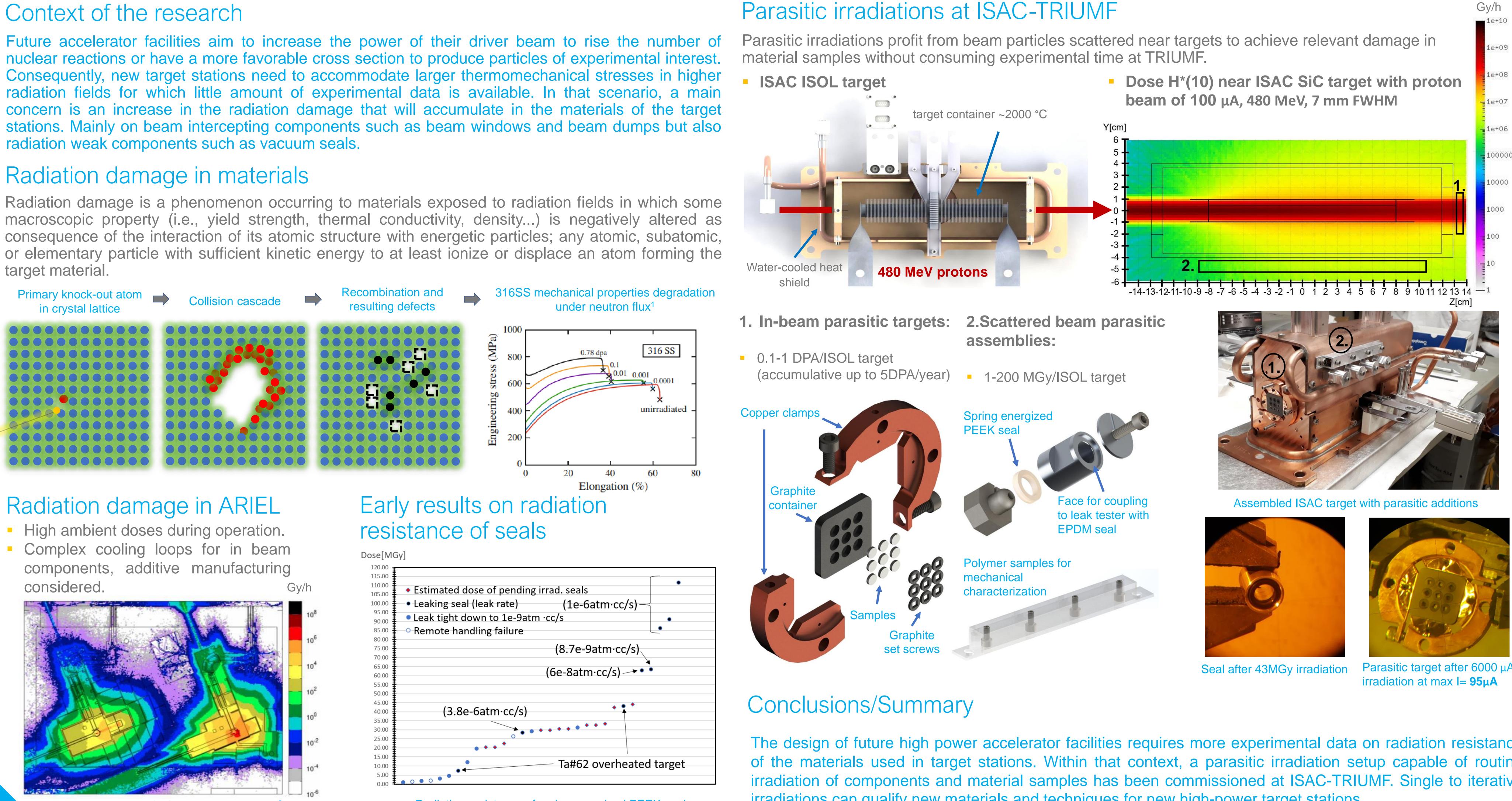


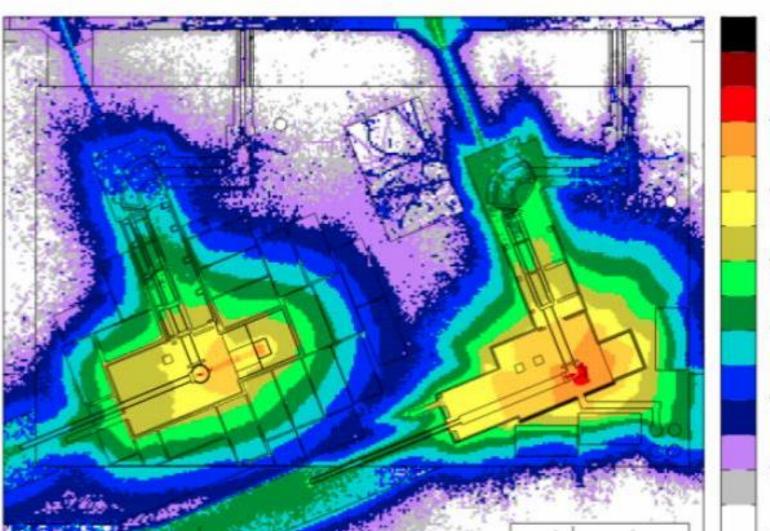


Parasitic Material Irradiation Studies for Accelerator Facilities in ISAC

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Context of the research





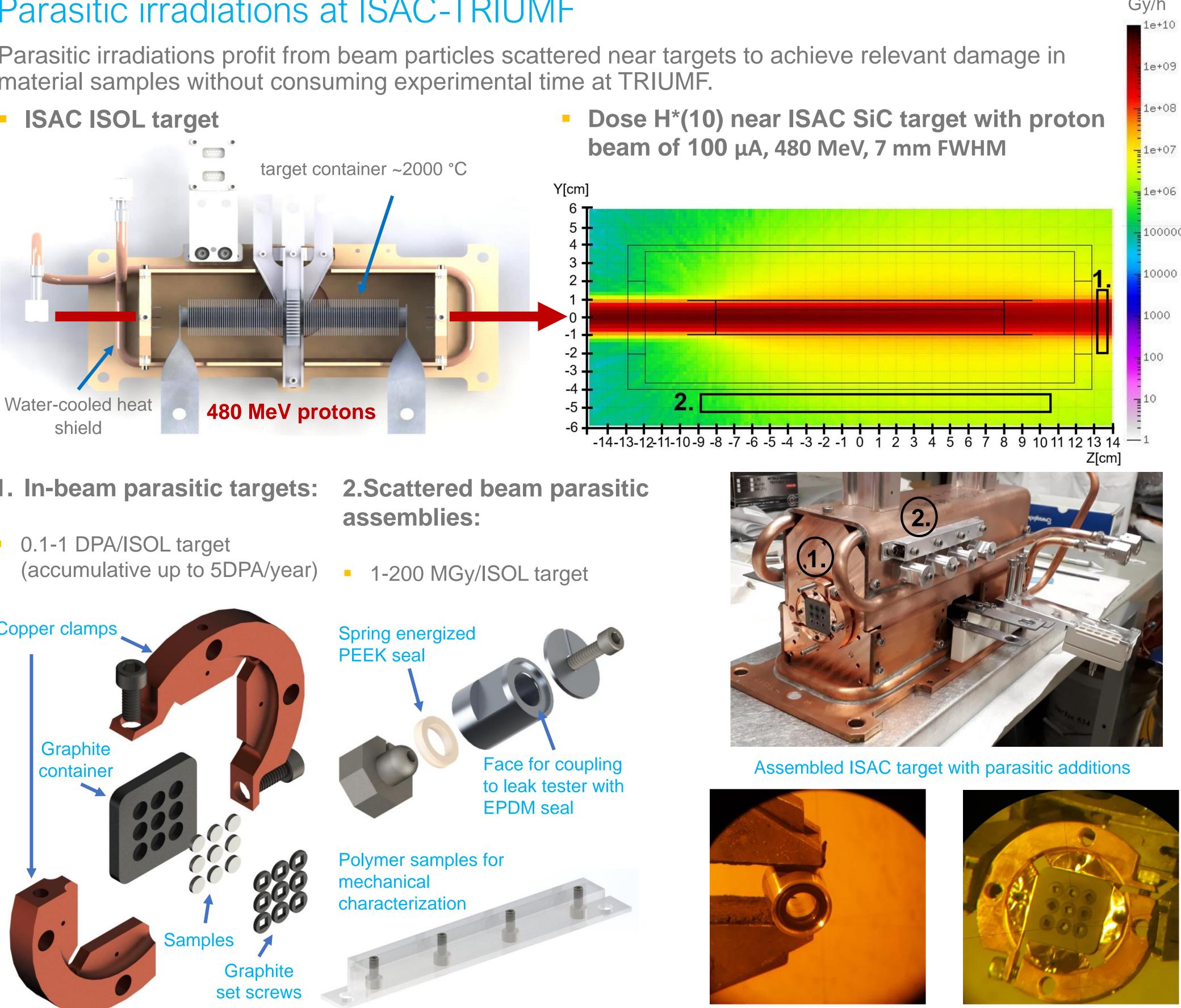
Ambient doses H*(10) in APTW and AETE²

References

1. Was, G. S. Fundamentals of Radiation Damage Materials Science, 2nd edition. Fundamentals of Radiation Materials Science (2017). doi:10.1007/978-1-4939-3438-6_1 2. Augusto, R. S. et al. An overview of the shielding optimization studies for the TRIUMF-ARIEL facility. Nucl. Instruments Methods Phys. Res. Sect. A Accel. Spectrometers, Detect. Assoc. Equip. 1005, 165401 (2021).

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Radiation resistance of spring energized PEEK seals



The design of future high power accelerator facilities requires more experimental data on radiation resistance of the materials used in target stations. Within that context, a parasitic irradiation setup capable of routine irradiation of components and material samples has been commissioned at ISAC-TRIUMF. Single to iterative irradiations can qualify new materials and techniques for new high-power target stations.

Parasitic target after 6000 µAh

