

## ***Interactive comment on “Addition of a fast GC to SIFT-MS for analyses of individual monoterpenes in mixtures” by Michal Lacko et al.***

**Michal Lacko et al.**

spanel@jh-inst.cas.cz

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Markus, thank you for your kind comment on our paper. Answers to your questions are below: 1) The length of both columns (MXT-1 and MXT-Volatiles) was identical, i.e. 5 meters. We will clarify this in the revised paper. 2) This is a very interesting suggestion. Sequential analysis, could be used to improve the time resolution of GC analysis down to several seconds. However, the hardware would have to be much more complicated and possibly artefacts due to the Nyquist Theorem could occur. Additionally, the idea of several parallel lines could simply be used to improve sensitivity by increasing the total flow of a smple whilst keeping the same quality of separation. 3) We have chosen the metallic column following the previous fast GC PTR-MS applications as it can be heated ohmically. Also the decreased I.D. would lead to a smaller flow rate limiting

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sensitivity.

Thank you also for spotting the typo, we will correct it.

On behalf of the author team,

Patrik.

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