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Atmospheric Chemistry and Physics Discussions

Interactive comment on "Source apportionment of fine particulate matter in Houston, Texas: Insights to secondary organic aerosols" *by* Ibrahim M. Al-Naiema et al.

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Dear Ibrahim, Elizabeth and co-authors,

This is a very great work providing a comparison of OA source apportionment results obtained using PMF-AMS, PMF-filter based (MM-PMF) and CMB. There are only few papers in the literature showing such direct comparison and it is interesting to show how they agree.

I would like to suggest you to have a look to 2 papers that we have very recently published about the use of primary and secondary organic molecular markers in PMF

source apportionment. This is maybe helpful.

Srivastava, D., Tomaz, S., Favez, O., Lanzafame, G. M., Golly, B., Besombes, J.-L., Alleman, L. Y., Jaffrezo, J.-L., Jacob, V., Perraudin, E., Villenave, E. and Albinet, A.: Speciation of organic fraction does matter for source apportionment. Part 1: A one-year campaign in Grenoble (France), Science of The Total Environment, 624, 1598–1611, doi:10.1016/j.scitotenv.2017.12.135, 2018a.

Srivastava, D., Favez, O., Bonnaire, N., Lucarelli, F., Haeffelin, M., Perraudin, E., Gros, V., Villenave, E. and Albinet, A.: Speciation of organic fractions does matter for aerosol source apportionment. Part 2: Intensive short-term campaign in the Paris area (France), Science of The Total Environment, 634, 267–278, doi:10.1016/j.scitotenv.2018.03.296, 2018b.

Regards,

Alexandre

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