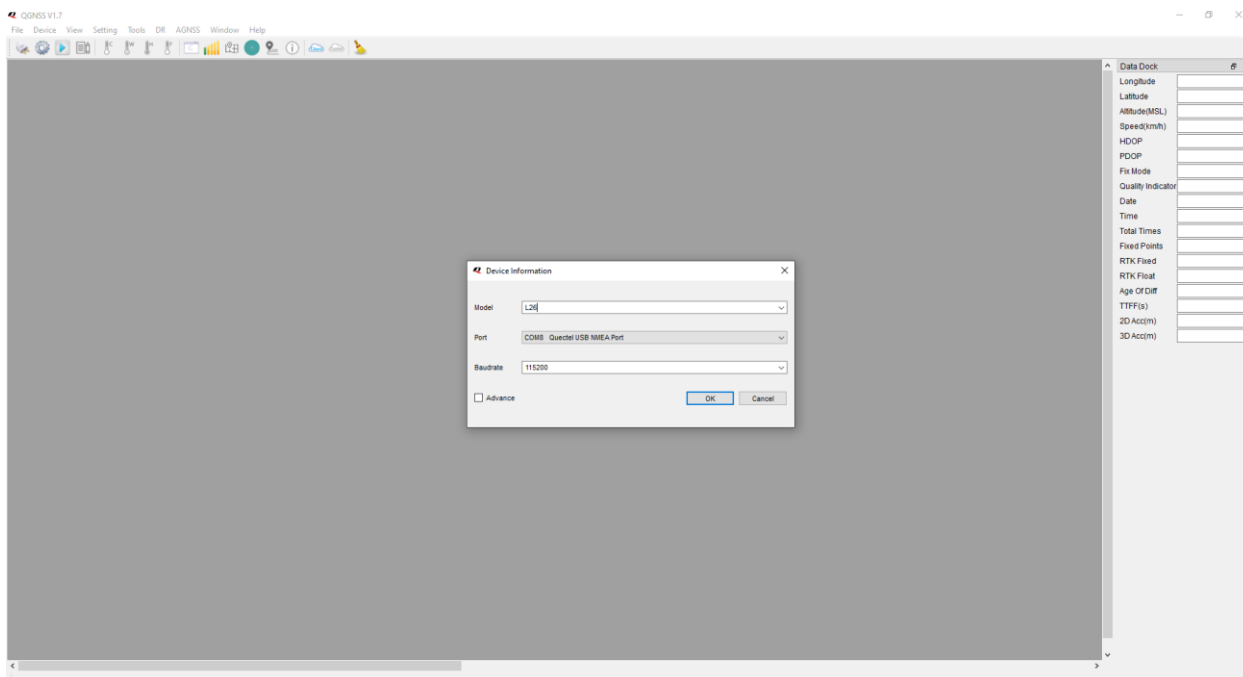


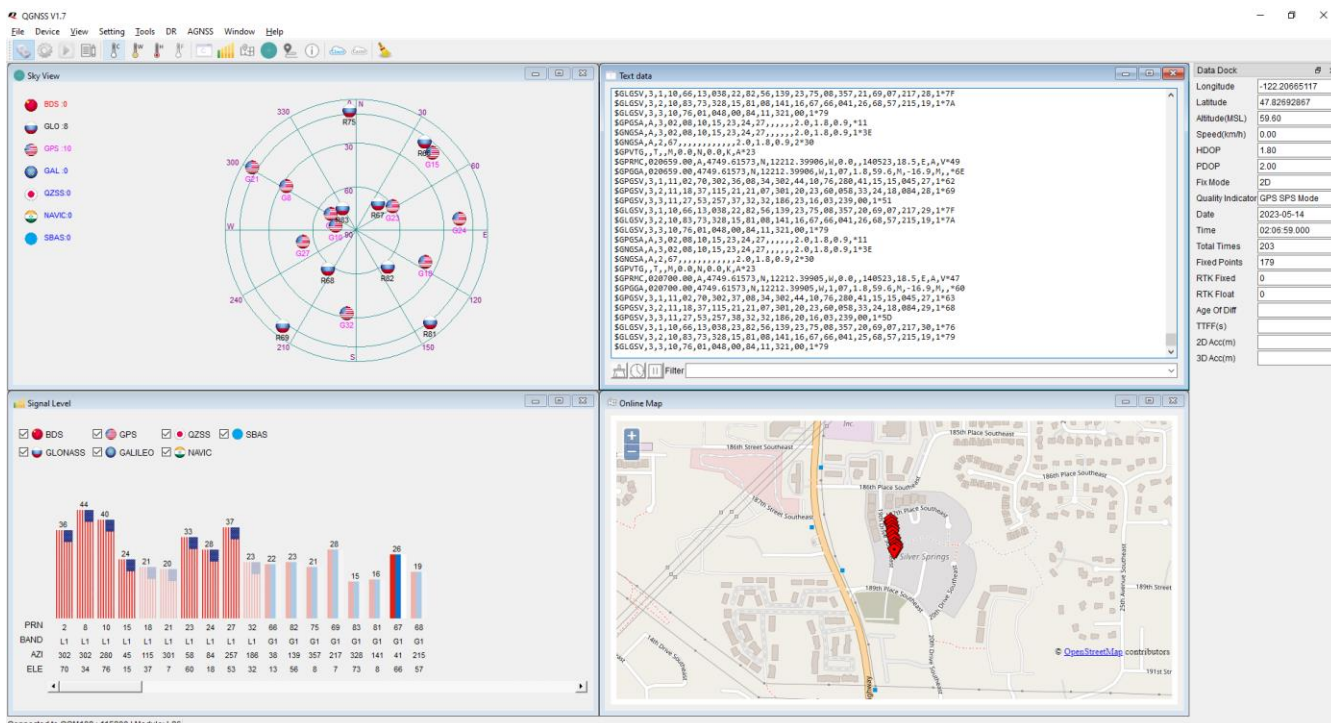
Figure 7: QNSS Tool

10- Choose the following from the QGNSS menu bar:

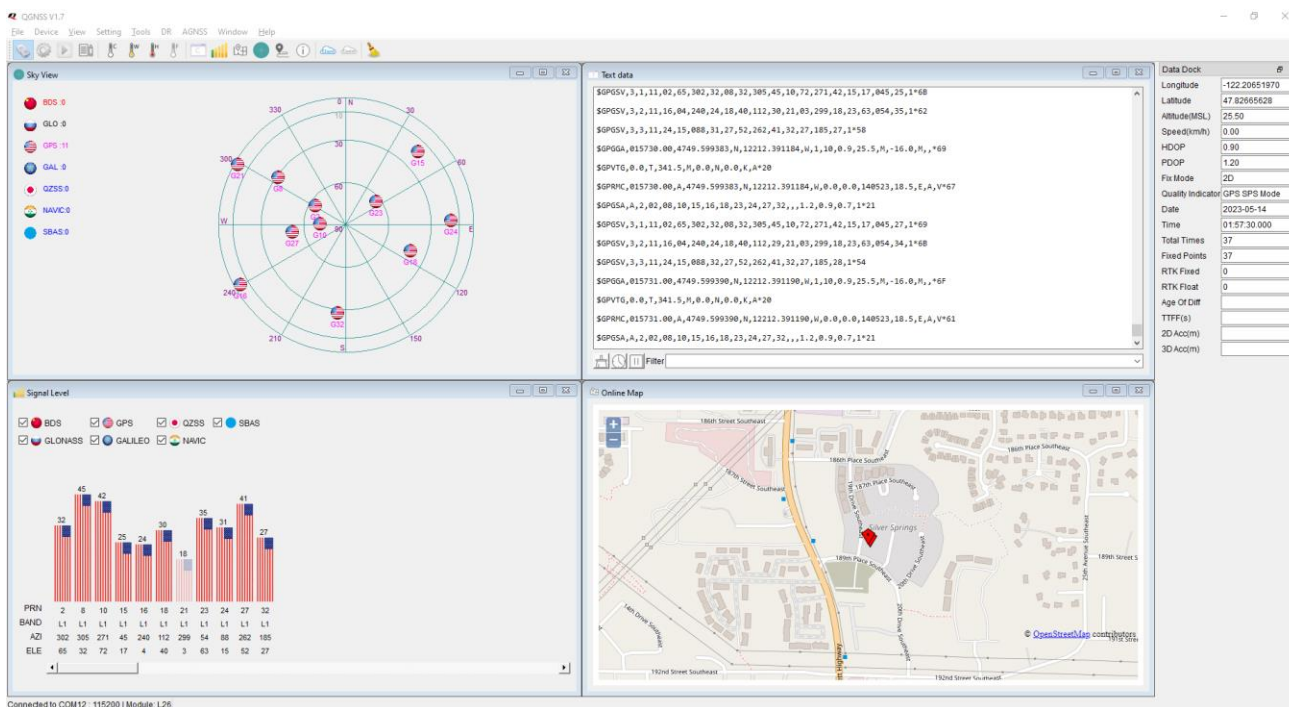
- View->Data Dock**
- View->Binary Data**
- View->Online Map**
- View->GNSS Signal View**
- View->Sky View**

11- Wait a few seconds, GNSS will lock to satellites and display all NMEA sentences and positing information. This is how it looks when GNSS is locked and displaying satellites and positing information.





### Figure 8: BG77 Device



**Figure 9: EG91NA/NAX Device**

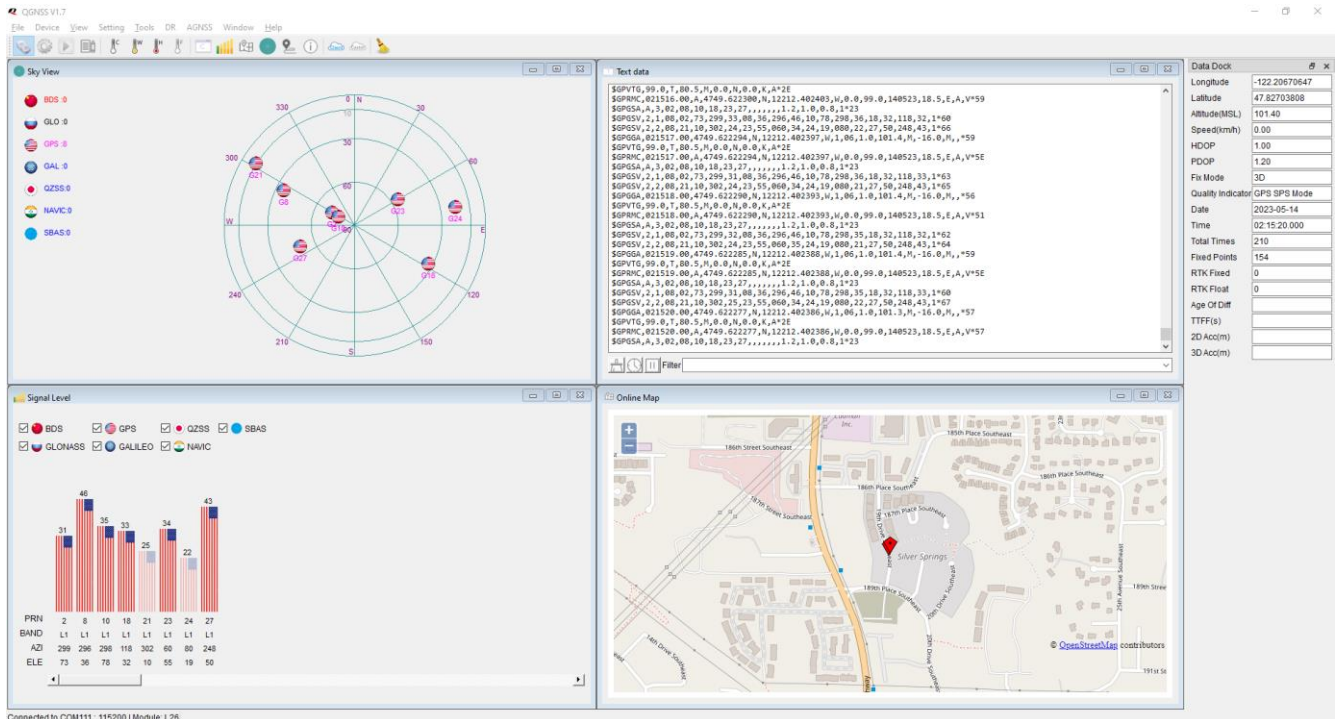


Figure 10: EG95EX Device

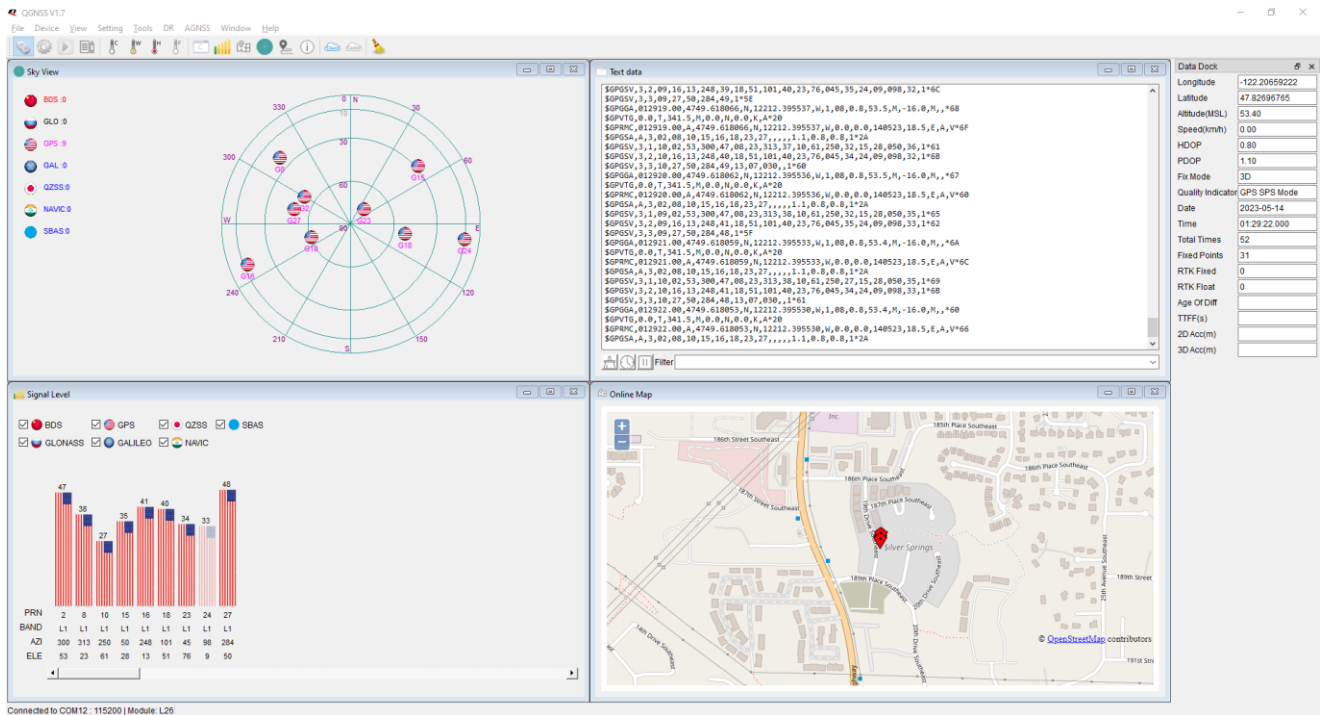


Figure 11: EG95NAX Device

