

## **Abstract for IAQ2004**

**Title:** Environmental impact of laser induced papers compared to manually treated paper samples

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### **Abstract**

Environmental effects of laser cleaning of paper samples are compared to the environmental effects of manually treated paper samples. For this purpose, the cleaning of self adhesive tape was demonstrated by means of a UV laser and by means of organic solvents. During both treatments the emissions of Volatile Organic Compounds were measured.

Based on the obtained results it can be concluded, that laser cleaning of posters containing pressure sensitive tapes has a significant lower impact (approximately 40 %) on the exposure to employees of emitted volatile organic compounds. For both locations, none of the found compounds exceeded the maximum acceptable value (MAC level).

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