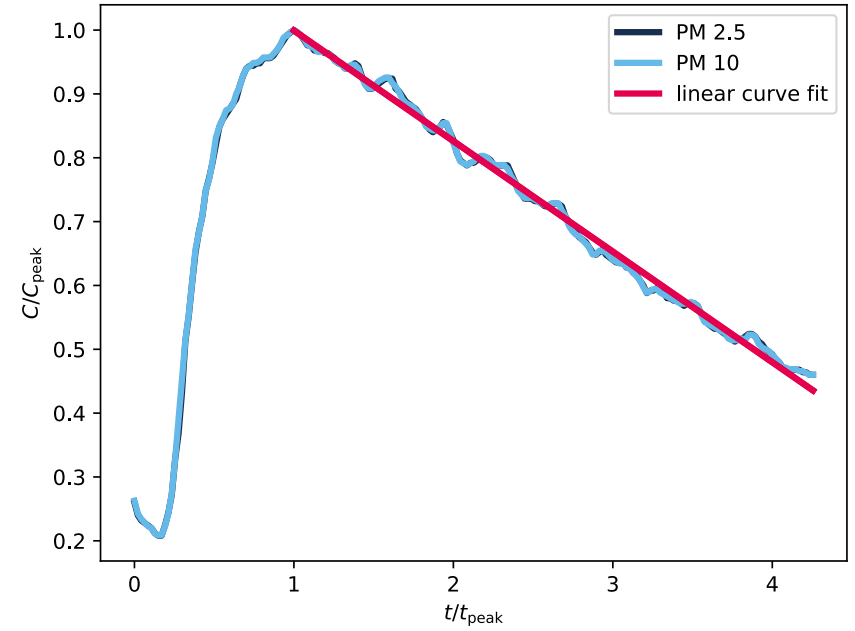


(a) PM 2.5 fine particles detection when sprayed as fine or large water droplets. The experiment gives the same results for the PM 10. Water has no influence over  $CO_2$  detection.



(b) Observed losses normalized by the pollution peak instant and height. Linear curve fit that models the losses against time :  $\frac{C}{C_{peak}} = 0,17 \frac{t}{t_{peak}} + 1,17$

FIGURE 1 – Control experiment

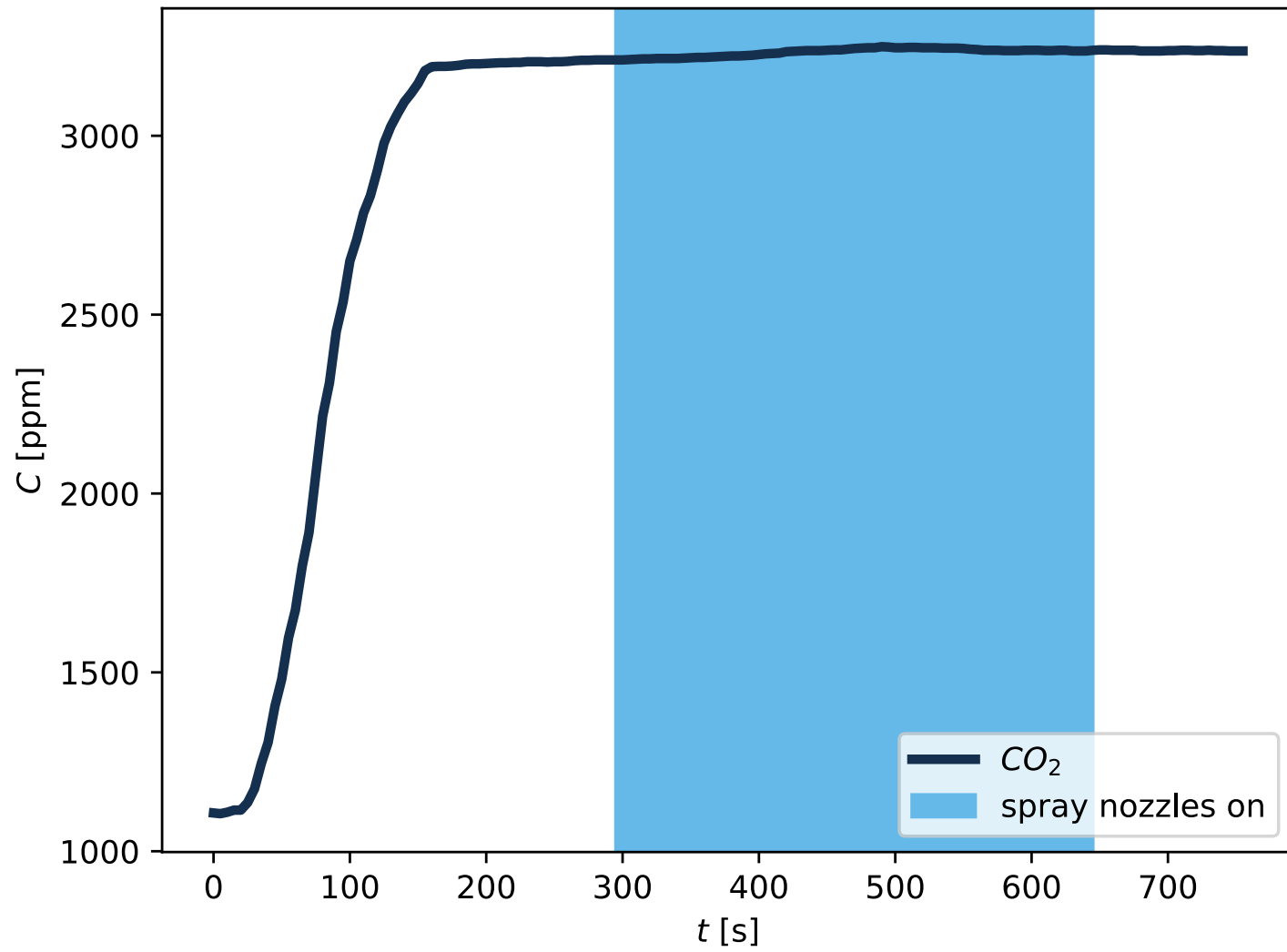


FIGURE 2 – Non influence of the water mist on  $CO_2$ . Water spraying as fine droplets.

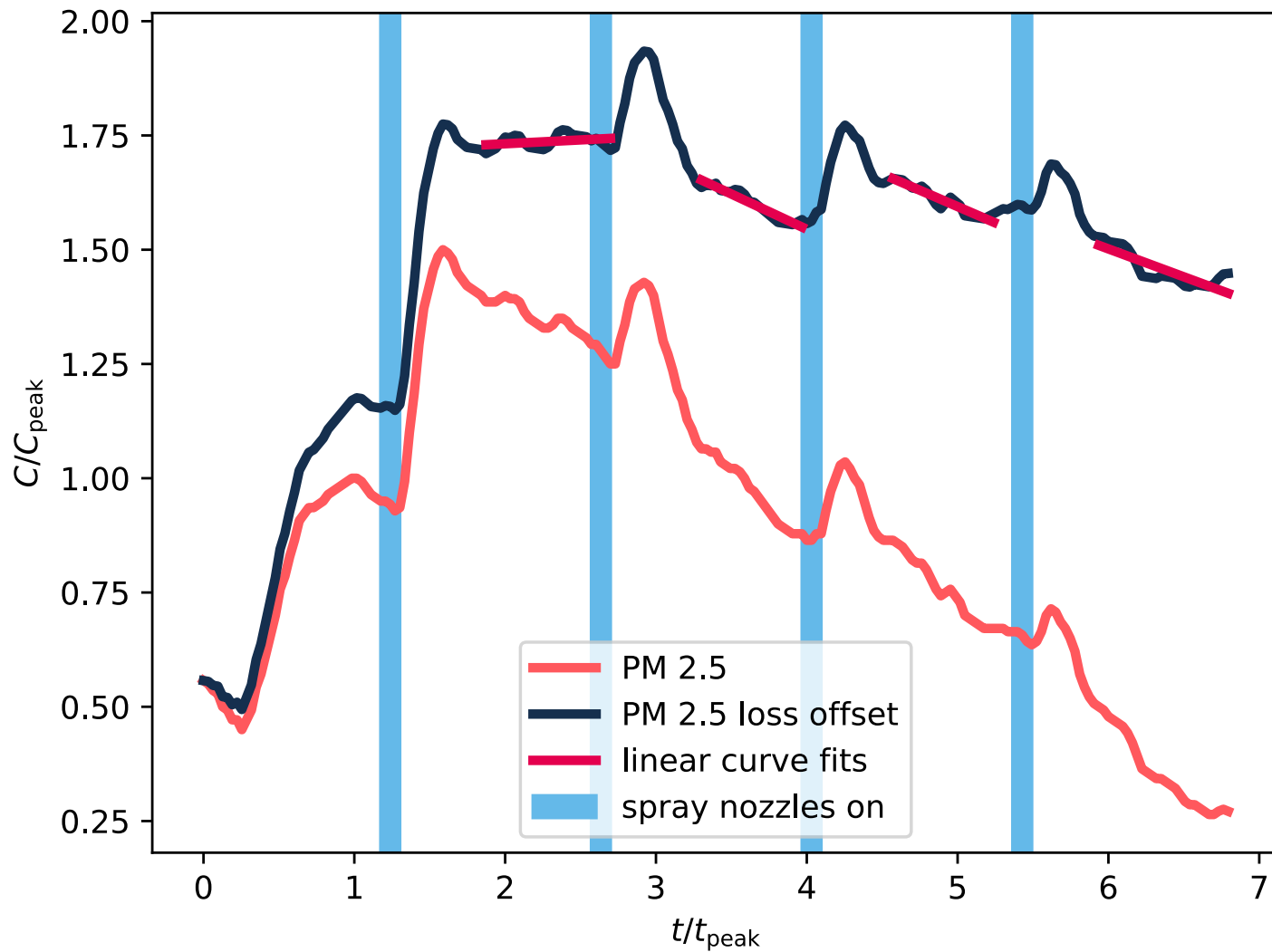


FIGURE 3 – 20 s large water droplets spraying cycles, spaced by 200 s. Time is relative to the first pollution peak. Plot of the same experiment with losses compensated. Pollution successive reduction slopes when loss-compensated : 0, 016 ; -0, 15 ; -0, 14 ; -0, 12.