

Press Release

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TOC in sediments and soils Suspension method successfully confirmed in round-robin tests

Less effort and complexity at high analytical reliability

Shimadzu, one of the world leaders in analytical instrumentation, has developed a new application for TOC (Total Organic Carbon) in solids, in cooperation with the Federal Environmental Agency in Berlin and ALBO-tec in Bochum, Germany. Using the suspension method, TOC values can be determined in solids such as sediments and soils with significantly less effort and high analytical reliability. The suspended solid can be analyzed as a fluid – comparable to a wastewater sample. A special solid sampler is not needed, which considerably reduces purchasing costs.

In addition to extensive comparative measurements carried out in part via reference materials, the suspension method was also confirmed by successful participation in two WEPAL (Wageningen Evaluating Programmes for Analytical Laboratories) round robin tests carried out in Wageningen, the Netherlands. WEPAL is

responsible for carrying out evaluation programs for the validation of analytical methods.

During the two round robin tests, several sediment and soil samples were analyzed. Three out of 17 and 32 participants respectively, have determined the TOC values independently of each other using the suspension method.

TOC measurements of the suspensions were carried out using Shimadzu's TOC-V analyzer and ASI-V autosampler. Via the optimized sample injection technique offered by the ISP (Integrated Sample Pretreatment) module, suspensions can be optimally quantified.

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