

It is clear to see the author has carefully taken into account reviewer comments point by point, restructured the framework of this paper and improved evaluation of different methods and the source of uncertainties. The latest results provided a more robust estimates of pipeline leaks, which is at least more convincing than the previous version.

The author has appropriately revised this paper according to all comments, which significantly improved the quality of the paper in the latest manuscript. Based on the above points, I have no further suggestions before the paper's publication.