

SOLID PHASE MICROEXTRACTION GAS CHROMATOGRAPHY MASS SPECTROMETRY FOR THE DETECTION OF EXPLOSIVES AND DRUGS

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Solid Phase Microextraction (SPME) lends itself to the extraction of volatile compounds from complex mixtures. When coupled to Gas Chromatography Mass Spectrometry SPME is a powerful technique for a range of analytical and forensic investigations. Recent work have shown the potential for derivatisation SPME-GCMS for analysis of amphetamine type drugs¹ and ammonium nitrate fuel oil explosives². This poster outlines the continued work in identification of the derivatisation products and their fragments from the detection of ammonium based explosives.

Brown, H Kirkbride, KP Pigou, PE and **Walker, GS** New Developments In SPME Part 1: The Use Of Vapour-Phase Deprotonation and On-Fibre Derivatisation With Alkylchloroformates In The Analysis Of Illicit Drug Preparations, Journal of Forensic Science , November 2003, Vol 48, No.6

Brown, H Kirkbride, KP Pigou, PE and Walker, GS New Developments In SPME Part II: The Analysis Of ANFO Explosives, Journal of Forensic Science in 2003. March 2004, Vol 49, No.2