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**METIS INSTRUMENT
for the
Solar Orbiter Mission**

**Test Report
EM Detector Assemblies Short Functional Test Procedure and Report**

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1 Introduction

1.1 Scope of the document

This document describes the Short Functional Test (SFT) for the METIS EM Detector Assemblies and, at the same time, reports and discuss the test results.

1.2 Description of the activities

The SFT of the EM models of the METIS detection subsystem has the goal to verify that the METIS Detector subsystem is working and communicating, without assessing the performances.

The procedure detailed in this document, and therefore the pass/nopass criteria, has been defined in order to be easily repeatable and to require a simple data analysis.

The four items under test are:

- VLDA EM
- UVDA EM (without intensifier, only STAR-1000 APS)
- CPC EM
- HVU EM

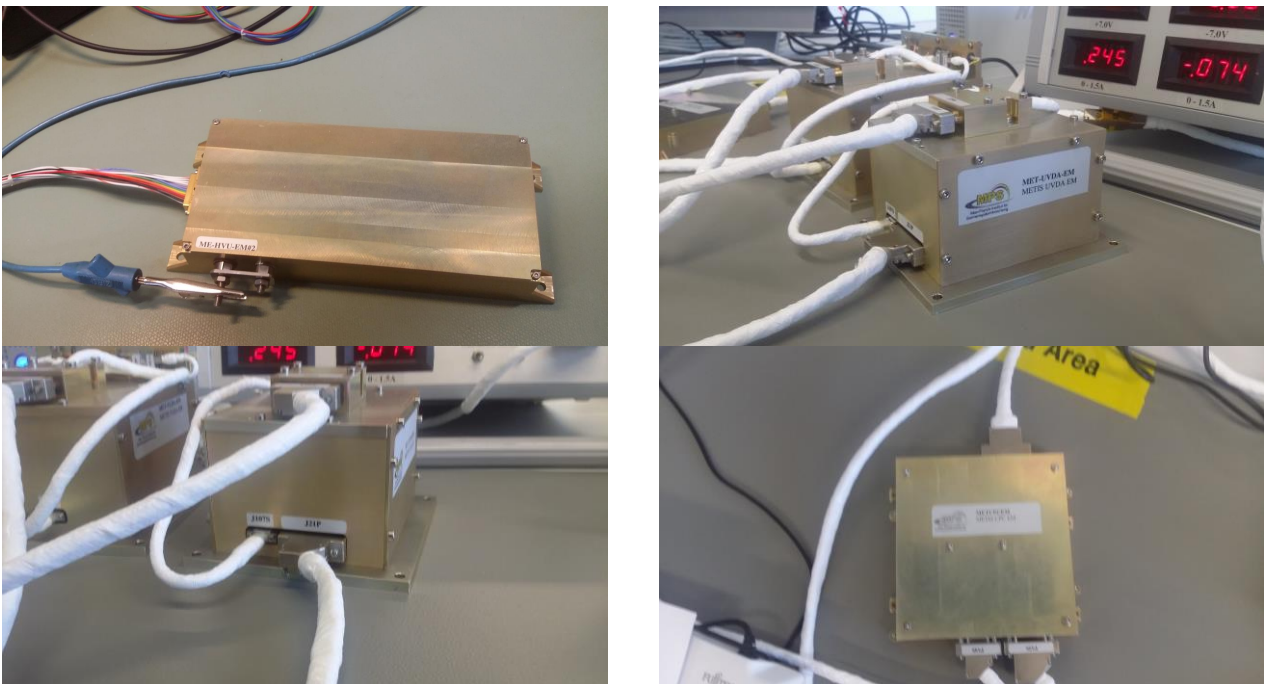


Figure 1: Overview of the four items under test: HVU (top-left), UVDA (top-right), VLDA (bottom-left) and CPC (bottom-right)

The test has been executed using a dedicated EGSE that simulate the MPPU functionalities (TM/TC and power distribution).

Due to the intrinsic limitation of the EGSE provided by MPS, the functional verification has been splinted in three distinct test runs as described below:

- VLDA + CPC for the functional verification of the VL channel;
- UVDA + CPC for the functional verification of the UV channel;
- HVU alone