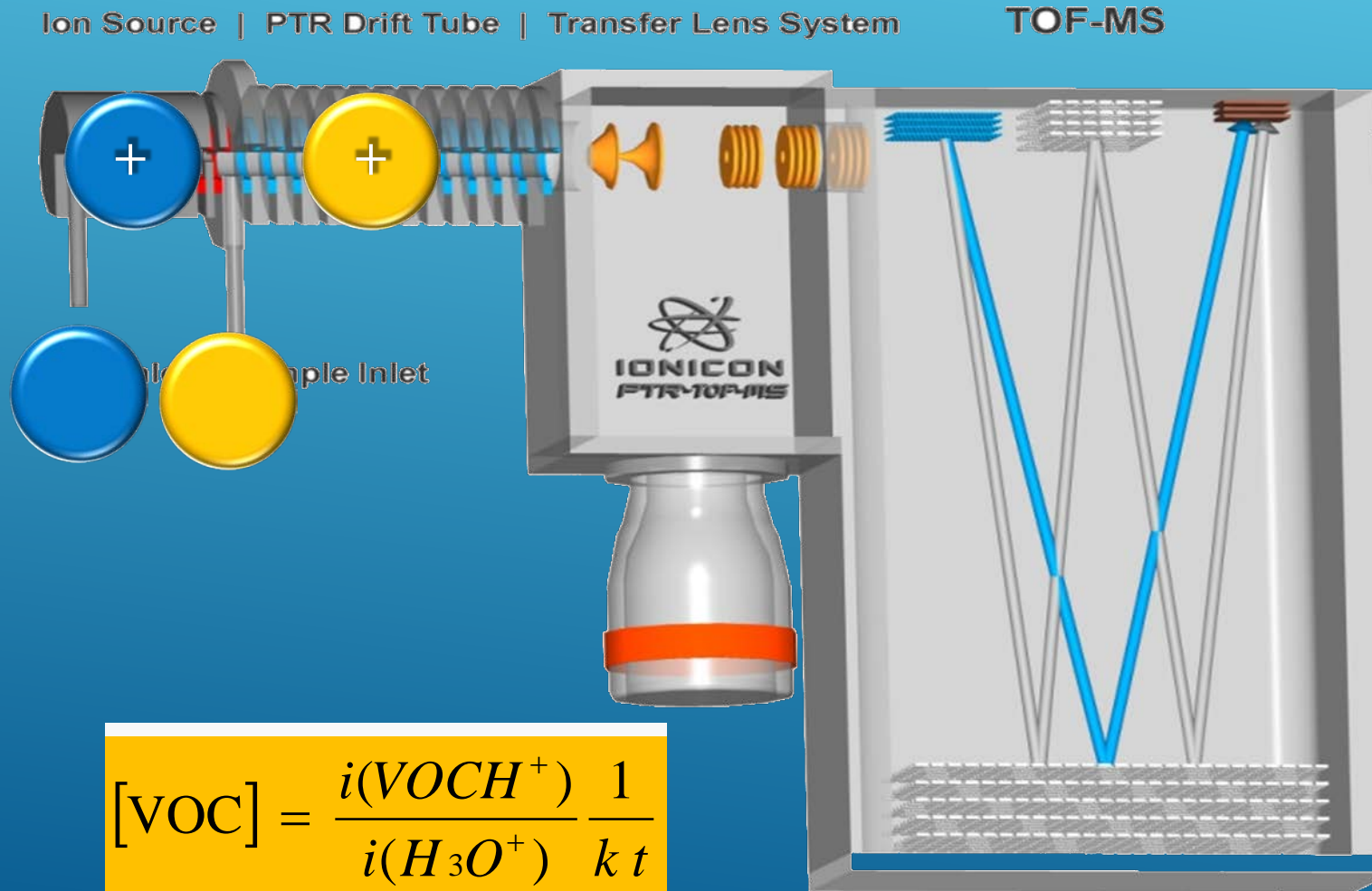


Introduction to the PTR-TOF MS.



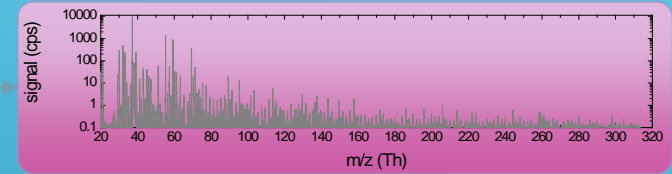
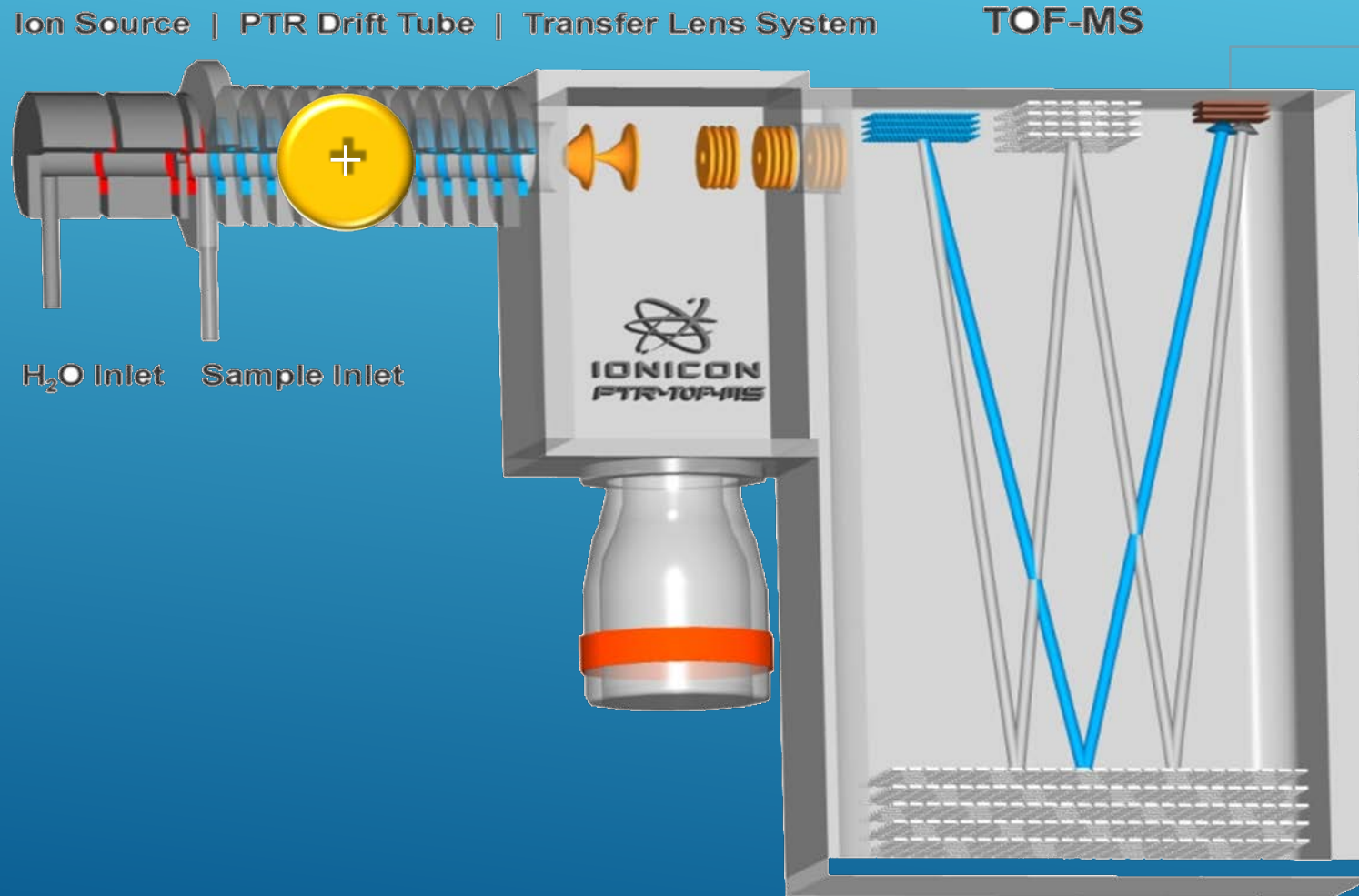
PTR – TIME OF FLIGHT (TOF)



▶ Very efficient

$$[\text{VOC}] = \frac{i(\text{VOCH}^+)}{i(\text{H}_3\text{O}^+)} \frac{1}{k t}$$

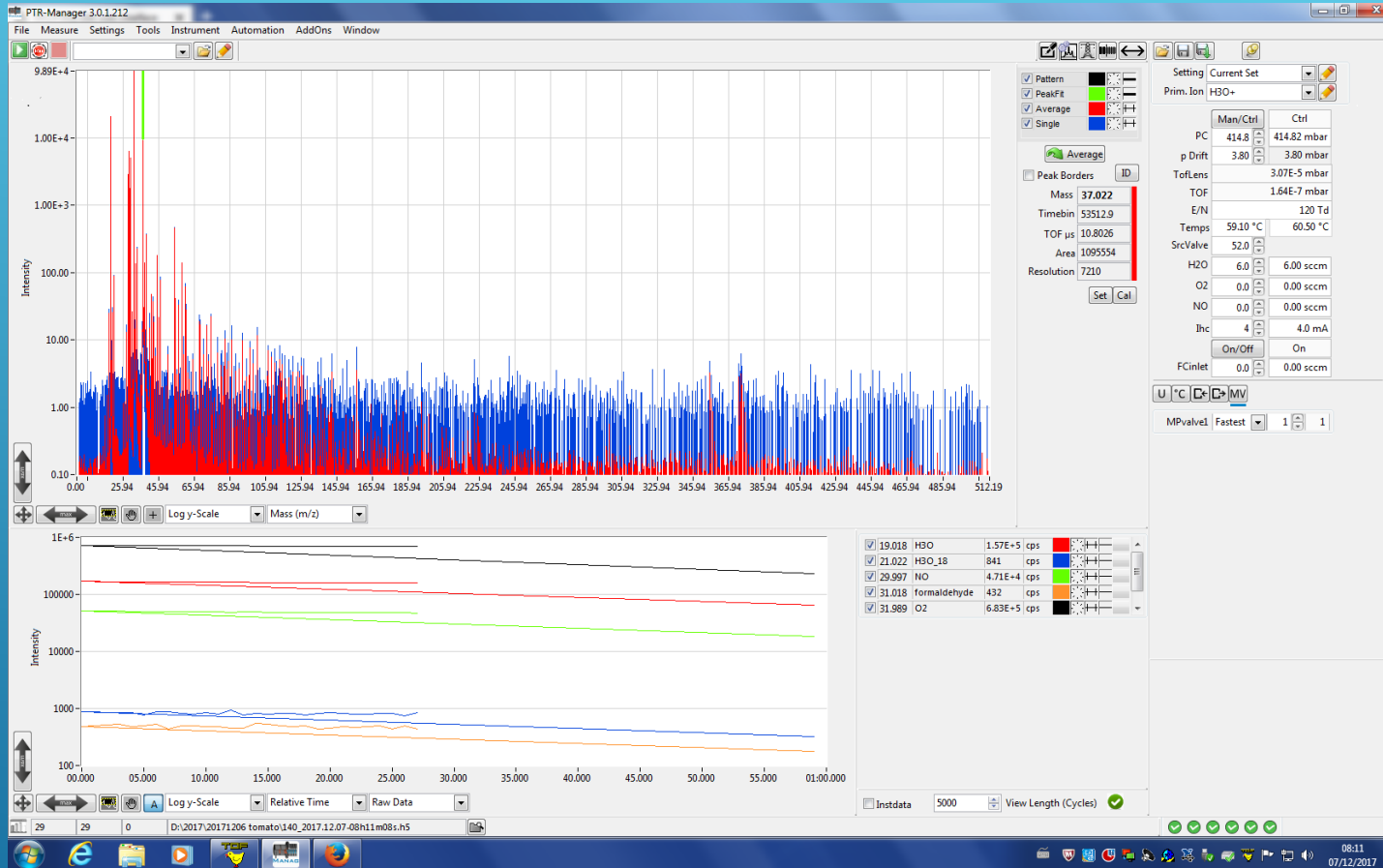
PTR – TIME OF FLIGHT (TOF)



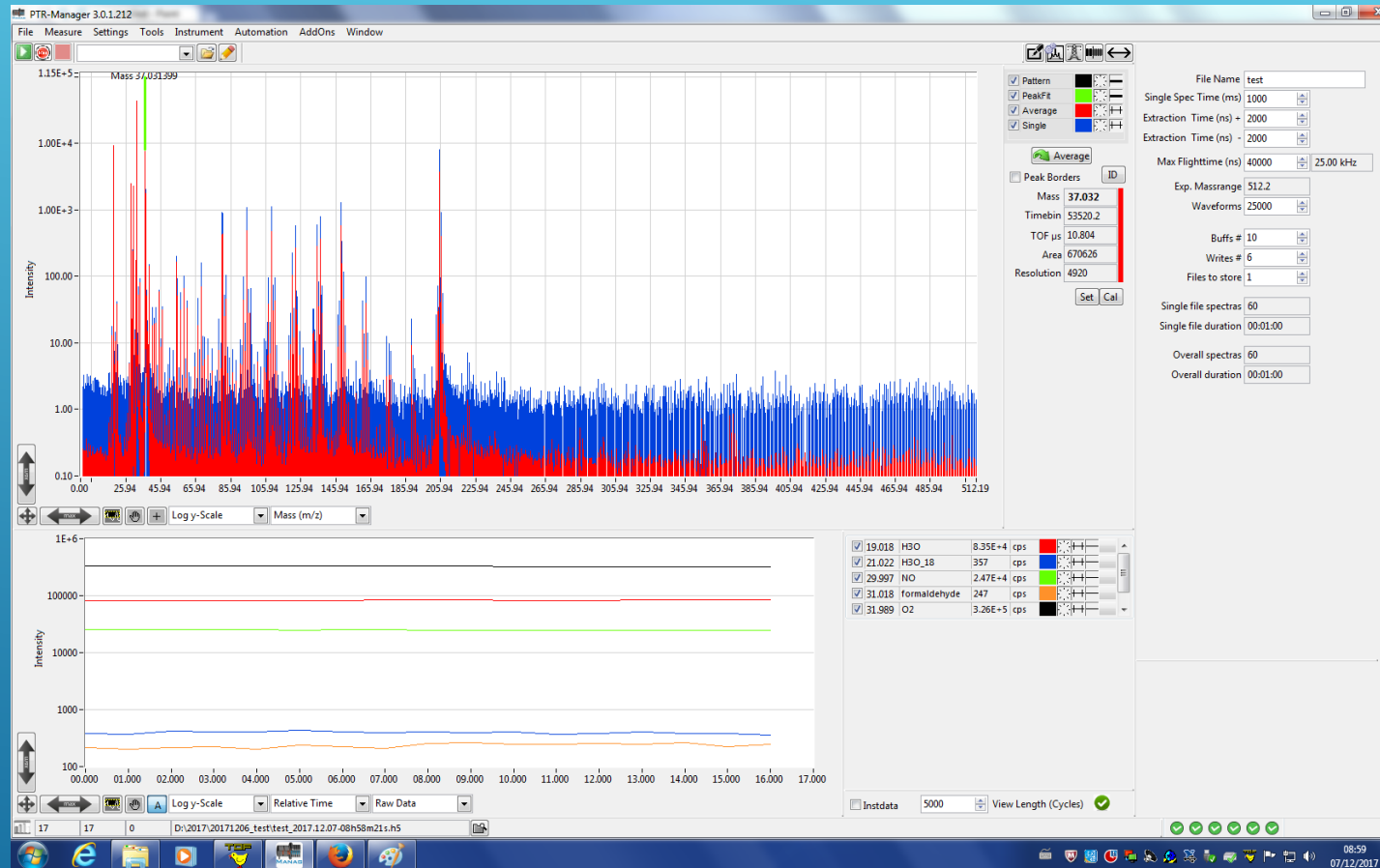
► Full spectrum every split second




Blanc sample



Spice sample



PTR-TOF characteristics.

- ▶ Samples for the PTR-QiTOF do not need any prior preparation
 - ▶ analysis can be performed within seconds
 - ▶ changes can be measured on line (so effects of enzyme activities can be analysed by dynamic profiling)
 - ▶ Compared to PTR-MS the soft ionization and dedicated software better support the actual identification of the measured masses
- 


Booking of the system.

Send a mail to:


ALEX.KOOT@WUR.NL or
ERWIN.BROUWER@WUR.NL

Or even better to both of us. 😊

What do we need from you

- What do you want to measure
 - Project number
 - Date you want to measure
- 
- A decorative graphic consisting of several parallel white lines of varying lengths, slanted upwards from left to right, located in the bottom right corner of the slide.

What kind of support will you get.

- Introduction to the PTR-QI-TOF.
 - Help with setting up the measurement.
 - Support with any issues you encounter.
- 

Additional information.

- Technicians: Alex Koot en Tjerk Venderink
 - There is a lab available for sample handling / storing (when needed)
 - It is not allowed to wear perfume when measuring with the machine.
- 

Booking of the system.

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Or check out the website
[PTR-TOF-MS: on line volatile detection](#)

