

***Interactive comment on “Simulation study for ground-based Ku-band microwave observations of ozone and hydroxyl in the polar middle atmosphere” by David A. Newnham et al.***

**Anonymous Referee #2**

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Dear authors,

The simulation study is very detailed and careful. The simulated measurement technique is of high interest for investigating the ozone and hydroxyl distributions in the polar middle atmosphere which highly depend on geomagnetic activity, diurnal and seasonal changes, and the polar vortex.

Thus, the article is well suited for a publication in AMT. I only have one specific comment since I am missing concluding remarks about the question if it is more feasible to cool the radiometer or to work with several radiometers in order to reduce the noise. It would be interesting if the authors would discuss both ways and if they would give an

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advice.

Best regards,

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