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VOLATILE ORGANIC COMPONENT ANALYSIS IN KAĞITHANE

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ABSTRACT

Istanbul is the biggest city of Turkey with population, industry and economy. There is a lot study about air pollution level of the city and most of them included only some basic air pollution parameters like PM10, SO2 and NO2. However, it has many risks to human health, relatively little is known about the levels of VOC in Istanbul. Air pollutant in the cities contains many components that originate from a wide range of industrial, heating, motor vehicle, and natural emissions sources. Turkish National Union of Geodesy and Geophysics (TUJJB) and Turkish Scientific and Technical Research Council Project (TÜBİTAK) are supporting air quality studies and one of them is Volatile Organic Component (VOC) Analysis in Kağıthane valley. In this study, ambient air quality measurements of 8 VOCs (Benzene, Toluene, m,p Xlene, Hexane, Heptane, Ethylbenzene, 1,3,5 Trimethyl benzene and 1,2,4 Trimethyl benzene) are analyzed and compared with literature values.

Keywords: Volatile Organic Compounds (VOC), air quality level, Kağıthane, İstanbul.

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