

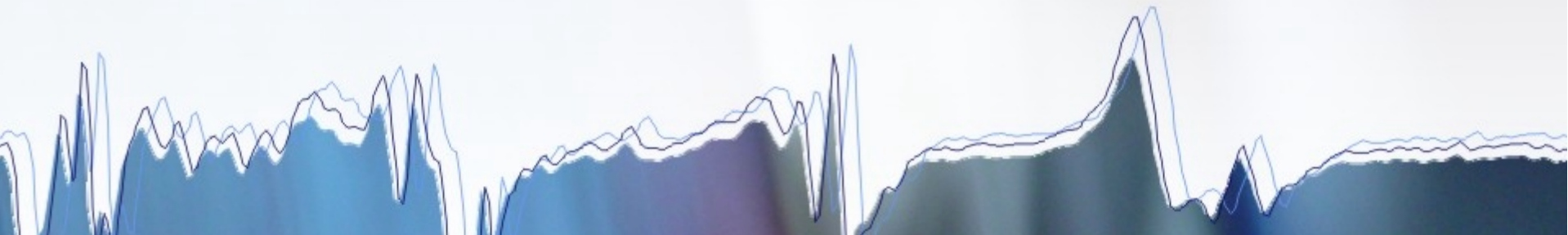


# Identification of extracts

# The background...

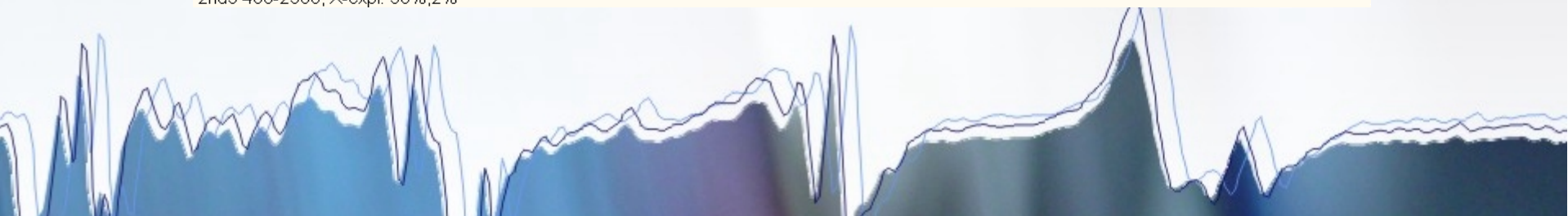
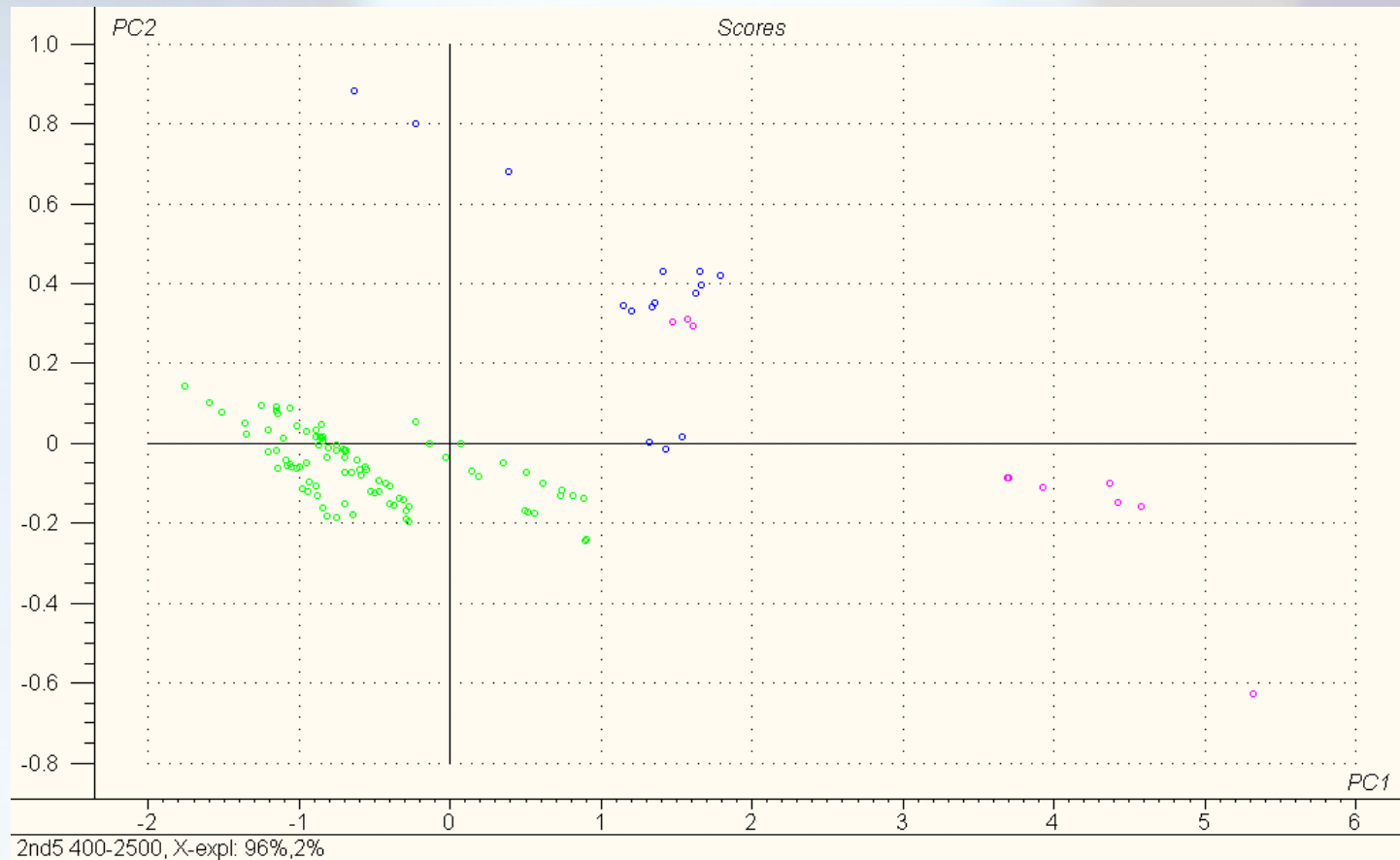
- 34 freeze dried extracts from 3 different companies
- all produced by very similar conditions:  
Ethanol 50%; Ethanol 60%; Methanol 80%
- They can't be distinguished by their colour or appearance

Rapid assignment by NIRS?



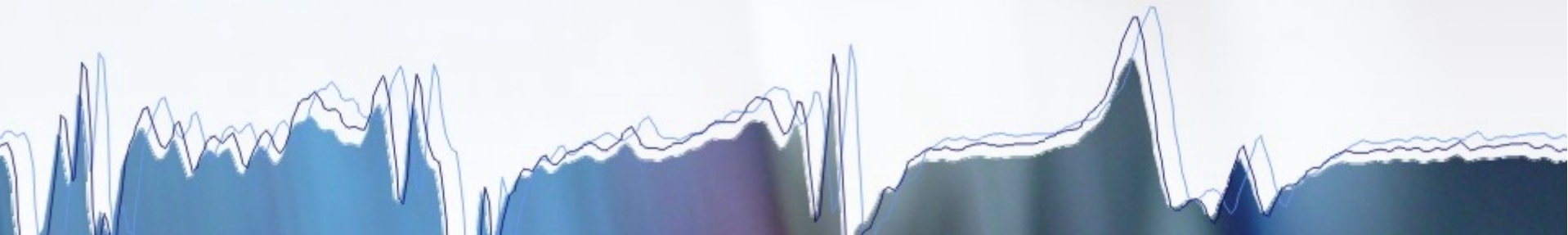
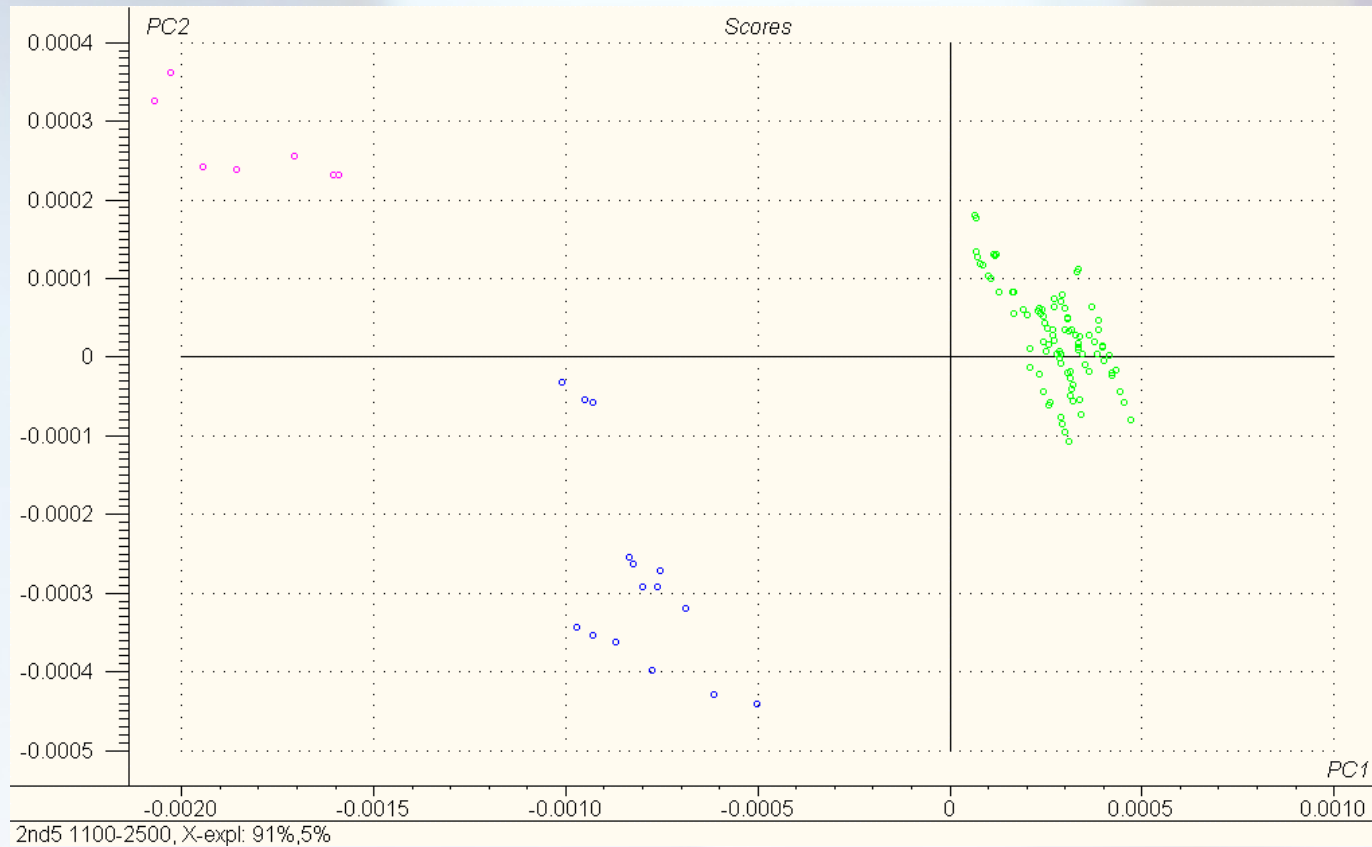
# 2D – scoreplot, PCA

## 400 – 2500 nm

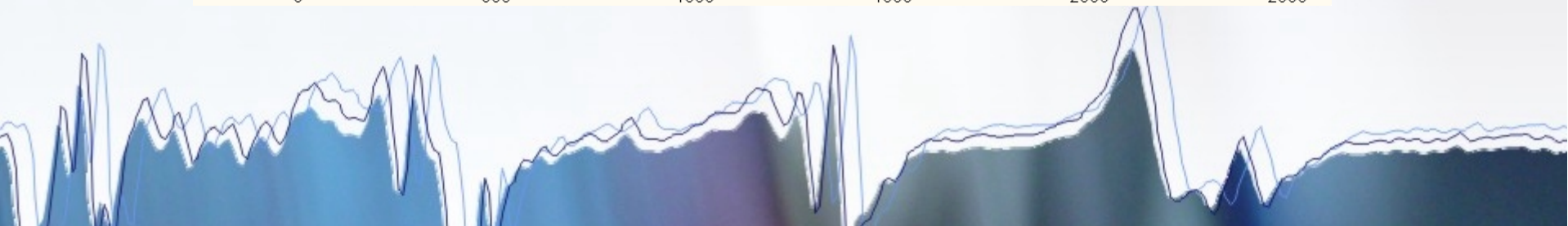
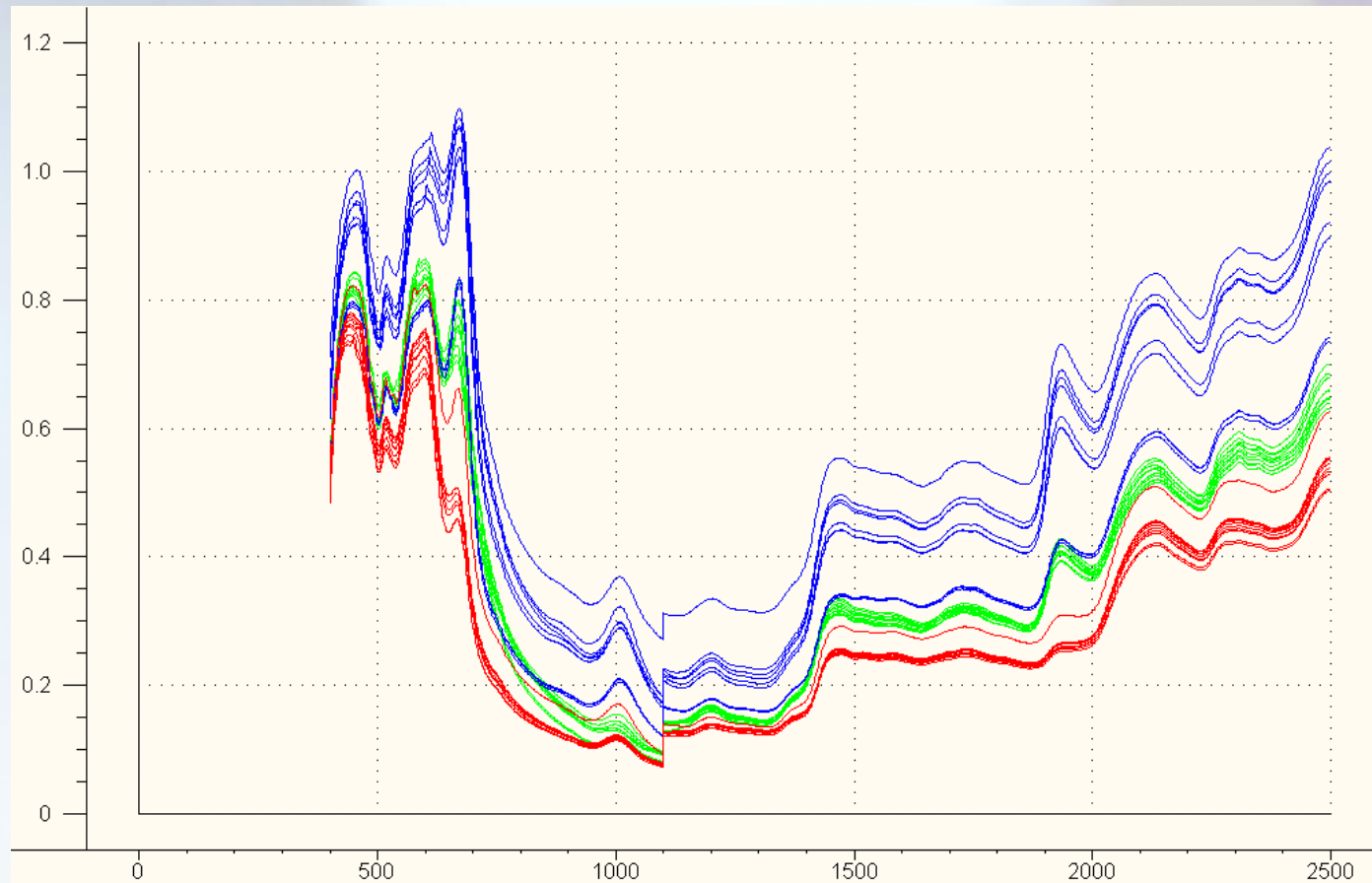


# 2D scoreplot, PCA

## 1100 – 2500 nm



# Original spectra





# Summing up...

- time effort:
  - 1-2 minutes per measurement (triplicates)
  - One hour for spectra pretreatments and PCA
- But:
  - The PCA model can be applied for the classification of further extracts of these three companies.
  - The model has to be expanded for extracts derived from a fourth company.

