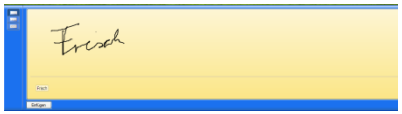
OFD Olfactory Detector (Sniffer)

- absolutely **olfactory neutrality** of all components, esp. the insulating of the transfer line (odorless even at temperatures **up to 300 °C**)
- **heatable transfer line** without “cold spots“, optional with temperature program corresponding to the GC run
- addition of humidified air prevents the nasal mucosa from drying out
- comfortable working position due to the vertically adjustable sniffing port

SIM

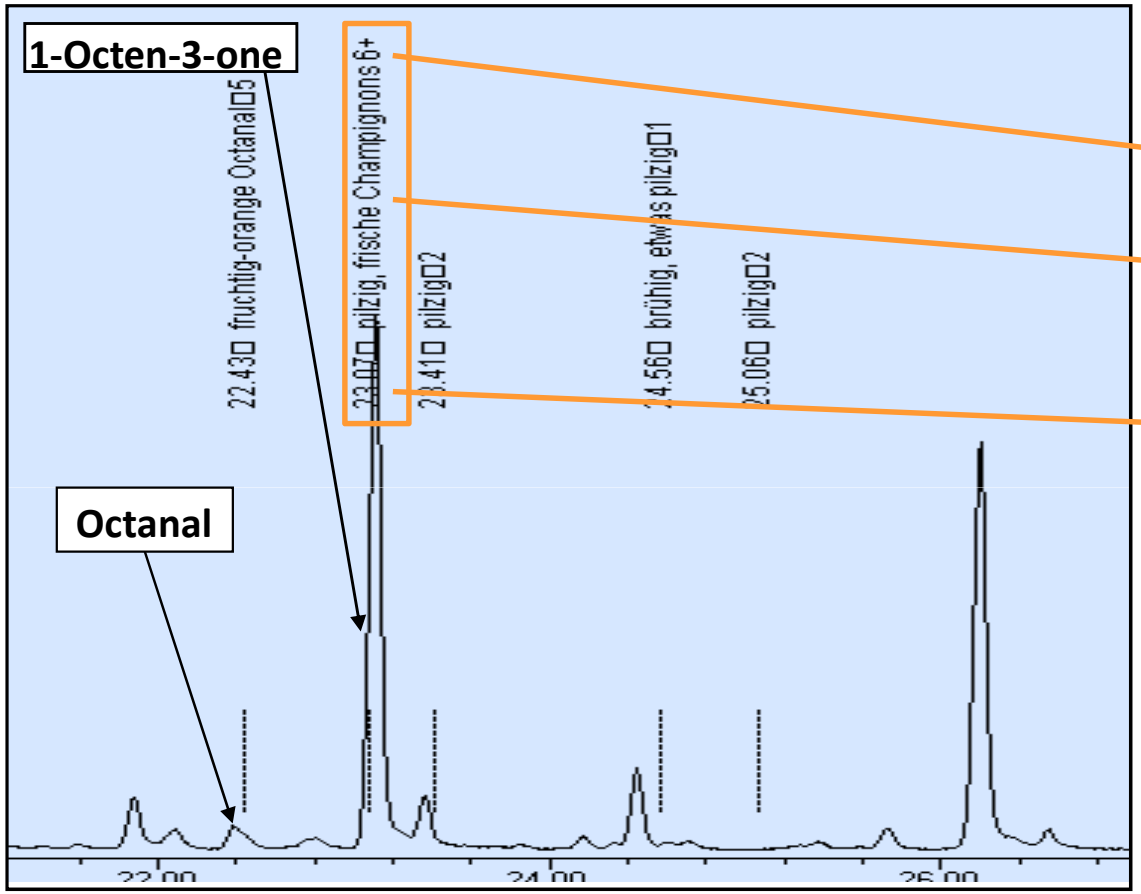
OFD Olfactory Detector (Sniffer)



- simultaneous detection with other GC detectors (e.g. FID, ECD, MSD) using different splitters (standard parallel splitter, microfluidic splitter, microfluidic Deans Switch) with manual control or EPC
- different ways for rapid recording of odor impressions and intensities (short cuts, menu bar, via keyboard or pen tablet)
- integrated in Agilent ChemStation / MS ChemStation:
  - odor impressions/intensity added to chromatogram
  - temperature of transfer line and all gas flows are saved in the methods
  - olfactogram is saved in the folder of the GC run

SIM

OFD Analysis of a Mushroom Extract



1-Octen-3-on
(character impact compound)
Intensity: +6

Odor Impression:
fresh mushrooms
(pilzig, frische Champignons)

Retention Time:
23.41 min

Sample:
Chinese Matsutake
(Tricholoma matsutake),
pentane/dichloromethane
extract
(detail 21.5 – 27 min)

GC: Agilent 68/7890, column Varian CP7889 50m x 0.32mm x:0.4µm, Inlet: PTV, Split 1:1, 250 °C, carrier gas: He (1.27 ml/min), oven program: 50 °C for 5 min, to 240 °C at 2 °C/min, hold for 60 min

MSD: capillary to MSD: 0.4 m x 0.1 mm x 0 µm, He: 2.36 ml/min, EI-Scan 35-390 amu

OFD: capillary to OFD: 1.28 m x 0.1 mm x 0 µm, He: 5.0 ml/min,

SIM