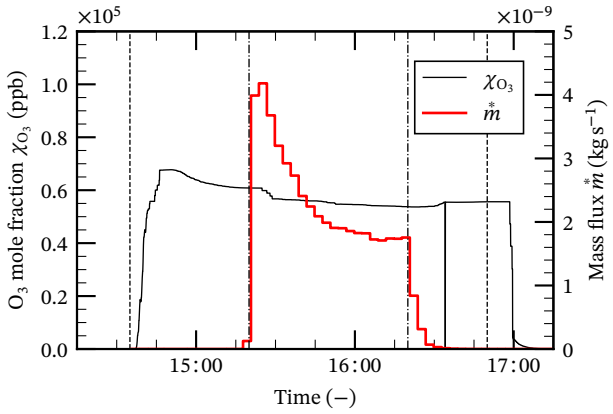
1 Results

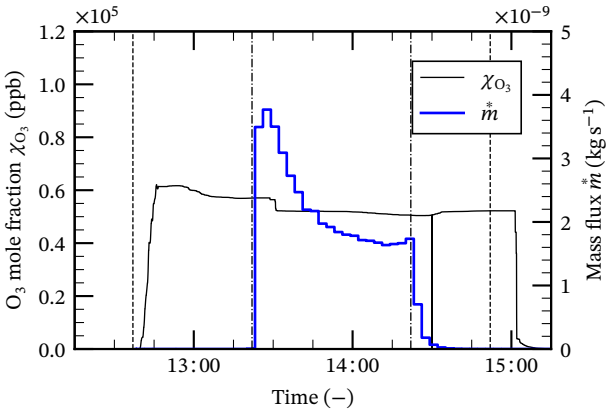
1.1 OFR- and TOC Data

Computing the mass on the filter may be achieved

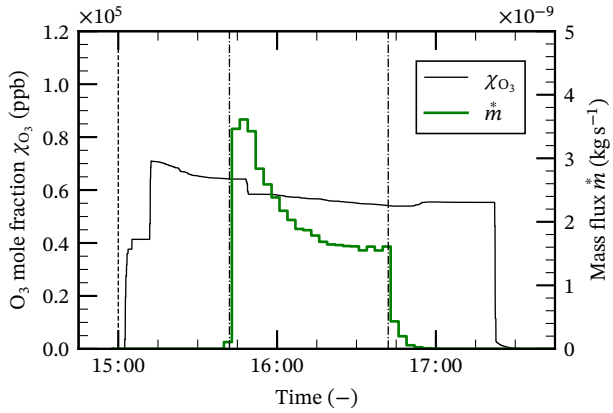
$$m_{\mathrm{F}} = \int_{t_{\mathrm{on}}}^{t_{\mathrm{off}}} \overset{*}{m}\, \mathrm{d}t \approx \sum_{\text{Samples}} \overset{*}{m}_i \Delta t_i \tag{1.1}$$



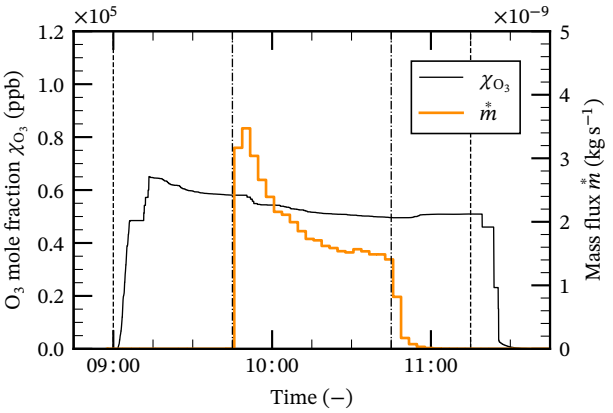
(a) Data for filter in set 2 experiment 14 (03.09.2026).



(b) Data for filter in set 2 experiment 15 (04.09.2026).



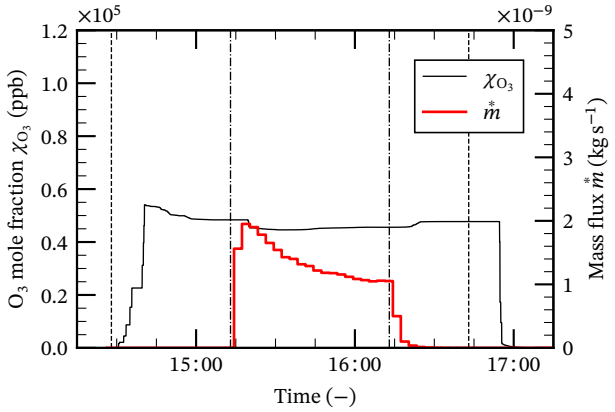
(c) Data for filter in set 2 experiment 16 (10.09.2026).



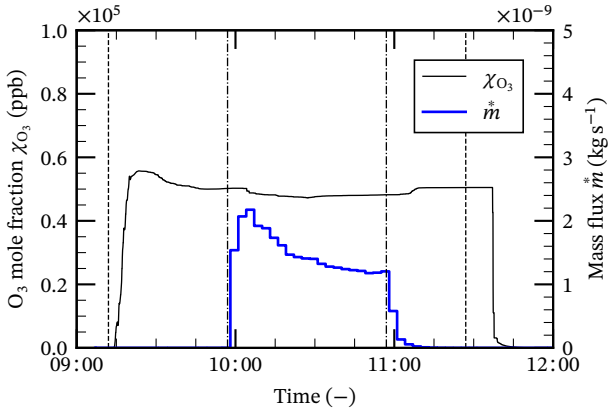
(d) Data for filter in set 2 experiment 17 (14.09.2026).

FIGURE 1.1: Data for α-pinene filters. **(a)**: Data for the filter from set 2 experiment 14 from 03.09.2026. Dotted lines indicate activating and deactivating the Ozone source, respectively. Dash-dotted lines indicate the activation and deactivation of α-pinene flow. **(b) — (d)**: As in (a), but for set 2 experiments 15, 16 and 17, respectively.

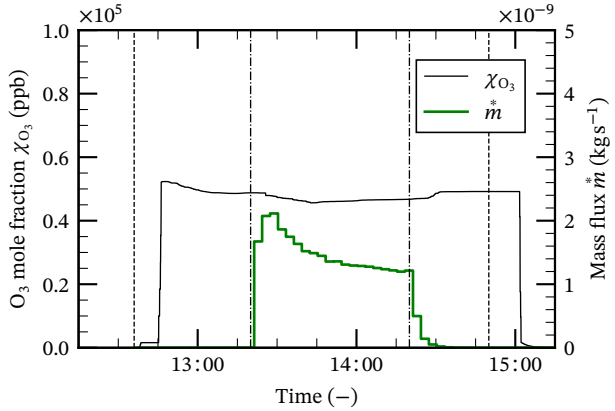
This is some reference to fig. 1.2, fig. 1.2a and some reference to fig. (c).



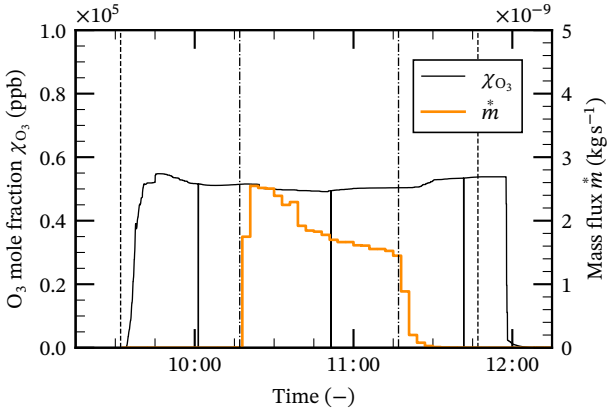
(a) Data for filter in set 2 experiment 18 (14.09.2026).



(b) Data for filter in set 2 experiment 19 (15.09.2026).

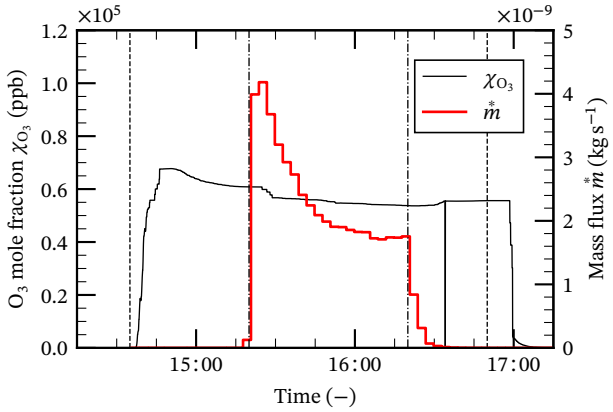


(c) Data for filter in set 2 experiment 20 (15.09.2026).

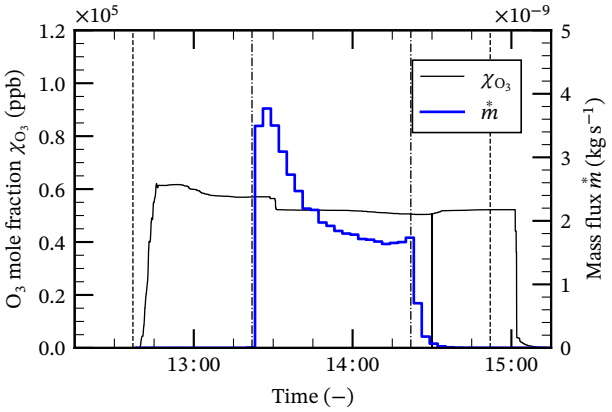


(d) Data for filter in set 2 experiment 21 (16.09.2026).

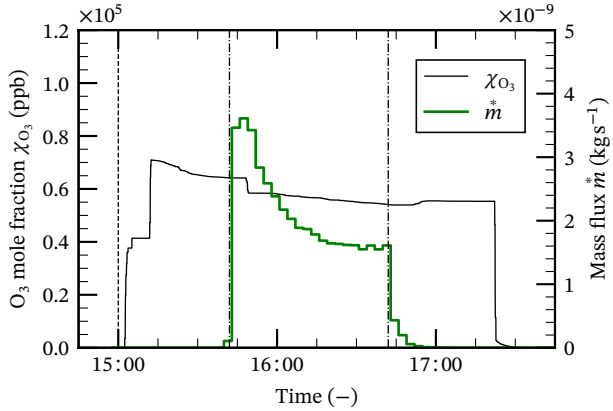
FIGURE 1.2: Data for Limonene filters. **(a)**: Data for the filter from set 2 experiment 22 (02.09.2026). Dotted lines indicate activating and deactivating the Ozone source, respectively. Dash-dotted lines indicate the activation and deactivation of Limonene flow. **(b) — (d)**: as in (a), but for set 2 experiments 19, 20 and 21, respectively.



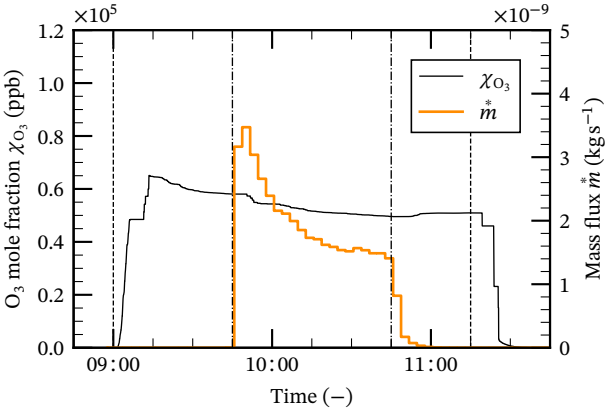
(a) Data for filter in set 2 experiment 14 from 02.09.2026.



(b) Data for filter in set 2 experiment 15 from 03.09.2026.

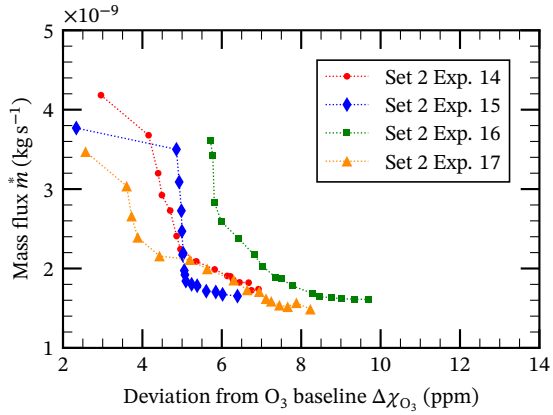


(c) Data for filter in set 2 experiment 16 from 04.09.2026.

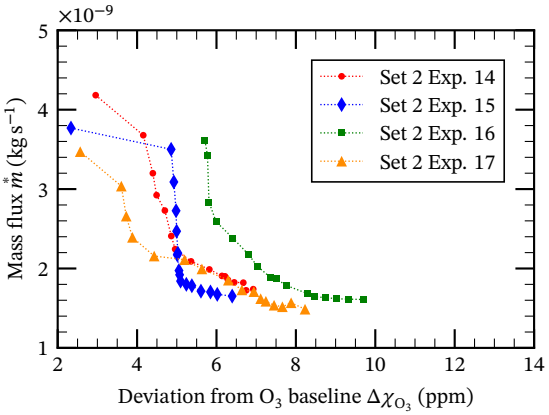


(d) Data for filter in set 2 experiment 17 from 04.09.2026.

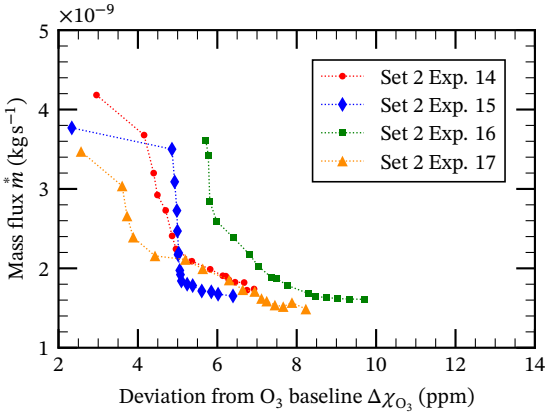
FIGURE 1.3: Data for β-pinene filters. **(a)**: Data for the filter from set 2 experiment 18 (02.09.2026). Dotted lines indicate activating and deactivating the Ozone source, respectively. Dash-dotted lines indicate the activation and deactivation of β-pinene flow. **(b) — (d)**: as in (a), but for set 2 experiments 19 (03.09.2026), 20 (22.22.2222) and 21 (22.22.2222).



(a) Data for filter in set 2 experiment 14 from 02.09.2026.



(b) Data for filter in set 2 experiment 15 from 03.09.2026.



(c) Data for filter in set 2 experiment 16 from 04.09.2026.

FIGURE 1.4: Correlation diagrams between volatile organic compound (VOC) mass flows and ozone (O_3) concentrations. **(a)**: Filter mass flux $\dot{m}^*$ in dependency of ozone concentration for α-pinene filters. Deviation from ozone baseline is computed as the average Ozone values for 5 min before α-pinene is switched on. **(c)**: As in (a), but for Limonene. **(b)**: As in (a), but for β-pinene.