

Biogenic VOC emission profiles of Rapeseed leaf litter and their SOA formation potential

Letizia Abis^{1*}, Carmen Kalalian¹, Bastien Lunardelli¹, Tao Wang², Sébastien Perrier¹, Benjamin Loubet³, Raluca Ciuraru³ and Christian George¹

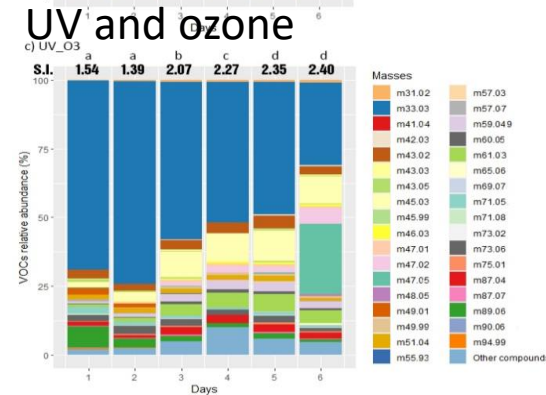
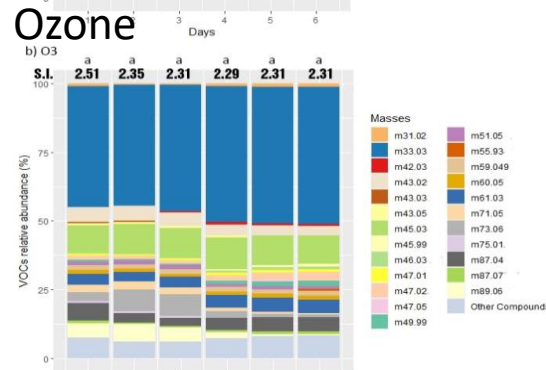
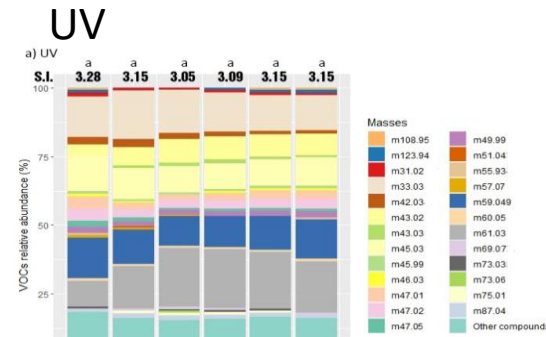


BVOC emissions from rapeseed leaves litter and their potential to create SOA under three different conditions for **6 days**:

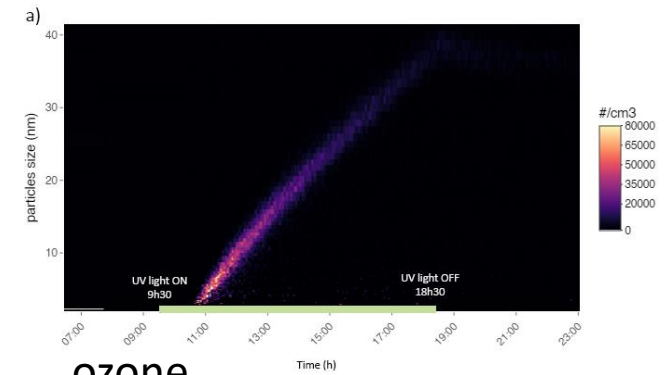
- under UV light irradiation;
- In the presence of ozone,
- with both ozone and UV light.

The diversity of emitted VOCs increased in presence of UV light irradiation.

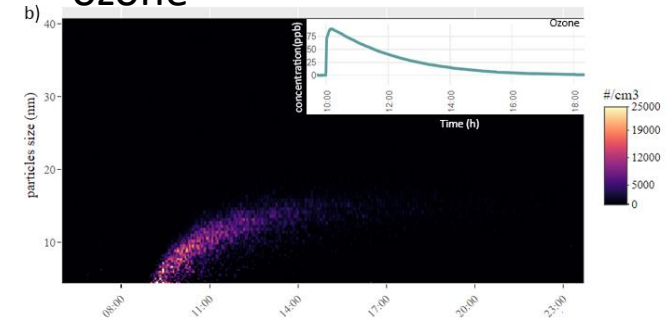
The SOA formation was observed when leaf litter were exposed to both UV light and O₃, indicating a potential large contribution to particle formation or growth at local scales.



UV



ozone



UV and ozone

