

## **Shelf life, storage life and odour transfer of odour samples for mantrailing sniffer dogs**

### ***Kurzbeschreibung***

Human odour samples are often taken with cotton pads and are subsequently used for the odour input of mantrailing dogs. Samples are not taken and used immediately. Instead, the odour samples are packaged and stored for a certain period of time - often together with other samples. Mantrailing dogs are also used by police forces in connection with serious crimes. The quality of the odour samples used in this context, in particular questions of durability and odour transfer between samples, is therefore of particular importance.

In this and subsequent works, these questions will be investigated using methods of instrumental chemical analysis. For this purpose, odour carriers loaded with test substances are to be stored in the packaging used in practice under the usual storage conditions. Substance losses and substance transfers between the odour carriers are to be investigated and compared using instrumental analytical methods and also via the detection behaviour of sniffer dogs.

### ***Zuordnung zu Institut / Einrichtung***

Institut für Sicherheitsforschung (ISF)

### ***Ansprechpartner***

Professor Dr. P. Kaul

Betreuung: Christopher Becher

### ***Voraussetzungen / Anforderungen an Interessent:innen***

- Interest in instrumental analytical methods, namely Headspace GC-MS
- ability to precise lab work
- ability to provide targeted tests planning
- study in natural science