

CHEMLYS Application note

Analysis of compounds in % and low ppm with the same method



Context :

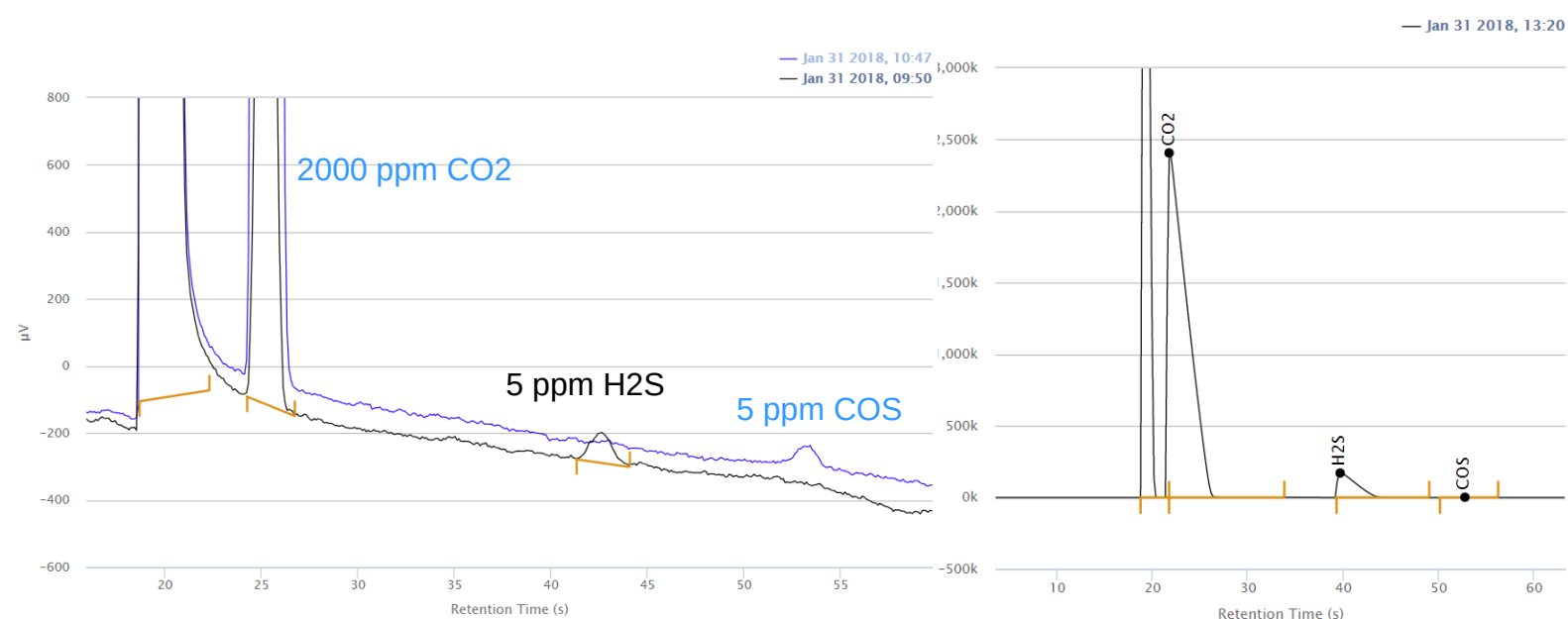
It regularly happens that we need to analyze in the same sample, compounds in high content (several %) and in very low content (some ppm).

MicroGC Fusion's FAST technology (autorange) easily solves this problem in a single method.

In the application below, the sample can contain up to more than 50% CO₂ and 5 ppm H₂S and COS.

The same method is used to quantify the 50% CO₂ without saturation and the 5 ppm H₂S.

The new automatic integration engine works at any grade.



Sample Info :

Chromato 1 : 50% CO₂ – 3% H₂S in Nitrogen matrix

Chromato 2 : 2 000ppm CO₂ – 5ppm COS - 5ppm H₂S in Nitrogen matrix

Column : RT-U 8m, large volume injector

Data acquisition and processing with a unique method.



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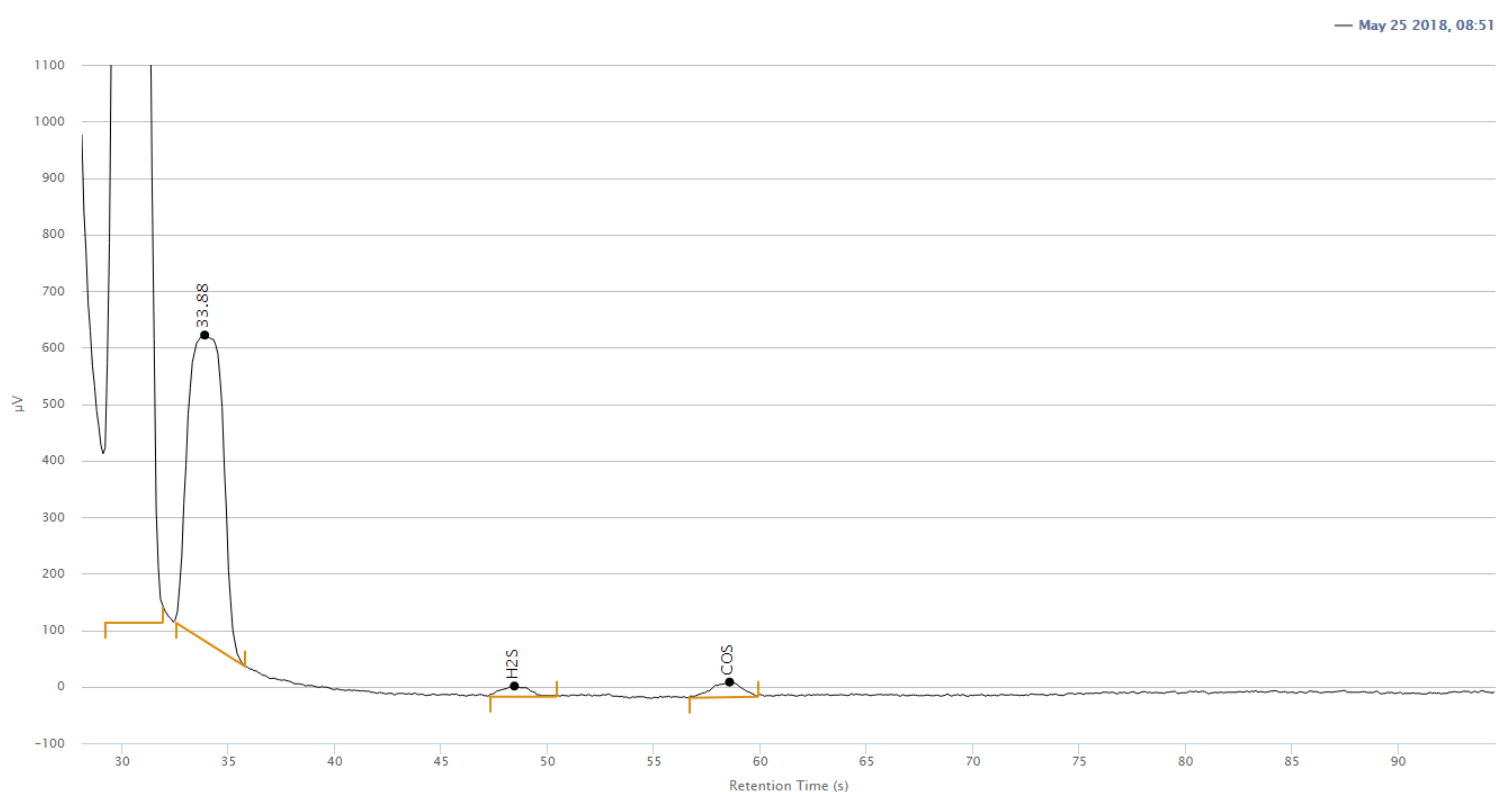
Analysis of compounds in % and low ppm with the same method



With the development of biomethane in France, the Micro GC Fusion has benefited from remarkable technological advances.

The optimization of the μ TCD detector now allows to reach sub-ppm detection limits for many compounds.

In the case of biomethane, it is possible to analyze high levels of CO₂ and C₂ while detecting traces of sulfur.



Sample Info :

Chromato : H₂S, COS 2 ppm in biomethane

Column : RT-U 12m, injecteur large volume

Data acquisition and processing with a unique method.

