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SPIRAL2 Diagnostic qualifications with RFQ beams

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The SPIRAL2 accelerator, built on the GANIL's facility, at CAEN in FRANCE is dedicated to accelerate light and heavy ion beams up to 5mA and 40 MeV. The continuous wave accelerator is based on two ECR ion sources, a RFQ and a superconducting LINAC. The beam commissioning of the RFQ finished at the end of 2018. This paper presents the Diagnostic-Plate installed behind the RFQ, with all associated accelerator diagnostics. Diagnostic monitors, measured beam parameters, results are described and analyzed. A brief presentation of the next steps is given.

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