

**A Novel Calibration Strategy for Residual Solvents Analysis by Static
Headspace Gas Chromatography**
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The development of a solvents analyser which allows the automatic determination of a range of common process solvents in API will be described. Application of Quality by Design principles has allowed the development of an alternative calibration strategy which offers significantly higher precision compared to those strategies normally employed in laboratories supporting chemical process development.

By using extensive response factor information gained over a 2.5 year period coupled with instrument, method and procedural standardisation, delivered using platform technology, it has been possible to remove the requirement to calibrate instrumentation every time an analysis is performed. This talk will look at the fundamental aspects of the calibration process that underpin this strategy and an overview of analyser performance will be presented.