Differences between Kj-N and combustion-N

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- Kj-N: Sample+H_2SO_4+cat. Then FIA with diffusion
- Combustion-N: High temp.(950°C, Elementar vario EL)
- Exp. that combustion should give higher N than Kj-N

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- Results : Kj-N gave between 3.5-24% higher results
- Test done some years ago gave accurate results.
- What have we done this time that is different from before?

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- Control samples: Kj-N test since 1995 to test the FIA system and its calibration, within limits.
- CRM: NIST-tomato leaves certified value 3,03 % N±0,15, within limits.
- In-house test, pine needles, tested OK

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- What next?
- Rerun com-N and Kj-N to veryfy the results
- Are the samples not homgeneous enough for the com-N?
- Com-N uses 10 mg/Kj-N 100 mg
- Test on the older interlaboratory tests and on previous samples.
- Or do you have any other ideas?
- A problem is the limited amount of sample