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New HF wave diagnostic designed for ISS

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The level of electromagnetic radio noises observed on satellite board strongly depends on properties of satellite environment, on noises generated by payload system, as well as on geophysical conditions. In order to study the electromagnetic Earth ecosystem and to diagnose the payloads pollution it was constructed and designed new HF wave instrument. The aim of this presentation is to present new type radio receiver(spectral analyser and wave form recorder) designed for "Obstanovka" project on ISS station, and to report the different origin electromagnetic disturbances registered on board of low orbiting satellite. Furthermore the deeply understanding of electromagnetic environment of Earth seems be helpful for also telecommunication and Space Weather purposes.