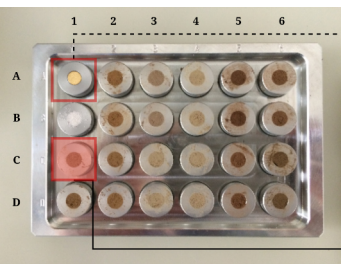


24-well plates: gold standard + milled soils



mid-infrared spectrometer with high-throughput module (ca. 200 soil samples per day)



each spectrum (line): snapshot of molecular soil composition (vibrations of functional groups)

**Soil organic matter (carbohydrates, lignin, cellulose, proteins, chars, phenolic compounds, organic acids, etc.)**

**Minerals: e.g., Kaolinite (K), Halloysite (H); Quartz (Q)**

