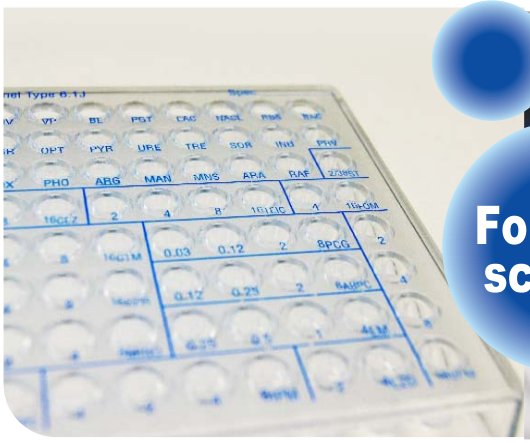
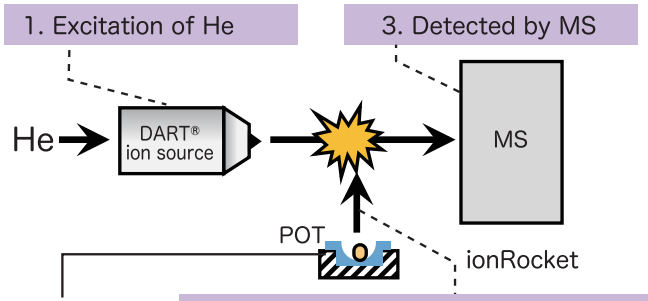
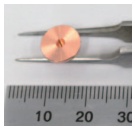
Thermal desorption and pyrolysis device for DART®-MS

IonRocket



ionRocket DART®-MS system



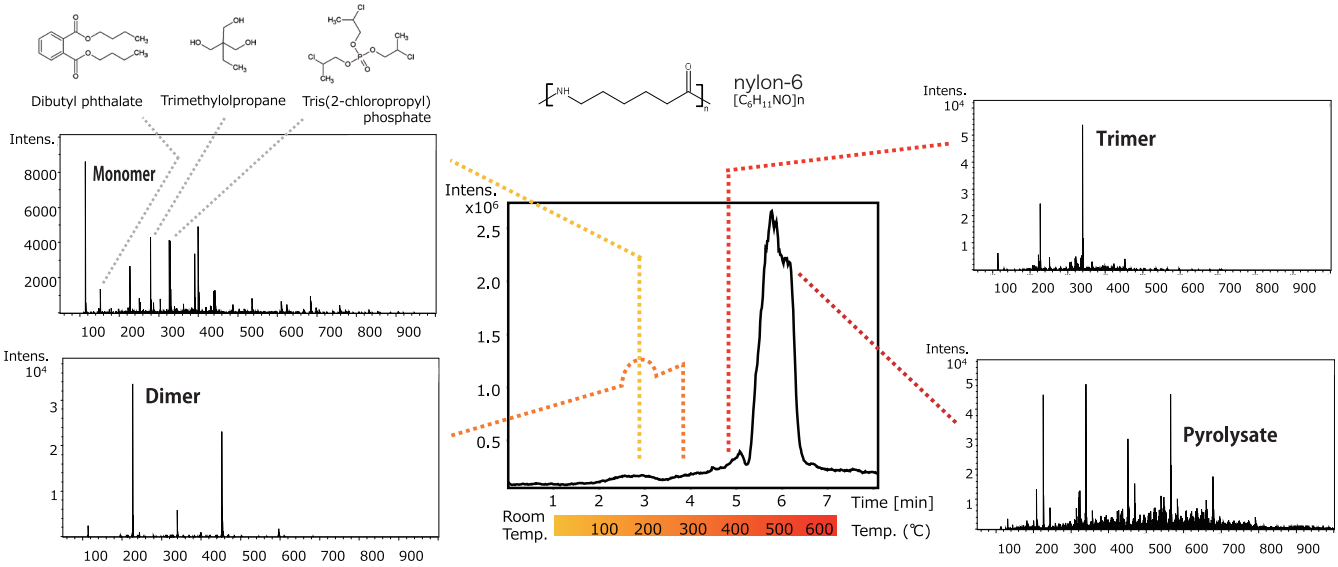


Milligram (mg) samples are sufficient. Many kinds of samples are easily and reproducibly thermally desorbed from the copper sample pot: liquids, solids, powders, and viscous samples.

The merits of ionRocket DART®-MS

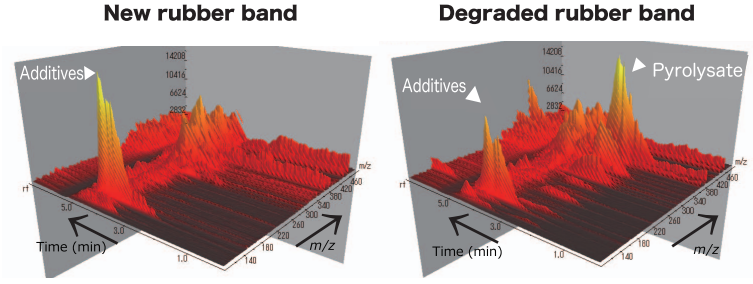
- No derivatization, extraction, or other sample preparation required.
- Thermal extraction and pyrolysis at one assay.
- Thermal gradients enable easy separation and rapid compound identification.

The analysis of nylon-6



Nylon-6, commercial item, were analyzed by ionRocket DART®-MS. Sample was sliced into 0.5 mm x 0.5 mm sections, and then placed in the POT, ionRocket copper sample pot. A temperature gradient of 100 ºC/min. from room temperature to 600 ºC was applied. At the 200 ºC, monomer and additives were measured. Dimer and trimer were detected at 300 ºC and 400 ºC, respectively. Over 500 ºC, the pyrolysate were detected.

Analysis of degraded natural rubber



A rubber band, commercial item, was analyzed by ionRocket DART®-MS. Sample was sliced into 0.5 mm x 0.5 mm sections, and then placed in the POT, ionRocket copper sample pot. A temperature gradient of 100 ºC/min. from room temperature to 600 ºC was applied. The results show clear differences between a new rubber band and one degraded by a heat treatment, with different relative peak heights for additives and degradation products.

Please contact us!

■Distributor

■Manufacturer

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