

The Methods for Analysis of Volatile Compounds Related to Odor in Railway Stations, etc.

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We carried out investigation of railway customers' consciousness on hygiene and of airborne microbes in railway stations. From the results, we guessed that volatile compounds released from fungi partially caused odors of stations, and accordingly decided to try to analyze them. We used SPME (solid phase micro-extraction) - GCMS (gas chromatography-mass spectrometry) as a method for analysis of airborne volatile compounds, and investigated analytical conditions. We applied this method to analysis of field air, and found out that different results were obtained from the analysis of the different locations having different odors. Thus we confirmed that this method is suitable for field analysis.