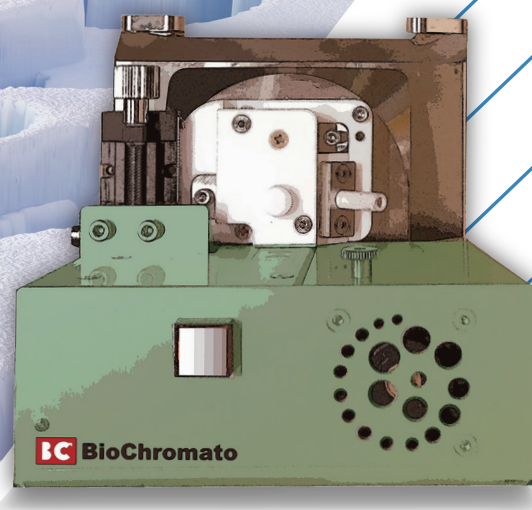


ChemZo: Ion Source for Mass Spectrometry

Featuring Proximity Corona Discharge Ionization

ChemZo



- Simplification of Polymer and Additive Analysis
- Visualizing Aroma
- Direct Analysis of Insoluble Samples
- Rapid Analysis of Foreign Materials
- Localization analysis
- Ensuring Continuity in Analytical Expertise

Material Analysis Made Quick and Simple, AND Capture Changes in Aroma with ChemZo

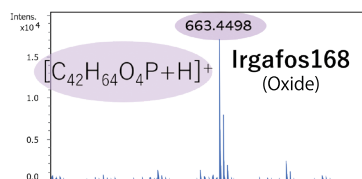
Polymer/Additive Analysis

Real-time measurement of aroma

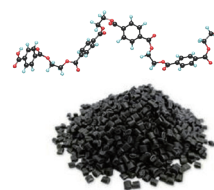
Foreign materials



Polymer additives



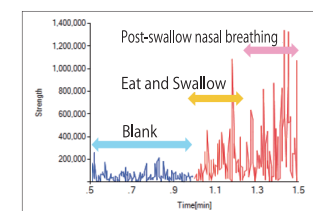
Solid samples



Analysis of aroma components



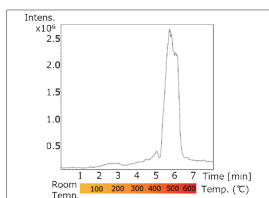
Retronasal Aroma



Thermal Gradient - Corona Discharge Ionization - Mass Spectrometry
System (ionRocket-ChemZo-MS)

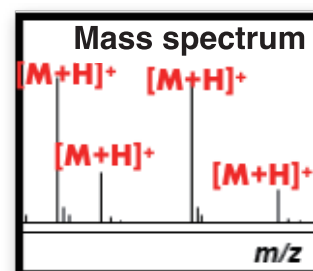
Real-time measurement

Sensory evaluations



Features

- ◆ No pretreatment required.
- ◆ Can measure samples of various shapes.
- ◆ No use of helium.



Minimal fragmentation

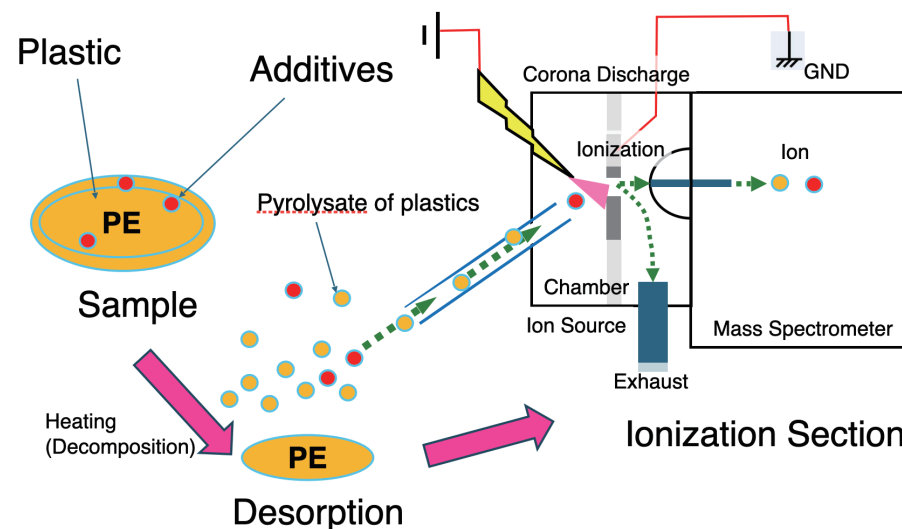
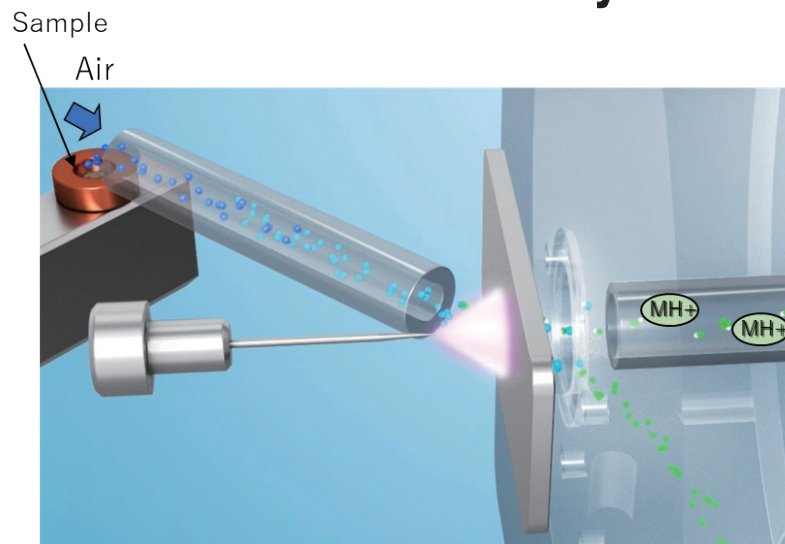


No use of carrier gas

Principle of ChemZo

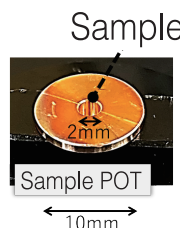
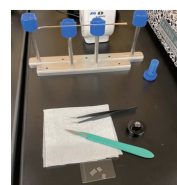
Utilizing Atmospheric Water and Oxygen for Sample Ionization

~ Proximity Corona Discharge Ionization ~

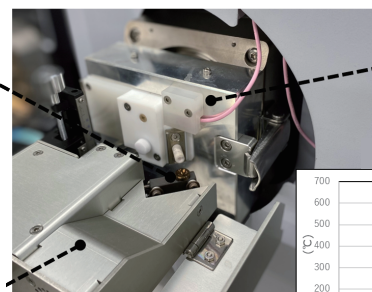


Experimental procedure

Cut sample and place in POT → Set POT on sample stage, Apply heat for desorption of analytes → Ionization with ChemZo → Bruker (Q-TOF-MS)

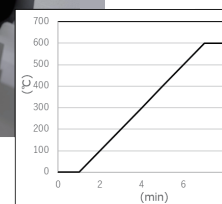


Heating Device



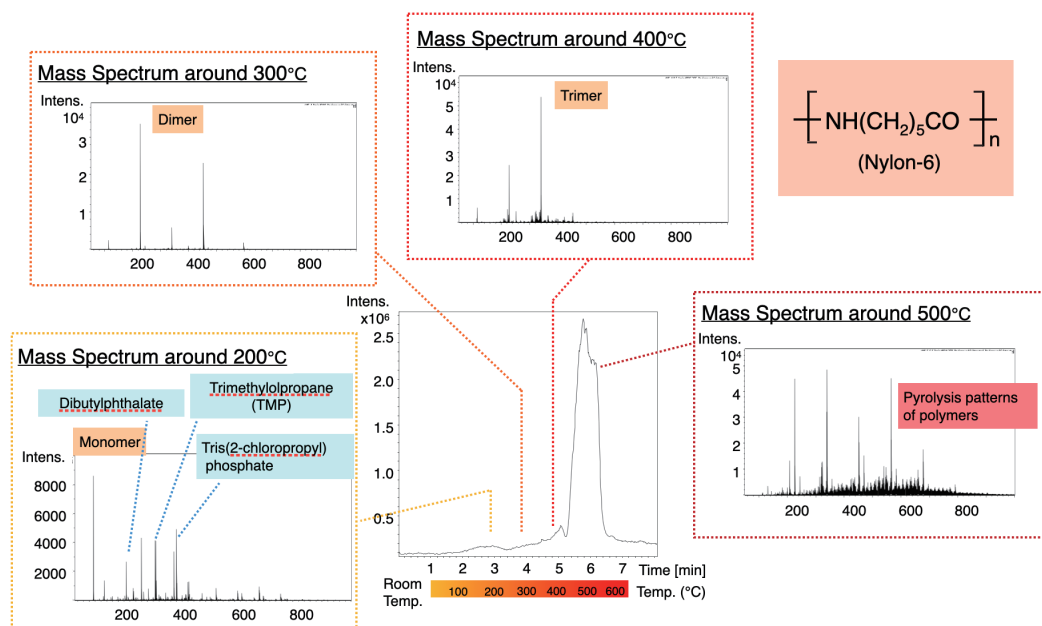
Ion source

Thermal Program

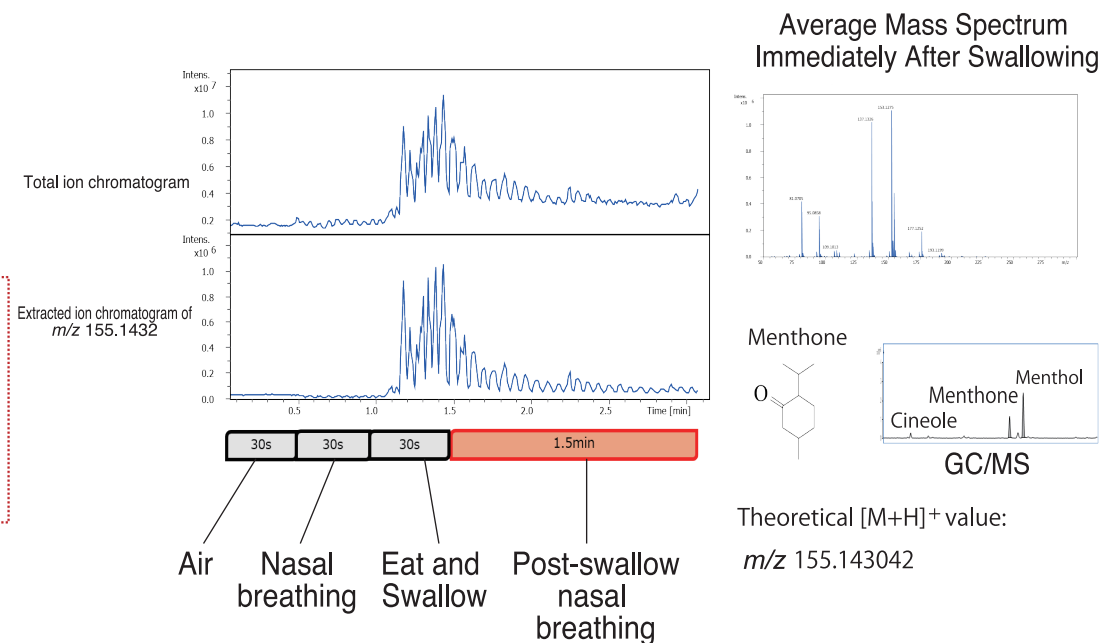


Analysis mode: Positive mode
Desorption: Heating Device

Identification of chemical components in Nylon-6



Retronasal Aroma of Ice Cream



■ Distributor

■ Manufacturer

BC BioChromato

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