

# SIMPLIFY YOUR ASSESSMENT OF VOC EMISSIONS FROM RAW MATERIALS AND FINISHED GOODS

The Measure of Confidence



## Agilent Materials Emissions TD-GC/MS Application Kit

International regulatory developments, together with consumer-driven “green” initiatives, have increased the demand for reliable assessment and labeling of products for chemical emissions. These regulations are having a particularly strong impact on manufacturers of adhesives/sealants, building materials, coatings, cleaning products, furniture, and polymers/plastics.

To make matters even more challenging, characterizing chemicals in raw materials and finished products is a multi-step process that can take days – or weeks – to perform.

### **Fulfill regulatory and “green product” compliance requirements more quickly and cost efficiently**

Agilent’s Materials Emissions TD-GC/MS Application Kit facilitates routine testing, and is built around a check standard developed specifically for this application.

The kit includes a ready-prepared thermal desorption tube containing compounds that are relevant to materials emissions testing legislation – and that represent a range of volatilities and polarities found in country-specific lists. This allows you to thoroughly test your TD-GC/MS system setup for sensitivity, chromatographic performance, and carryover.

In addition, an optional Microchamber Thermal Extractor ensures the reproducible profiling of emissions from sample materials.

**The Agilent Materials Emissions TD-GC/MS Application Kit includes the following components – allowing you to spend *less time* on method development and *more time* on system calibration and validation per your SOPs:**

- Analytical column
- Materials emissions cold traps
- Materials emissions check standard (10/pkg)
- CD with TD and GC method conditions
- Tenax TD tubes (10/pkg)
- Related accessories needed to update your lab’s current system



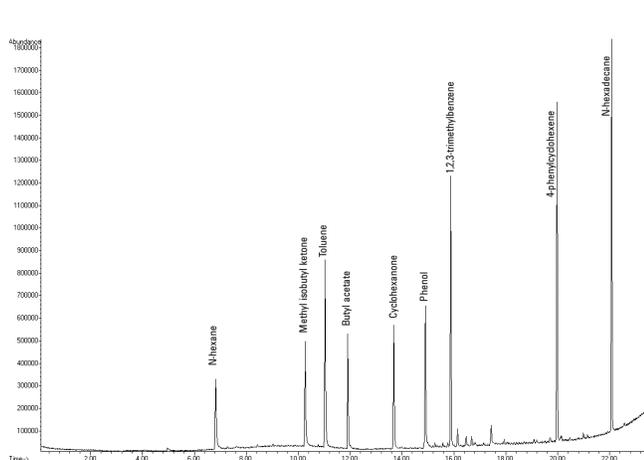
**Agilent Technologies**

# Confidently set up routine TD-GC/MS testing of emissions from construction products and consumer goods

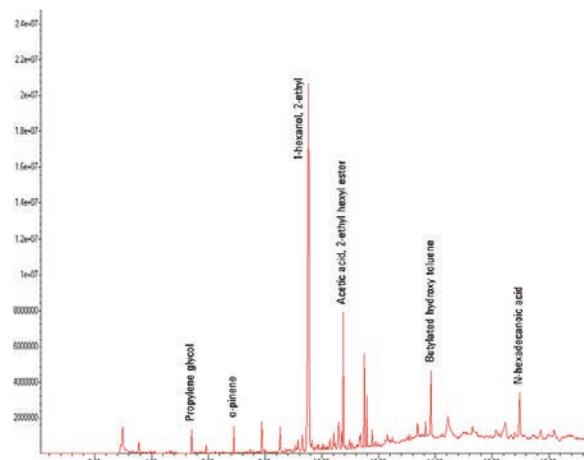
The Agilent Materials Emissions Application Kit lets you leverage your *new or existing* hardware to deploy methods developed by our chemists. The complete kit includes the check standard, GC/MS operating conditions, and consumables you need to comply with methods governing materials emissions – including:

- ISO 16000 (Parts -6, -9, -10, and -11)
- ASTM D6196, D5116, D6330, D6670, D7143 and D7339
- ISO 16000-25 and ASTM D7706 (with optional microchamber extraction used instead of standard long-term sampling chambers)

Run real-life samples under the proper conditions immediately following system checkout



Chromatogram from materials emissions check standard analyzed under Application Kit conditions. The check standard is a prepared TD tube containing the materials emissions testing compounds specified by legislation.



Emissions chromatogram from a vinyl floor tile adhesive. The analysis was carried out using the microchamber at 40 °C with 50 mL/min air flow for 20 min.

## Ordering information:

Consult with your Agilent Account Manager or visit [www.agilent.com/chem](http://www.agilent.com/chem)

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Printed in U.S.A., April 10, 2013  
5991-1626EN