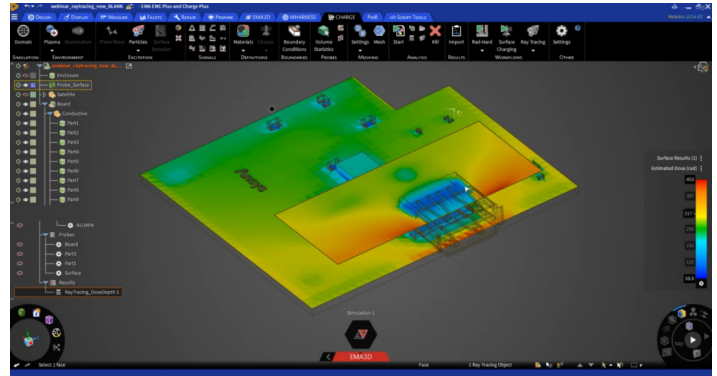


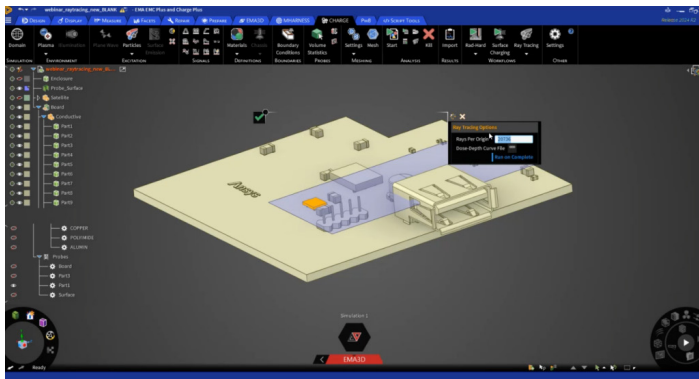
Radiation hardening is essential for ensuring electronics perform reliably in extreme environments like space, nuclear facilities, or high-altitude aviation, where failure is not an option. By protecting systems against ionizing radiation, it dramatically reduces the risk the mission-critical disruptions and costly downtime. EMA delivers unmatched resilience across every phase of your project, ensuring nothing gets left to chance.

EMA uses Ansys Charge Plus to predict the behavior of systems under radiation exposure.



Simulation analysis includes:

- Monte Carlo particle transport
- Ray-tracing dose estimation
- Surface & internal charging
- Dielectric breakdown



Targeted applications areas:

- Spacecraft protection
- ESD risk management
- Advanced plasma dynamics
- Semiconductor reliability

