



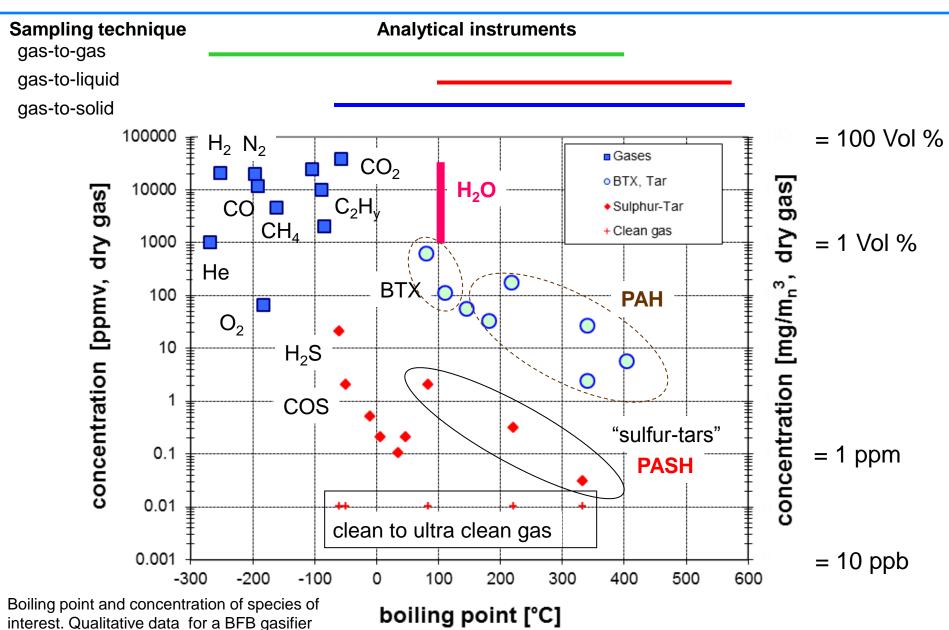
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Generic learning from round robin tests (PSI: Nov. 2013, KIT: March/June 2014) and planed follow up activities

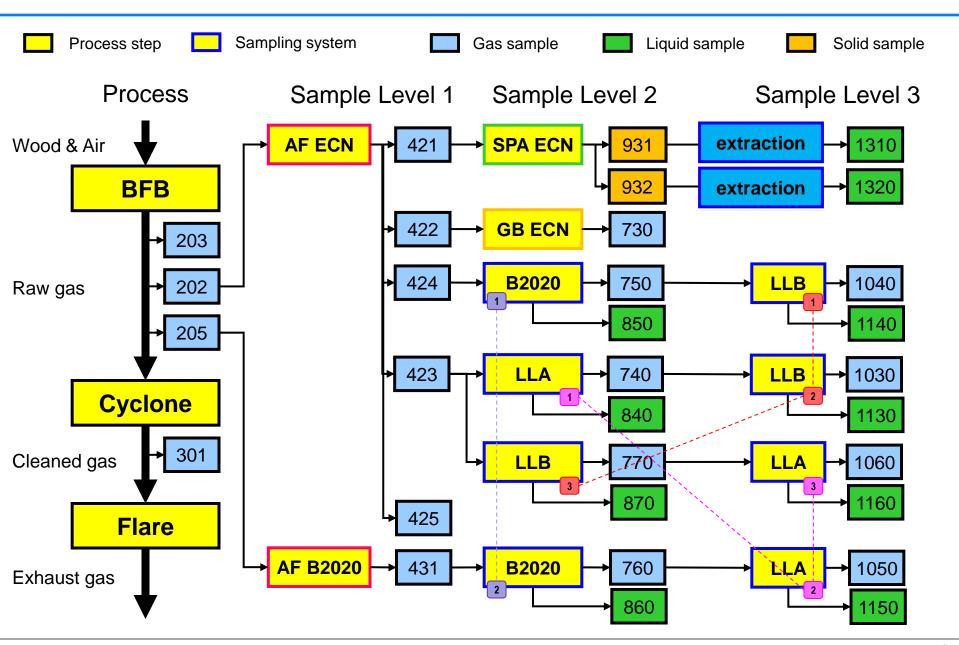


Objective and challenge of campaign/round robin tests





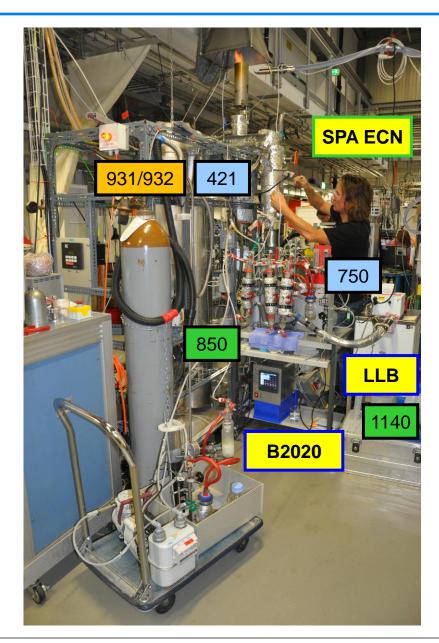
Configuration for round robin test Nov. 2013 @ PSI

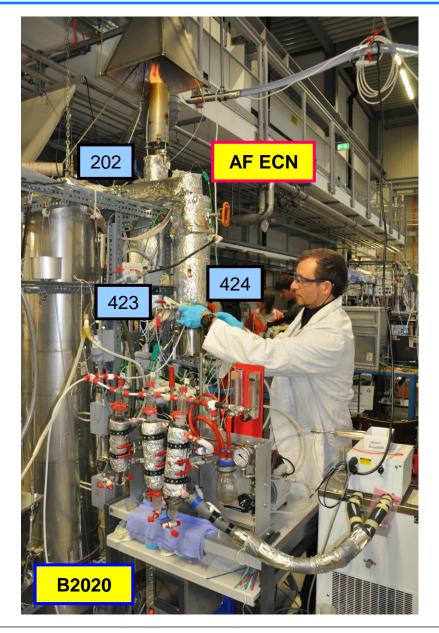


Berlin, 3.4.2014



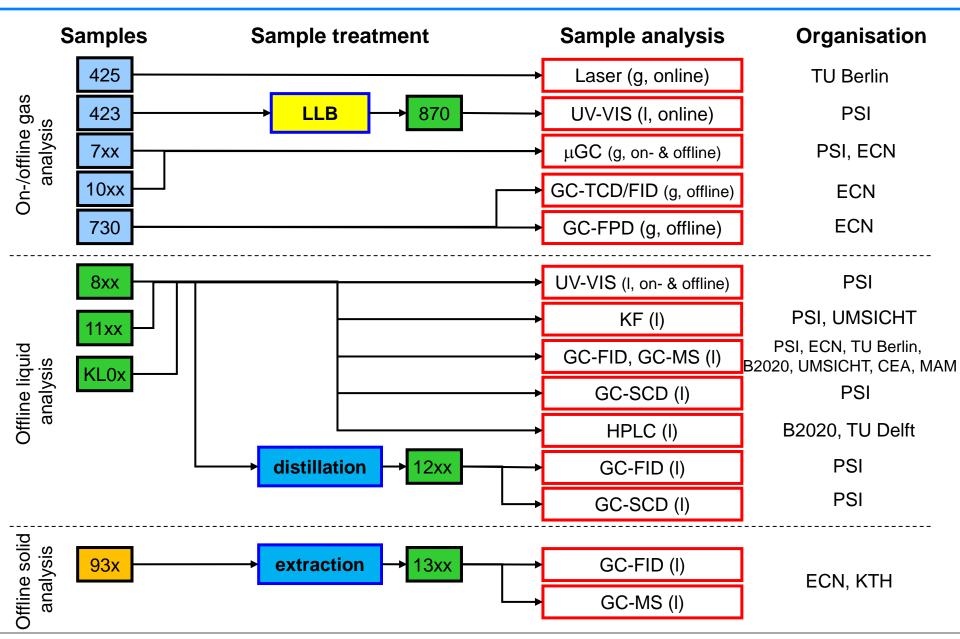
Sampling by ECN & Bioenergy2020+







Sample treatment and on-/offline analysis





Generic learnings from round robin tests

- Bad news: There is always a lack of time in order to prepare all the things which seems to be important
 - Good news: Be focused and do a first step. There are always opportunities for follow up activities.
- Bad news: The main challenge in round robin test is the clarification concerning the numerous interfaces:
 - Background knowledge and common understanding of the "problem"
 - Physical interfaces between installation, sampling systems and analytical instruments
 - Time constrains and alignment of joint interests
 - People with different background (cultural, education and experience)

Good news: If there is a clear Win-Win situation all these challenges can be handled soon or later.

Berlin, 3.4.2014



Generic learnings from round robin tests

- Bad news: From the first idea to perform a round robin test until the finalisation of a report/report it takes 12 to 24 month
 Good news: Technical objectives of round robin test are less important. Much more important is to find partners with similar interest and a commitment to collaborate.
- Bad news: Round robin tests are expensive

Good news: Be creative how you can mobilise resources / money for round robin tests. Low hanging fruits are joint activities which are base on ongoing funded projects.

Round robin tests:

There is no better way to learn from each other, expand the knowledge and move forward bioenergy technologies.



Planed follow up activities

- Consolidate results of past round robin tests, i.e. PSI November 2013, TU Delft June 2012
- Prepare next round robin test, i.e. KIT bioliq installation (May/June 2014), most likely ECN Milena (Fall 2014), PSI (Fall 2014)
- Identify potential host sites and partner who want to participate in round robin tests
- 2 3 WEBinars about generic learning of round robin tests

Berlin, 3.4.2014