

Case History

Even more smart monitoring

Place: International Training Center (ITC) at "G. Ciuffelli" Airport of Rieti

Installation: 2020

Instrument: PyxisGC BTEX

Customer: Heli Protection Europe



INTRODUCTION

Heli Protection Europe (HPE) is among the first companies in Italy to have obtained the title of **Air Operator in non-critical and critical scenarios allowed** to carry out aerial activities with **Remote Piloting Aircraft (UAS)** by ENAC (Italian Civil Aviation Authority) such as:

- Video shooting
- Optical/thermal detection
- Environmental monitoring

REQUEST

Monitoring pollutants released from specific sites, or during accidental events such as fires and gas leaks, is an extremely important service from both the environmental and industrial point of view as it contributes to the **protection of our ecosystem** and, at the same time, provides valid **support to plant operators** in identifying and managing events and dynamics related to the productive process of interest.



SOLUTION

In 2020 **Pollution Analytical Equipment** started the first "flight tests" of PyxisGC BTEX in partnership with Heli Protection Europe .

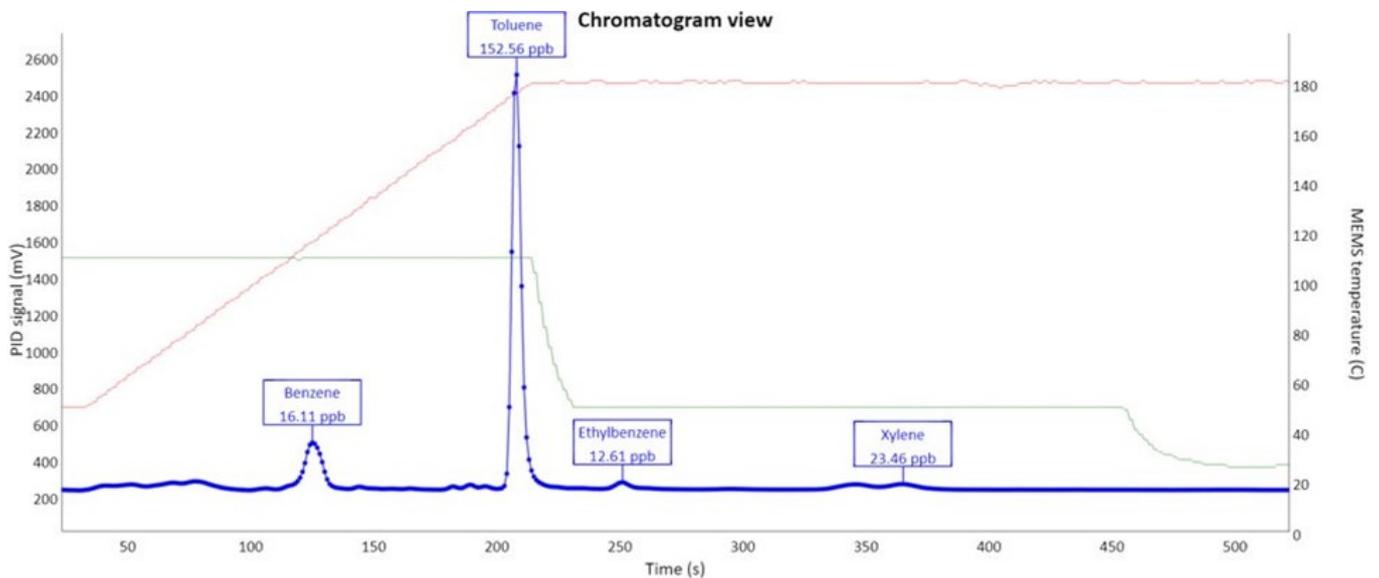
With the support of experienced pilots and of Heli Protection Europe, we carried out the first in-flight analysis with a prototype of the **Pyxisgc BTEX drone** at the International Training Center (ITC) of "G. Ciuffelli" Rieti Airport.



CONCLUSIONS

The flight tests and the intense analytical activity carried out by the Pyxisgc BTEX in different operational settings confirmed the quality of the analysis offered by Pollution Analytical Equipment. The results collected have shown that **the analytical core is not influenced by the new operating structure**, aside from an improvement that needs to be made to the protective case for a more efficient temperature management.

The success of this flight test with Pyxis GC BTEX opens the door to the implementation of **new environmental applications based on remotely piloted drone monitoring**, of particular interest in emergency situations or scenarios that are difficult to access.



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