Particle Size Characterization and VOCs Adsorbed in PM2.5 at the Naucalpan Site

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In this poster we present results of three studies performed at the Naucalpan site: (1) a physical characterization of PM10 and its diurnal variations, (2) PM2.5 concentration temporal variations, and (3) the VOCs chemical analysis adsorbed in PM2.5 samples. The particle size distributions where obtained for five ranges of PM10: 0.3 -0.5, 0.5-1.0, 1.0-2.5, 2.5-5.0, and 5.0-10.0. The results show a diurnal variation of the PM10 coarse fraction, while the fine fraction (PM2.5) remains very stable during the day. The PM2.5 concentration data shows daily average values of 50 micrograms/m3 at the beginning and at the end of the study, with values close to 15 micrograms/m3 during the weeks two and three of the study. VOCs adsorbed in particles were detected and others were below the limits of detection. These results are being analyzed.