

## MANGO FFRF sensor has been powered on

The FFRF sensor is the Formation Flying Radio Frequency sensor provided by CNES on PRISMA. This radio frequency based sensor is designed to handle the first stage omnidirectional metrology for future formation flying missions. It is composed of two terminals, one on MANGO and one on TANGO, and a set of antennas. More about this sensor and the CNES experiment on PRISMA (named FFIORD) can be found on at: <http://www.ffiord.fr>

Last night the FFRF terminal on MANGO was checked out successfully. An 8 min test session was dedicated to the checkout test and enabled to validate the electrical behavior of the sensor, the command and control interface and the time synchronization mechanism. The following figure shows the power consumption of the sensor and the local time which starts increasing after an initialization phase of a bit more than 3 min.

In a few days a similar test will be performed for the TANGO FFRF terminal. Then we will have to wait until MANGO and TANGO separation and the 23<sup>rd</sup> of August to fully activate the FFRF sensor.

