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Development of EPR systems – solution of Wrocław University of Technology

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The paper describes the new designed L-Band EPR spectrometer devoted mainly for testing of irradiated food samples. Some units of the designed spectrometer such as the L-Band microwave unit, digital magnetic field controller, digital EPR signal receiver, small size electromagnet, and loop-gap cavity are very suitable for an advanced upgrade of older type EPR spectrometers.