

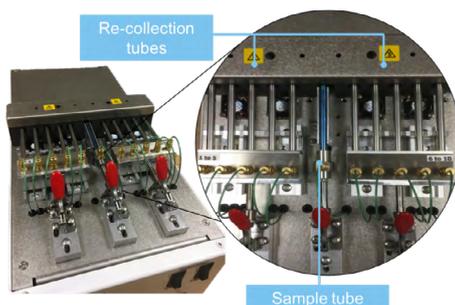
## Re-collect 10

### Easy-to-use replicate generation for sorbent-tube samples

Re-collect 10 enables you to reliably generate up to ten replicates from a single sample, opening up numerous options for valuable 'one-off' samples.

Samples of VOCs and SVOCs acquired for many applications – such as biological processes, pollution events and food degradation – are a unique 'snapshot' of a specific event. This means that it is difficult to ensure quality control, or archive samples for future use.

Re-collect 10 solves this issue, by desorbing a sample, and 'splitting' it onto ten re-collection tubes. This opens up numerous options for the analyst, including sample re-analysis, easy creation of standards, inter-lab studies, replicate standard generation, sample stabilisation, and sample pooling for QC.



**On Re-collect 10, the original sample tube is heated and desorbed in a flow of carrier gas to quantitatively split and re-collect the analytes on up to ten sorbent-packed tubes.**

### Simultaneously create multiple standard tubes

Manually spiking multiple tubes with liquid standards is time-consuming and laborious, and repeating this process for ten tubes would take most analysts **1–2 hours**.

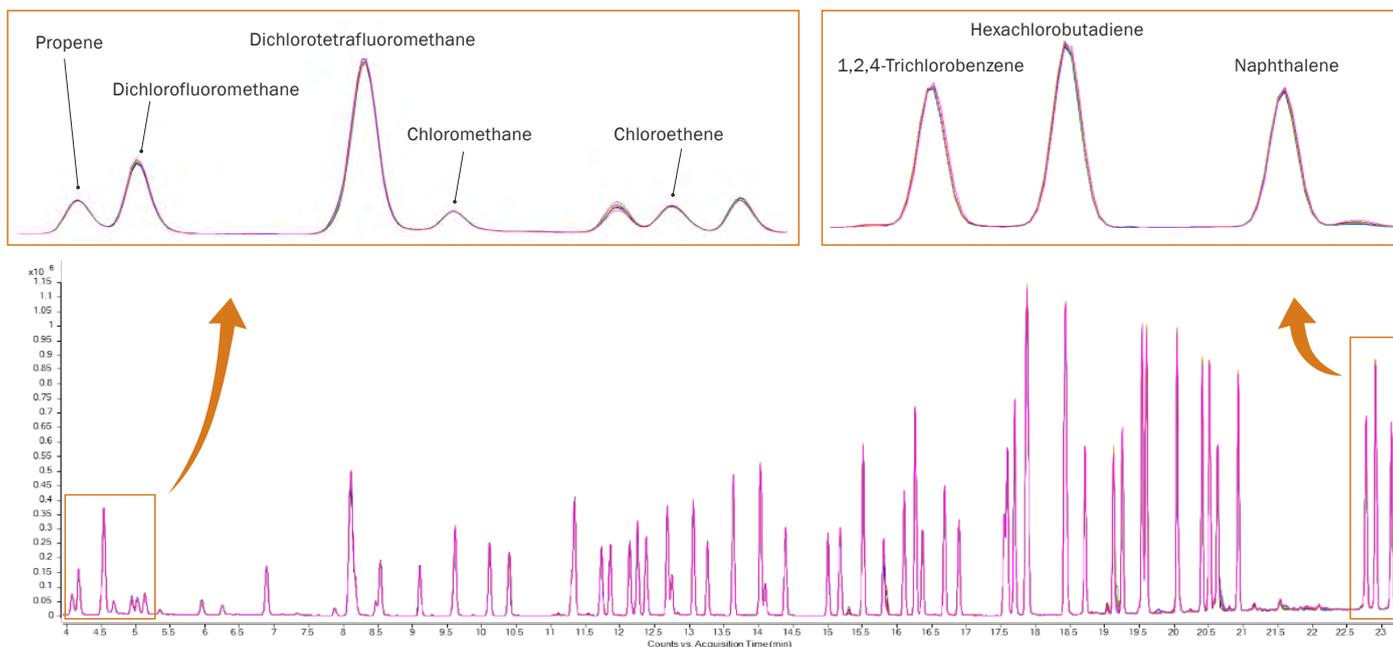
Re-collect 10 enables you to spike one tube with a high-concentration standard and then reliably split it over ten re-collection tubes, reducing the whole process to just **10–15 minutes**.

Importantly, the amount of material sent to each re-collection tube is just 10% of what it was previously. This means that the solvent loading is also much lower, which reduces the purge time and lowers solvent consumption/waste – all without compromising spiking precision. It also extends the analyte range because it allows stronger sorbents to be used.



### Product highlights

- Easily produce ten replicates from a single sample.
- Automate the creation of multiple standard tubes.
- Reduce solvent loading onto tubes without compromising spiking precision.
- Create pooled QC samples prior to analysis.
- Stabilise samples onto solid sorbents.



The reproducibility of the splitting and re-collection process used by Re-collect 10 is demonstrated by the near-perfect overlay of ten replicate T0-17 standard tubes at 5 ppb, created from a single tube spiked with 50 ppb.

## Stabilising samples on sorbents

Re-collect 10 is suitable for all sample types, and is especially useful for creating stabilised duplicates of 'one-off' samples that would otherwise be prone to degradation, such as breath, biological samples or food. Using Re-collect 10 therefore allows you to store such samples for longer before analysis.

### Technical specifications

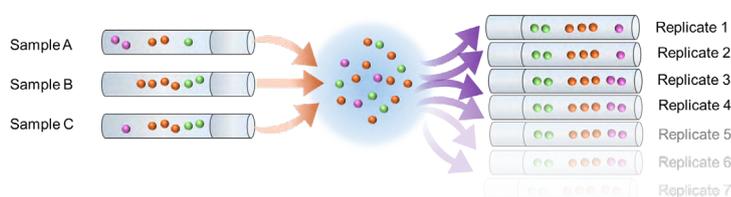
- **Tube size:** 3½" × ¼" (industry-standard)
- **Sample types:** Sorbent tubes, TF-SPME, HiSorb, and direct desorption of solids
- **Settings:** On-board adjustment of temperatures and flows without the need for a PC. Control software available
- **Desorption temperature:** 50–425 °C
- **Dimensions:** H 36 cm × W 23 cm × D 56 cm

## Pooled QC for untargeted metabolomics

In untargeted metabolomics or extended analytical sequences, it is important to use an accurate and representative standard for quality control (QC). However, off-the-shelf standards are unlikely to be truly representative and will not contain matrix components, so it is best practice for QC protocols in such applications to pool the samples.

Re-collect 10 provides a simple and efficient method for blending multiple samples, to create pooled QC samples that can be distributed throughout the analytical sequence. This enables

regular assessment of data quality, timely batch correction, and better monitoring of system performance and maintenance requirements.



**Using Re-collect 10 for QC protocols enables multiple samples to be pooled and up to ten replicates generated from it – quickly and easily.**

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