

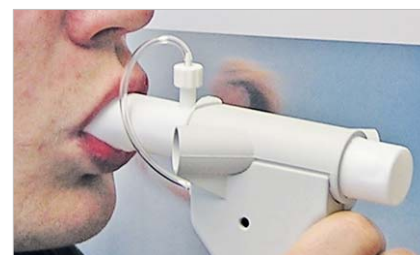
Detection of Volatile Organic Compounds in human Breath

The BreathSpec[®] enables a fast screening of volatile metabolites in human breath without any sample preparation. Good differentiation of breath patterns after consuming various candies (Wildberry, Black current and Peppermint) were achieved.

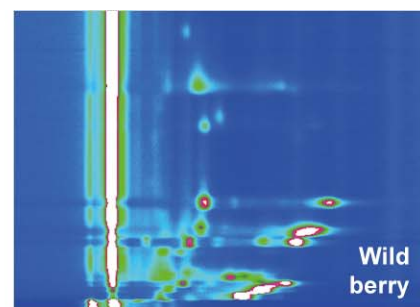
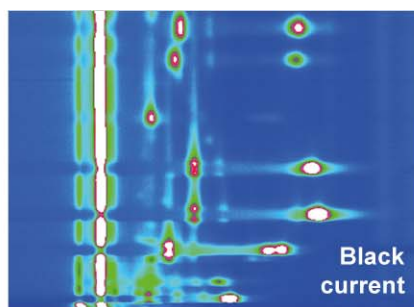
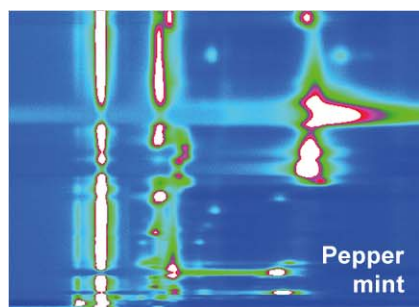
Marker substances within the human breath as valuable carrier of implicit information on several diseases as well as exposition to hazardous compounds become feasible by using the BreathSpec[®].


 BreathSpec[®]

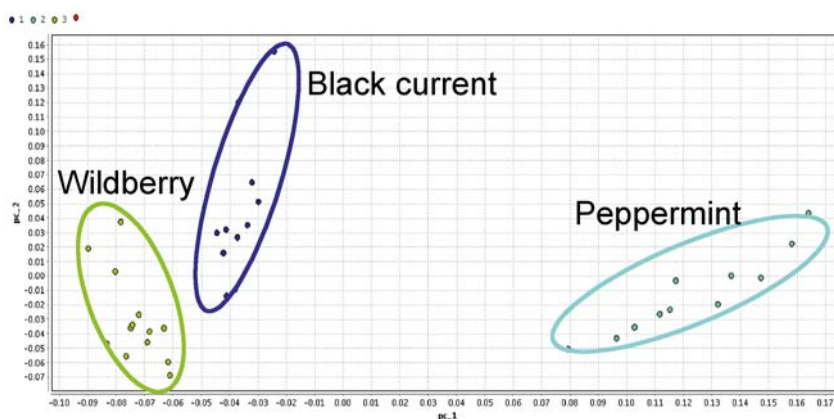
BreathSpec[®]
Total analysis run time: 10 minutes
Column type: MCC - 20 cm length, OV5
Column Temperature: 50 °C
Column carrier gas flow rate: 100 mL/min
Drift gas flow rate: 500 mL/min
Drift gas/Carrier gas: Nitrogen 5.0 (99.999%)
IMS temperature: 45 °C
Injector temperature: 45 °C



Spirometer for sampling



Topographic plot of IMS Chromatogram



Classification