ALTER

Inspired by Knowledge

Radiation Laboratory

Experts in radiation, engineering and test for materials, EEE components, systems and equipment

Radiation verification test is performed to ensure that the electronics of space systems perform to their specification after exposure to the radiation environment.

- Total Ionization Dose (TID) test over:
  - Materials
  - Individual components
  - Complete boards
  - Systems and equipments
- Total Non-Ionization Dose (Displacement Damage) test
- Heavy Ions Testing
  - Single Event Effects (SEE) Test
    - Single Event Latch-up (SEL)
    - Single Event Transient (SET)
    - Single Event Burn-out (SEB)
    - Single Event Gate Rupture (SEGR)

Irradiation features

- High flexibility and control.
- Wide range of dose rates from (0 to > 100 krad(Si)/h).
- Accumulated dose and exposure homogeneity as demanded by customers.
- Accurate control and register of environmental and radiometric conditions include high, low and criogenic temperature.
- Total in-house management of all activities (boards design & manufacturing, biasing circitry, testing, measurement, reporting, etc.)

Acreditations

- ISO9001, ISO14001.
- Laboratory accreditation ISO/IEC 17025 for our radiation testing.
- MIL-STD-883 TM1019 & MIL-STD-750 TM1019 successfully audited by DLA MIL for "Laboratory Suitability fo All Defense Logistics Agency´s radiation test method"

Virtual Lab

- Our laboratory at your home.
- Acces in real time to the results of the test in each irradiation step.
- Smart database to predict the future behaviour and compare with the past ones.

Advance testing

- Teradyne ultraflex platform.
- ATX 7006 Teaser.

Contact us

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