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Atmospheric Chemistry and Physics Discussions

Interactive comment on "Occurrence and Spatial Distribution of the Neutral Per-fluoroalkyl Substances, and Cyclic Volatile Methylsiloxanes in Atmosphere of the Tibetan Plateau" *by* Xiaoping Wang et al.

Anonymous Referee #2

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The manuscript describes multiple pollutant in the atmosphere of the Tibetan Plateau region. The study is also important considering limited literature available on the fate and source identification of PFASs and cyclic volatile Methylsiloxanes from Asia. Certainly, this study will be a valuable addition to present literature on distribution, fate and transport of emerging persistent organic pollutants. Manuscript has presented all facts and explanations in a clear fashion which makes it easy to interpret and understand. This is an important subject and a rising topic and is well suitable for publication on "Atmospheric Chemistry and Physics". I would recommend it minor revision. There

are some suggestions that can help authors improve their manuscript 1. Abstract, line 25: silxoanes should be siloxanes. 2. Lines 71-73: FTOHs and FTOs are not congeners, but compound classes. 4.2 FTOH is a substance which belongs to one of these classes. 3. Line 106-107: there are no estimations of risks in this manuscript. The text in the concluding section suggests that the risks of the "emerging pollutants" are higher without doing any calculations. Do you think the comparison to legacy POPs is meanful? 4. Materials and methods, lines 130-131. The sampling design seems arbitrary. Could you explain a bit about why you choose these sampling sites? 5. Line 190 – Do you refer to recovery of the internal standard? Please clarify. 6. Line 197-198: How could the conversion have happened during sampling? 7. Line 253-254: Can this be caused by phasing-out time? Products containing FOSEs and FOSAs were mostly produced by 3M and mostly phased out in 2002. Products releasing 8:2 FTOH were more recently phased out and the US EPA Stewardship Program only concluded in 2015. 8. Line 356-371: There is no discussion of correlations of 6:2 FTOH with other FTOHs. 9. Line 353-354: This is not clear to me 10. Line 372-380: Are there any correlations between releases of substance and population/wealth where there are a large number of consumer products?

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