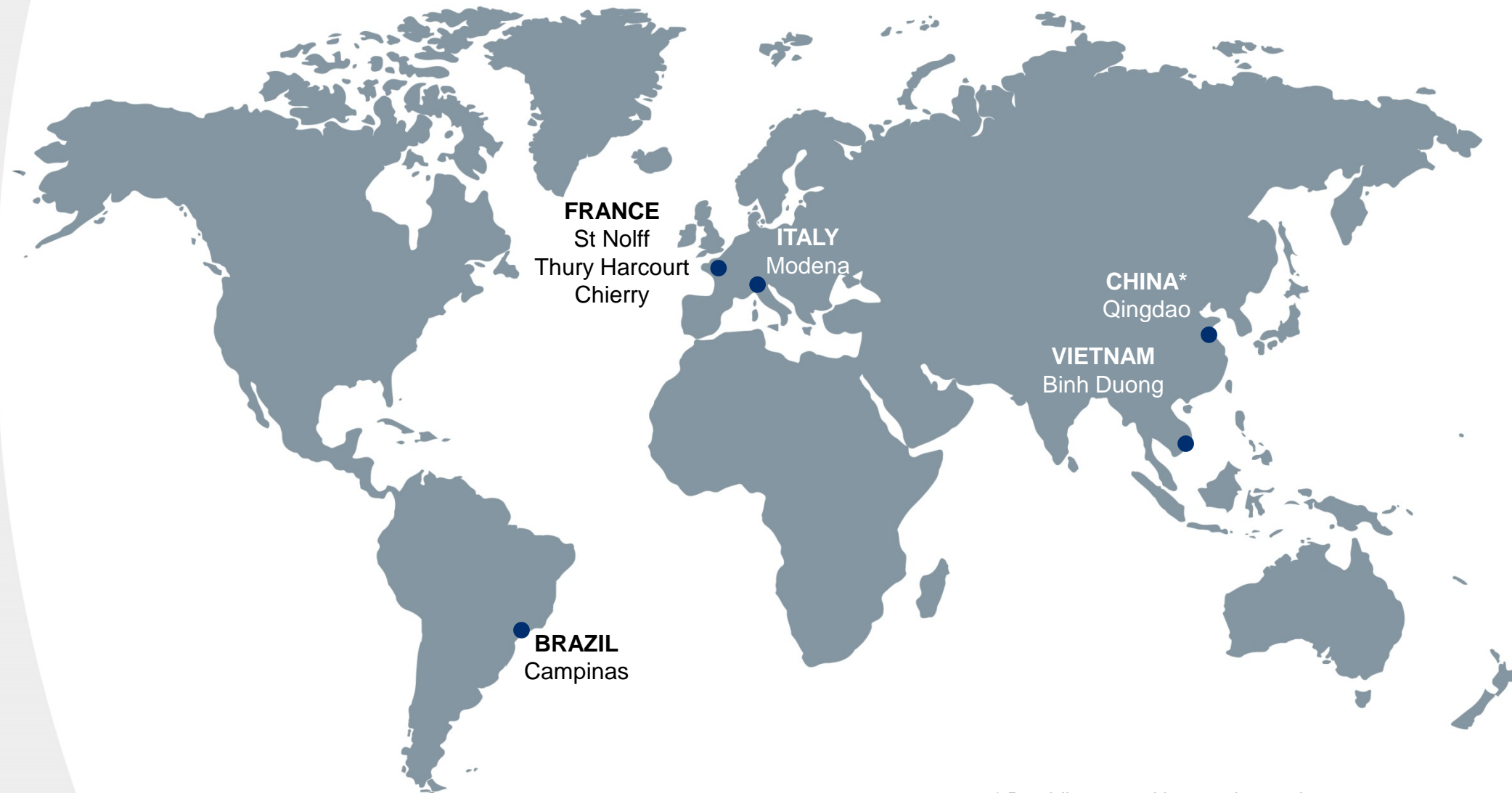# upscience
LABS SOLUTIONS

A network of analytical laboratories specialized in the support of the feed and food industries and in environmental analyses.

HELIOSPIR 27/11/2017   Julien Guillory

UPSCIENCE'S NETWORK

FRANCE
St Nolff
Thury Harcourt
Chierry

ITALY
Modena

CHINA*
Qingdao

VIETNAM
Binh Duong

BRAZIL
Campinas

* Providing consulting services only

KEY FIGURES

6 accredited
laboratories

300
employees

2,000,000
analyses

OUR FIELDS OF EXPERTISE

Agrifood   **Feed**   **Environment**   **Pet food**   **Nutraceuticals**

OUR MISSIONS

*Through a **global analytical solution**,
We support you in all the steps of your
production process.*

SECURE

CONTROL

OPTIMIZE

Quality & reliability

- **Accreditations:**

- **Approved laboratory for:**

> OQUALIM

> INAO

> QS

> Bleu Blanc Cœur

> Industrial Groups

- **Technical memberships:**

> Standardization commissions

   (AFNOR, AOAC International, ISO, BIPEA, AGLAE)

> Animal nutrition commission - fats

> Dietary and food labelling commission

> GMP and mycotoxins commission

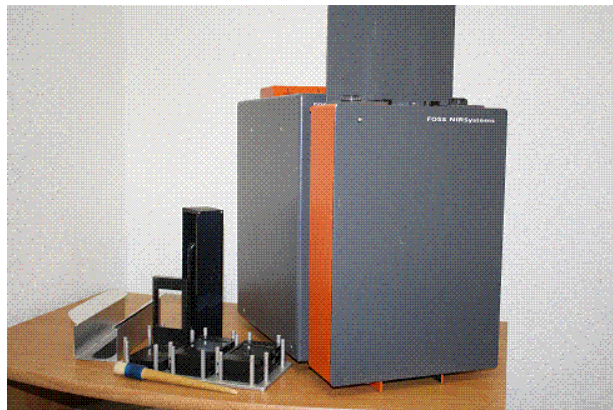> Amino acids, cereals and flour commission

Usecases of NIR in feed industry

- Technical support for customers : coops/feed millers
- Development of quantitative and qualitative prediction models
- Raw materials = cereals, oil byproducts, protein concentrate...
- Finish products = swine, poultry, ruminant, rabbit, horse, petfood
- Forages = corn silage /grass, hay

Issues

- Maintenance of data bases/ instruments
- Transferability of calibrations

Use of NIR for forage caracterization

- 10 models developped on corn silage for in vitro & in vivo digestibility

  - Protein solubility

  - Dry matter solubility

  - Starch digestibility

  - NDF digestibility

- Better knowledge of corn silage => added value for valorization and calculation of ration
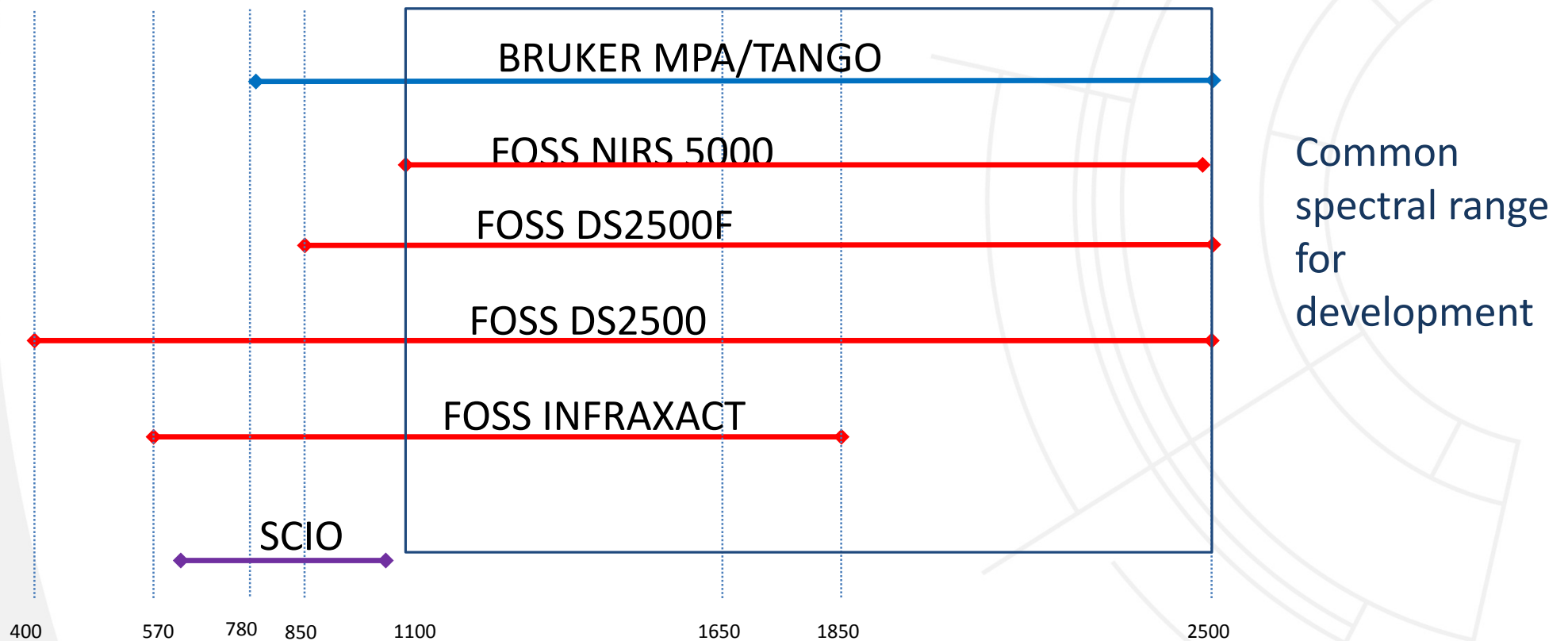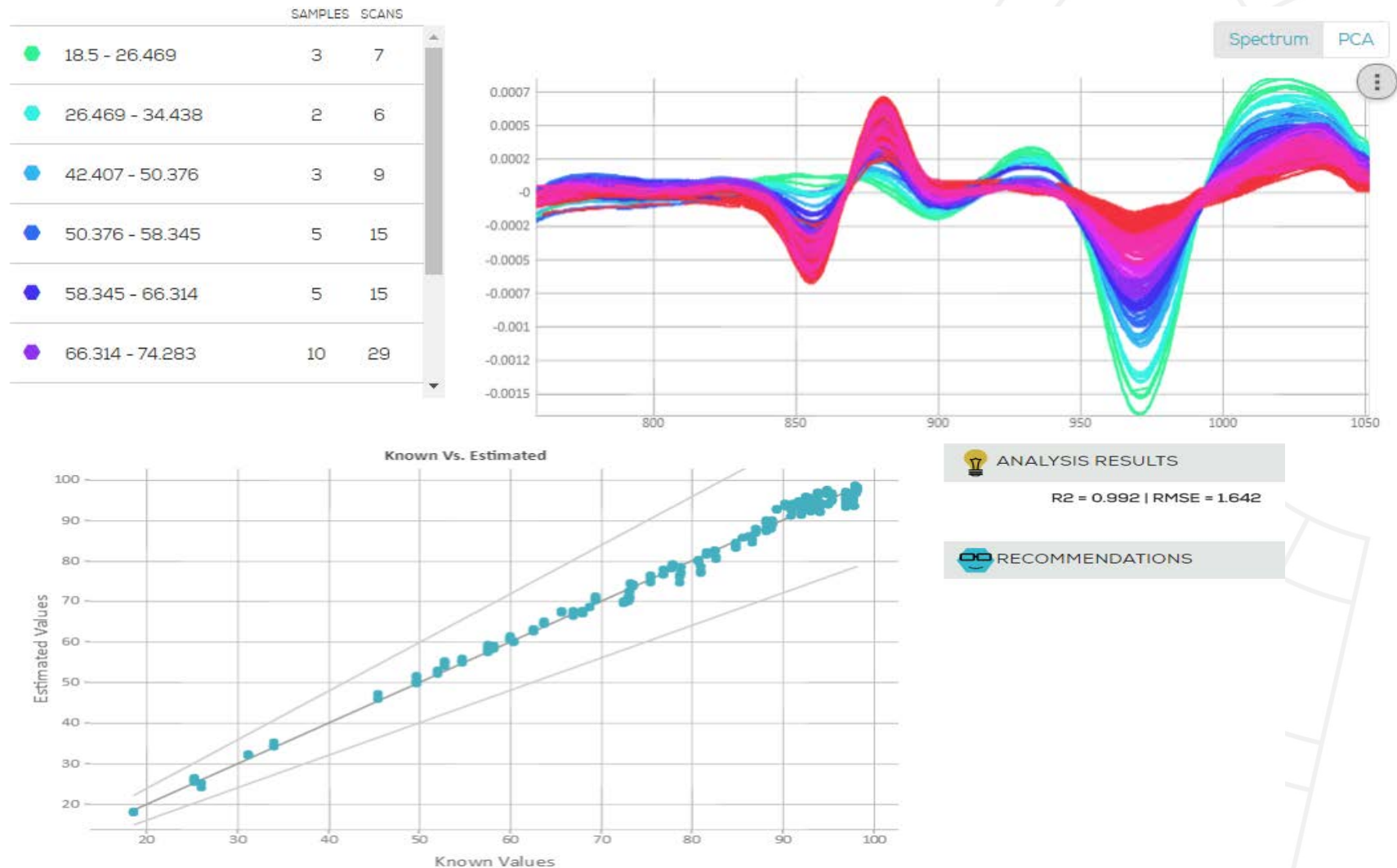
What is SCIO ?
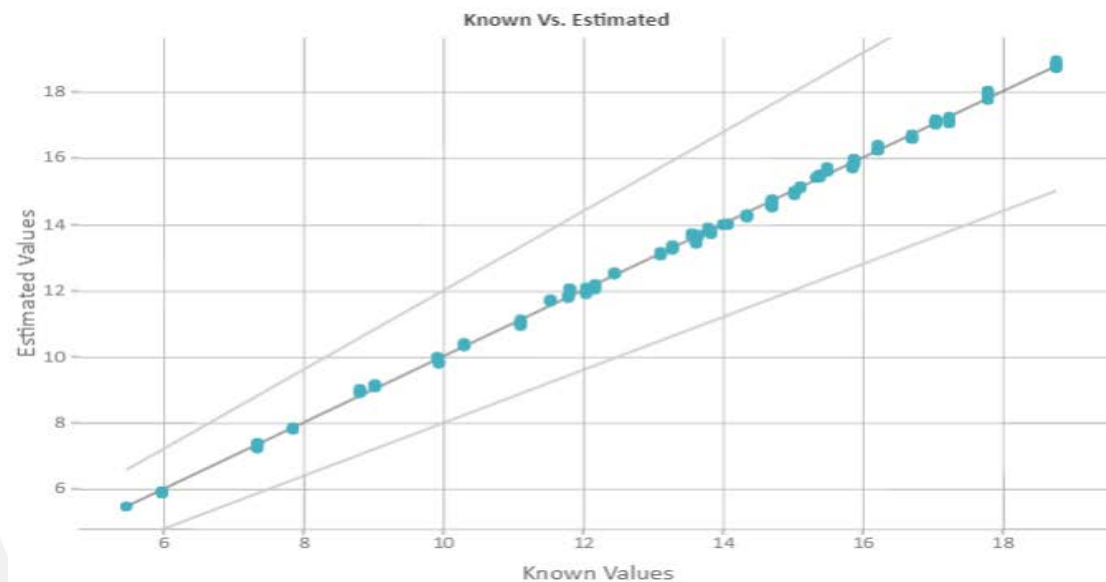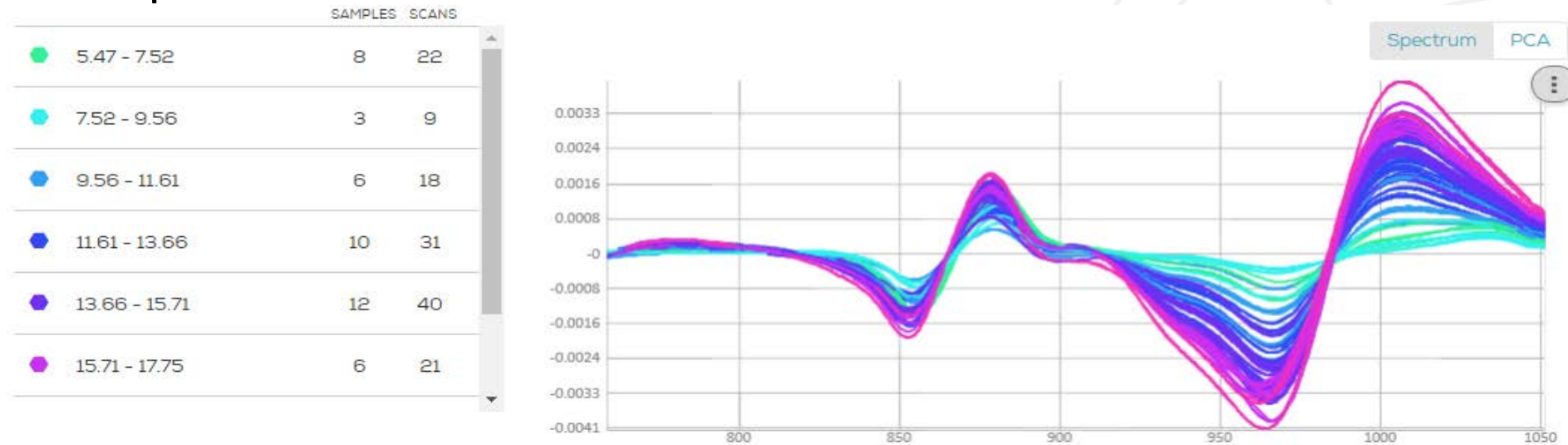

???

What is SCIO ?

- Limits of SCIO ?

Use of NIR for quality control in feed additive industry

- Example for dihydrated saccharine

Use of NIR for quality control in feed additive industry

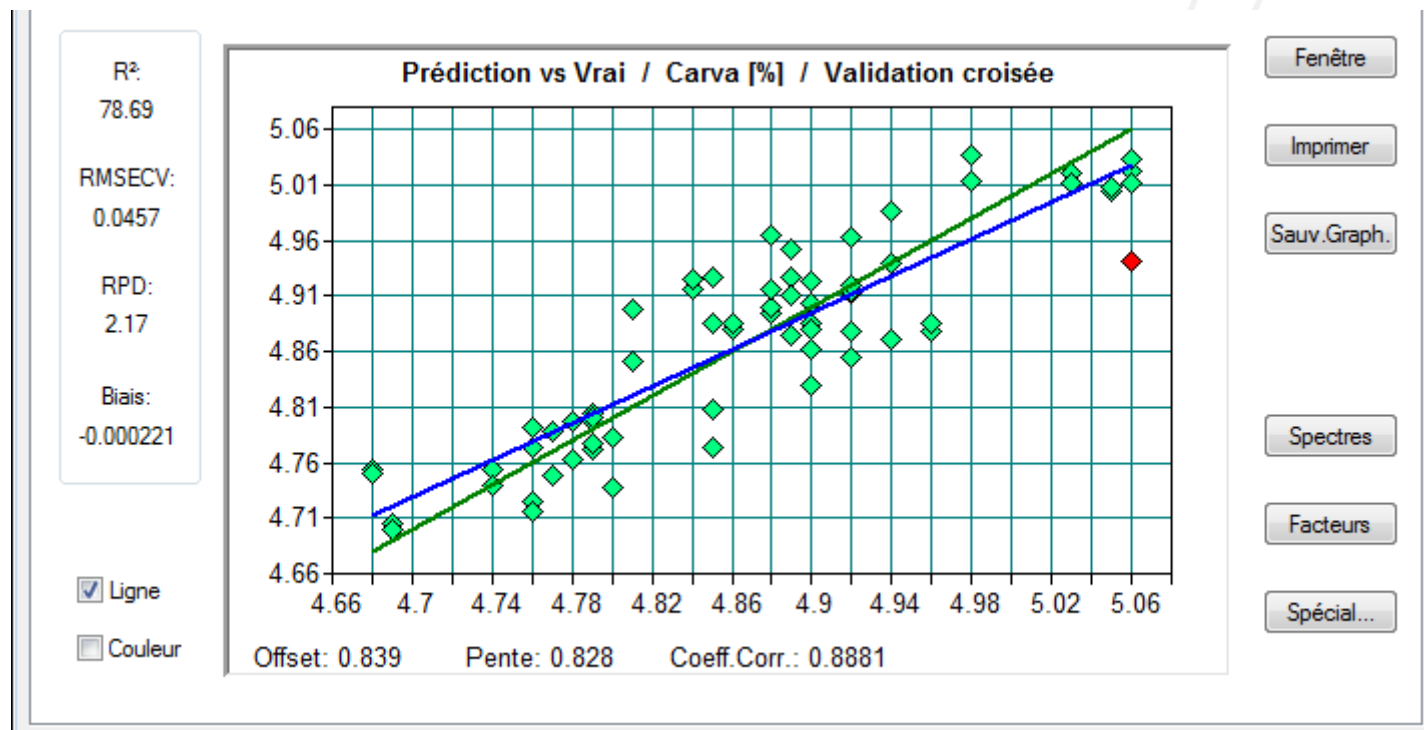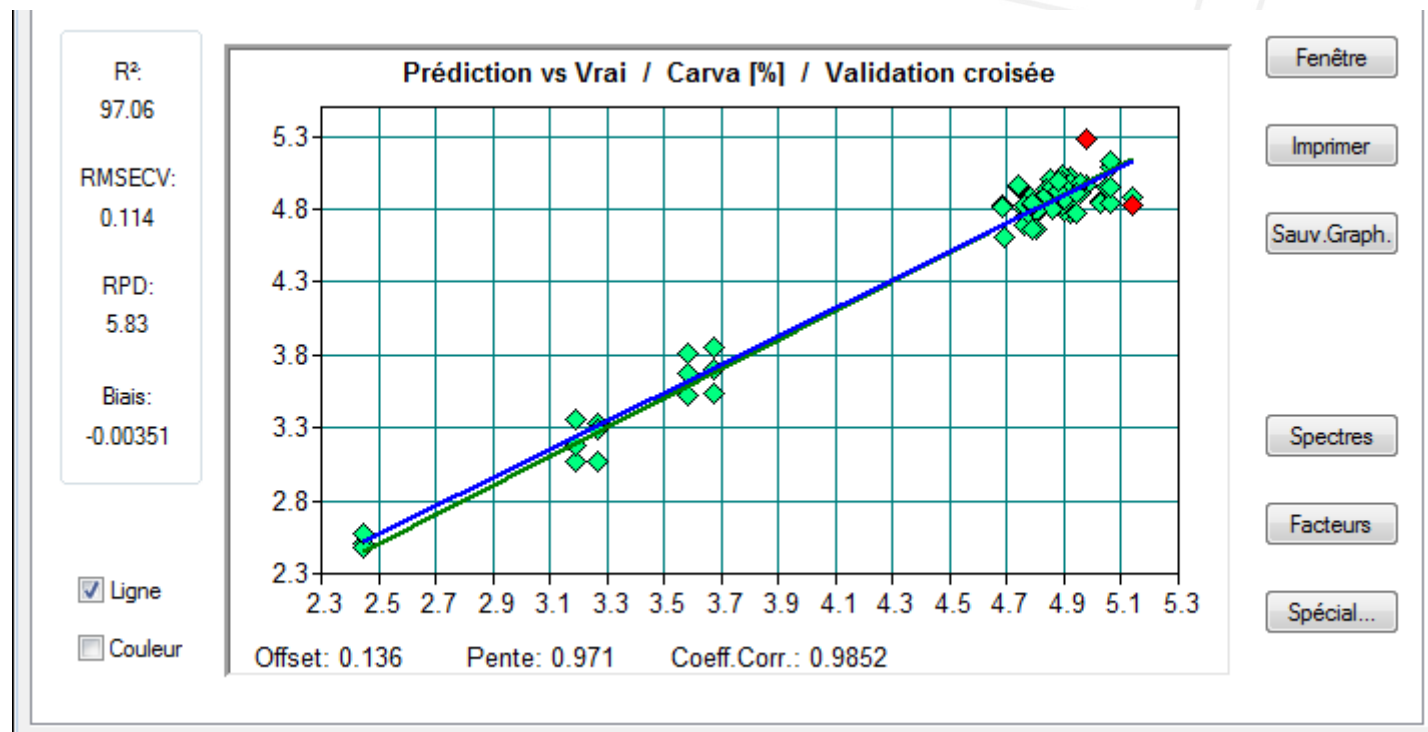- Example for moisture control in a concentrated additive

Use of NIR for quality control in feed additive industry

- Development of a quantitative model for the analysis of a ingredient in additive concentrate (33 samples)

Use of NIR for quality control in feed additive industry

- Same development but with artificial added values by mixing different raw materials

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