

技术交流

顶空气相色谱-质谱联用法测定卷烟材料中的溶剂残留

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摘要 采用顶空气相色谱-质谱联用 (HS-GC/MS) 法测定烟草行业标准YC263 2008卷烟条与包装纸中挥发性有机物溶剂残留, 根据物质峰面积和标样浓度, 计算回归方程, 以及16种溶剂的线性范围、回收率、检出限、精密度等。通过胶粘剂、纸品样的实际检测, 验证了方法的可行性, 有效避免顶空气相色谱法的干扰问题, 顶空气质联用法能准确地检测残留气体。

关键词 [静态顶空](#) [气质联用](#) [溶剂残留](#) [卷烟材料](#)

分类号

Determination of Residual Solvents in Cigarette Materials by Headspace Gas Chromatography-Mass Spectrometry

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Abstract Total of 16 volatile organic residual solvent compounds in the cigarette paper and the wrapping paper listed in standard YC263-2008 were analyzed by headspace gas chromatography-mass spectrometry(HS-GC/MS). The linear range, recovery rate, precision and detection limit of the 16 residual solvents were tested. The method proved to be successful by the testing results of the adhesive and wrapping paper samples, which can avoid the disturbance problem brought by HS-GC. The results show that HS-GC/MS tests the residual solvents effectively, and the accuracy of HS-GC/MS is better than HS-GC.

Key words [static-headspace](#) [GC/MS](#) [residual](#) [solvents](#) [cigarette](#) [materials](#)

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