

# **Biogenic VOC emission profiles of rapeseed leaf litter and its SOA formation potential**

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This supplementary information contains:

- Appendix A
- Appendix B

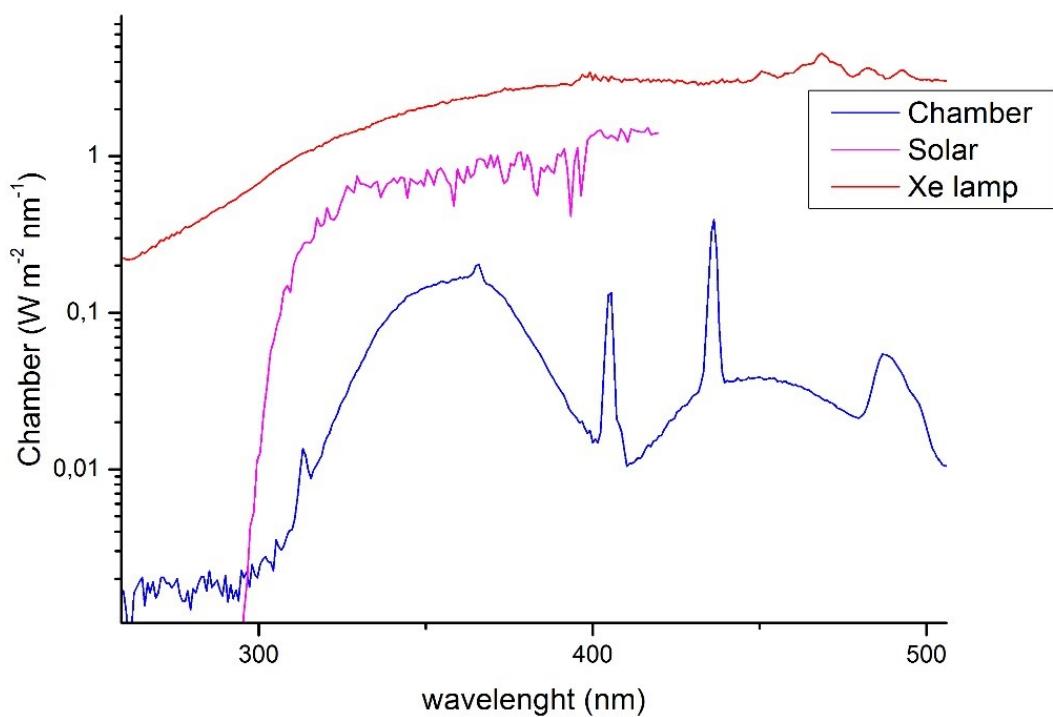


Figure A1. UV spectrum of the lamps used in the atmospheric simulation chamber compared to the solar spectrum and the spectrum generated by a Xenon lamp (Xe lamp).

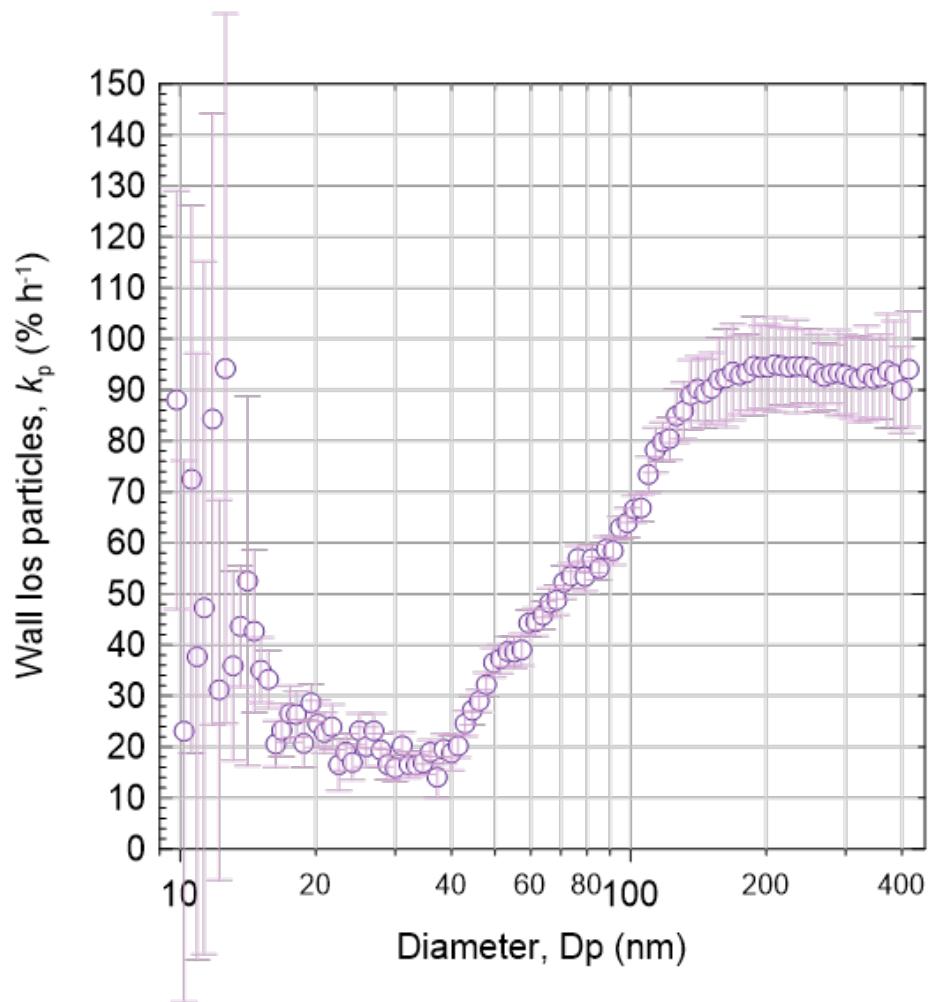


Figure A2. Estimation of the wall loss particles per diameter (nm) in the multiphase simulation chamber.

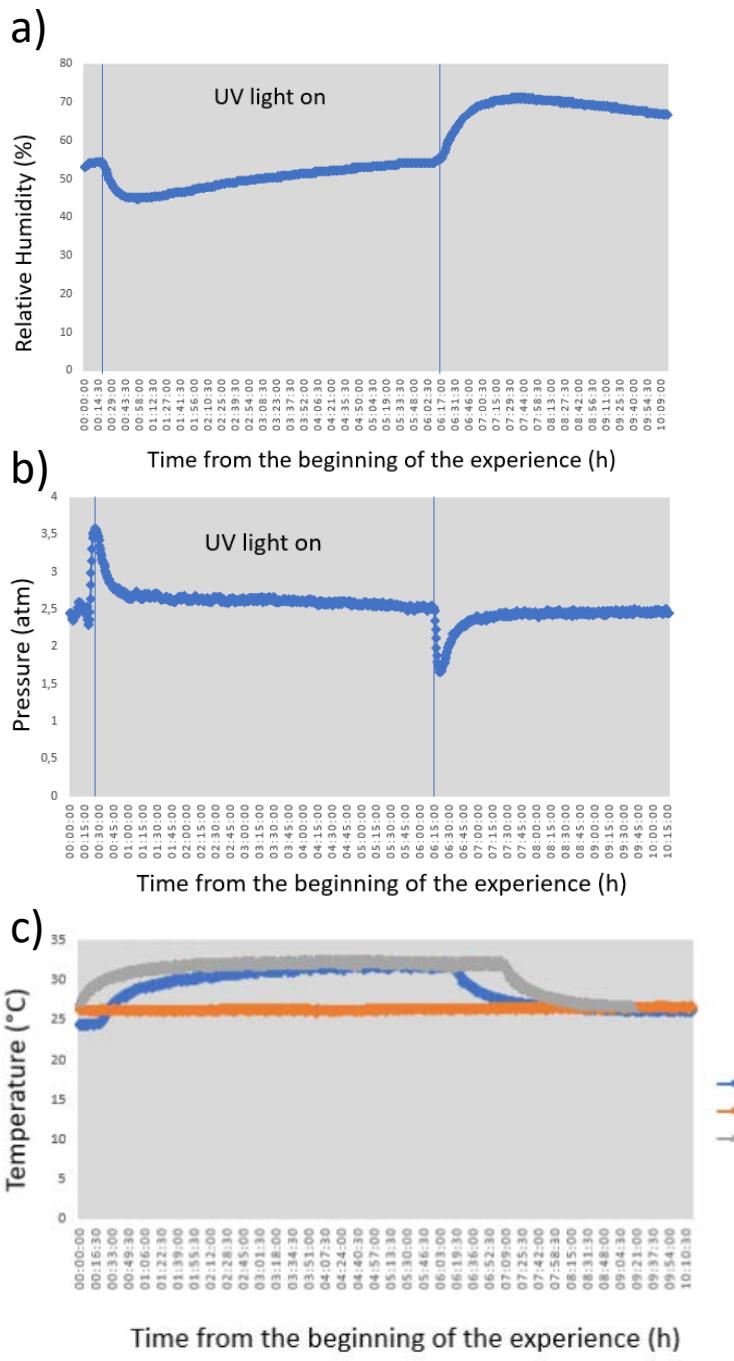


Figure A3. Evolution of a) Relative humidity, b) pressure and c) temperature during the experiment UV\_O<sub>3</sub>, O<sub>3</sub> and UV. Blue bars delimit the time where the UV light were on. The blue bar on the left of each graph also corresponds to the ozone injection time.

Table B1. Tentative identification and most likely formula of the most emitted compound for the UV, O<sub>3</sub>, and UV\_O<sub>3</sub> conditions.

LIST OF THE MOST EMITTED COMPOUNDS		
Masses	Most likely formula	Tentative identification
31.02	CH2O	Formaldehyde
33.03	CH4O	Methanol
42.03	C2H3N	Acetonitrile
43.02	C2H2O	Hexyl acetate fragment/ketene
43.03	C2H2O	
43.05	C3H6	Propene
45.03	C2H4O	Acetaldehyde
45.99		
46.03	CH3NO	Formamide
47.01	CH2O2	Formic acid
47.02	CH2O2/C2H6O	Formic acid/ethanol
47.05	C2H6O	Ethanol
49.01	CH4O2	Methanediol
49.99	H3NS	
51.04	CH4O-H2O	Methanol-water cluster
55.93	C3H3O	1-Oxoprop-2-enyl
57.03	C3H4O	2-propenal (acrolein)
57.07	C4H10O/C4H8	Butanol/butene
59.04	C3H6O	Acetone
60.05	C2H5NO	Acetamide/ N-methyl formamide/ nitrosoethano
61.03	C2H4O2	Acetic acid
69.07	C5H8	Isoprene
71.05	C4H6O	Methyl vinyl ketone (MVK)
71.08	C5H10	Pentene
73.03	C3H4O2	2-propenoic acid
73.06	C4H8O	2-butanone, (MEK)/2-methypropanal
74.06	C3H7NO	N, N-dimethylformamide/Propanamide
75.01	C3H6O2	Hydroxyacetone
87.04	C4H6O2	Butenoic acid
87.07	C5H10O	2-methyl butanal/pentanone
88.04	C3H5NO2	Propene, 3-nitro-
89.06	C5H12O/C4H8O2	2-pentanol /Butanoic acid/Acetoin
90.06		
90.95		
93.95	C7H8	Toluene
94.99		
96.007	C5H5NO/C6H9N	Pyridine-N-oxide/2,4-dimethylpyrrole
101.06	C5H8O2	2,3-Pentanedione
108.95	C7H9N	Pyridine, 2,4-dimethyl-
123.94		
125.95		

