

Interactive comment on “The development and test research of multi-channel Synchronous transient electromagnetic receiver” by Fanqiang Lin et al.

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GENERAL STATEMENT This paper designs a transient electromagnetic instrument with multi-channel synchronous receiving. Through data analysis, the measured data curves of the mining area is highly consistent with the existing geochemical exploration curves and geological profile. The research is innovative and reasonable. I suggest minor revisions of the manuscript to address the points raised in the specific. **SPECIFIC COMMENTS** 1. There are some grammatical errors in this article that need to be corrected. For example: In the abstract, "the measured data curves of the mining area is highly consistent" it should be "the measured data curves of the mining area

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are highly consistent". 2. Apart from grammar, the error in the article content: (1) In the Multi-channels receiver hardware part, the article is more about the basic knowledge of hardware circuit design, not give the specific design steps of the experimental scheme. (2) In the Software design, such as STM32 software implementation part, A/D sampling, Flash storage, D/A output and Flash load, it is best to give the system flow chart, The design part of the hardware and software is not complete and clear. (3) In the figure 4, not only do not detailed description of the waveform in the graph, but also do not explain the cause of the waveform, suggest elaborating on it in detail.

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