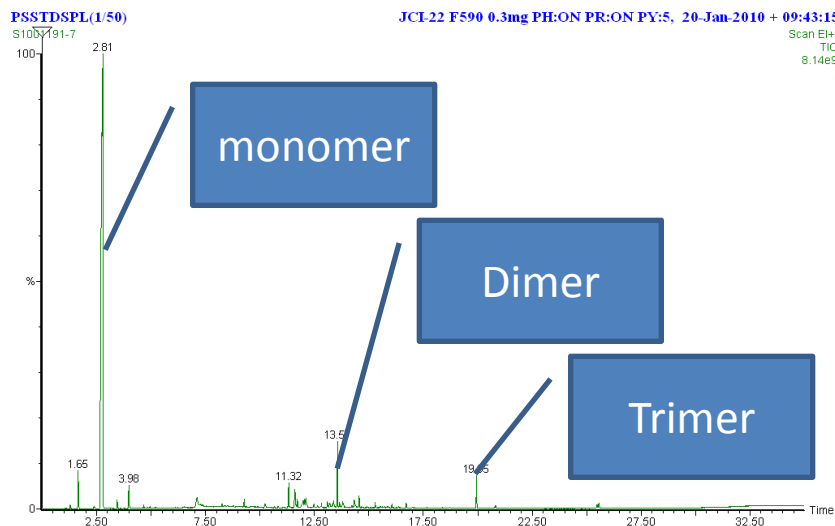


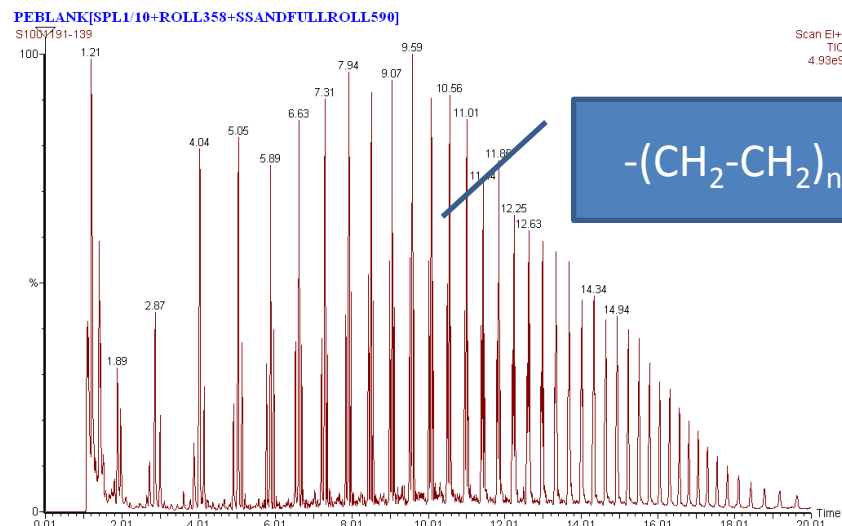
Curie Point Injector JCI-22

Thermal Decomposition of Polymer

- Polystyrene



- Polyethylene

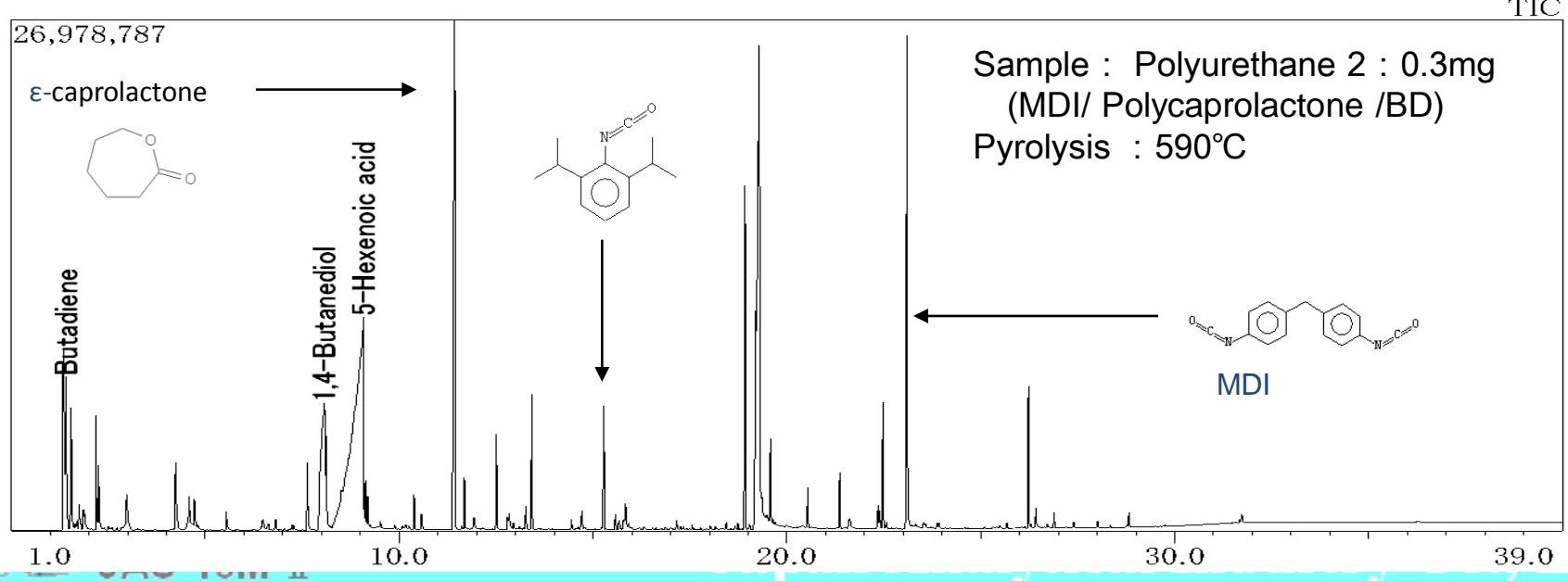
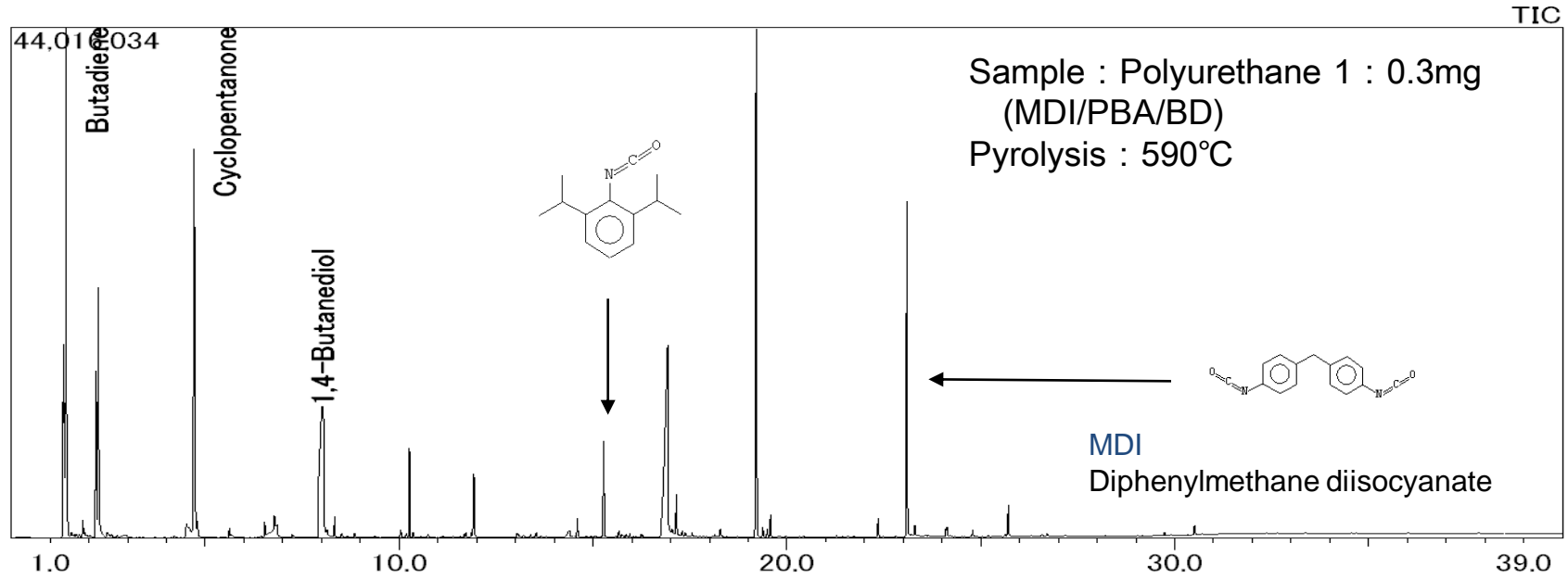


Polymer structural analysis is possible from pyro-gram of decomposed polymer



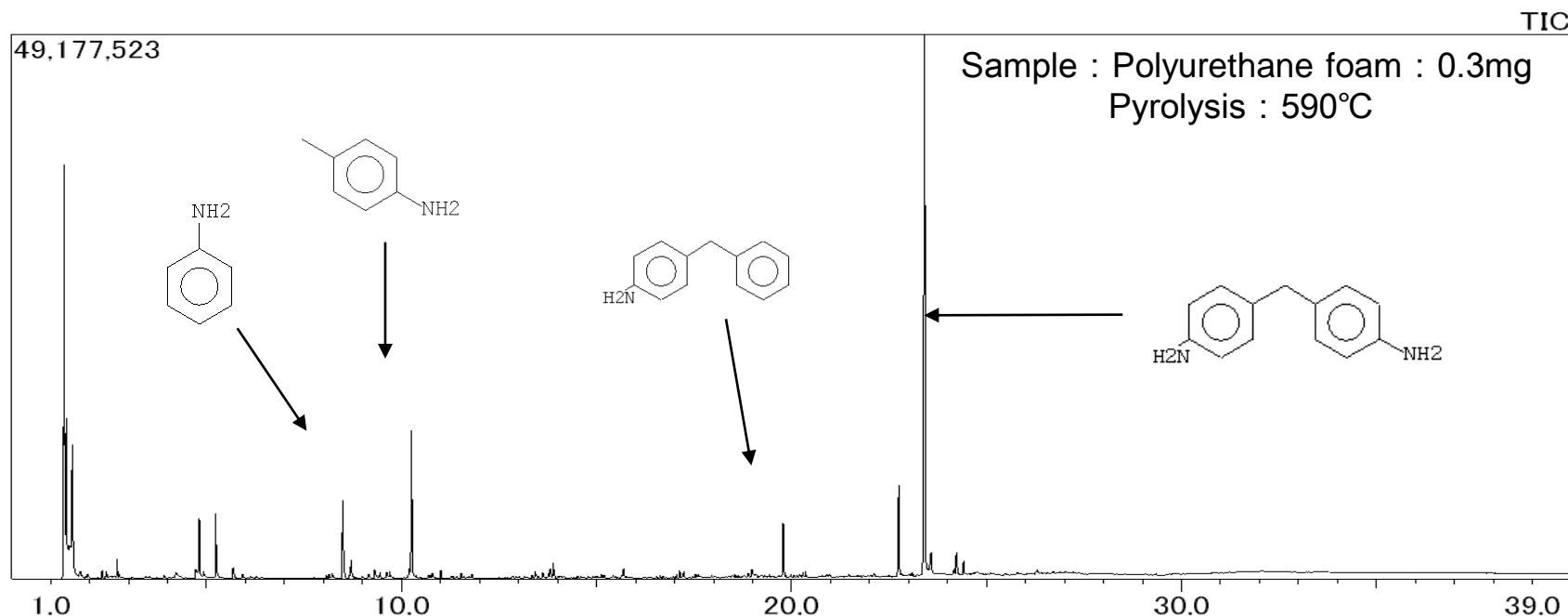
Thermal Decomposition

Polyurethane Pyrolysis



Thermal Decomposition

Polyurethane (Cushioning material) Pyrolysis



JCI-22

Pre-heat: ON (150°C), Purge: ON, PY time: 5 sec

GC-2010

Constant flow mode: Column flow rate: 1.0 ml/min, Head pressure: 44.3 kpa (at 40°C)

Injector temp.: 320°C, Detector temp.: 320°C, Analysis time: 40.0 min,

Oven temp.: 40°C (3 min)-(10°C/min)-320°C (9 min)

Total flow rate: 110.8 ml/min, Split ratio: 1/100, Velocity: 36.1 cm/sec

MS-QP2010

Mass range: 33-500, EM. gain: 1.27 kv, Solvent cut: 0 min, Scan: 0-40 min, Ion source temp.: 250°C

COLUMN

DB-5MS: ID=0.25 mm, L=30 m, T=0.25 um, Serial No.: US6566511H



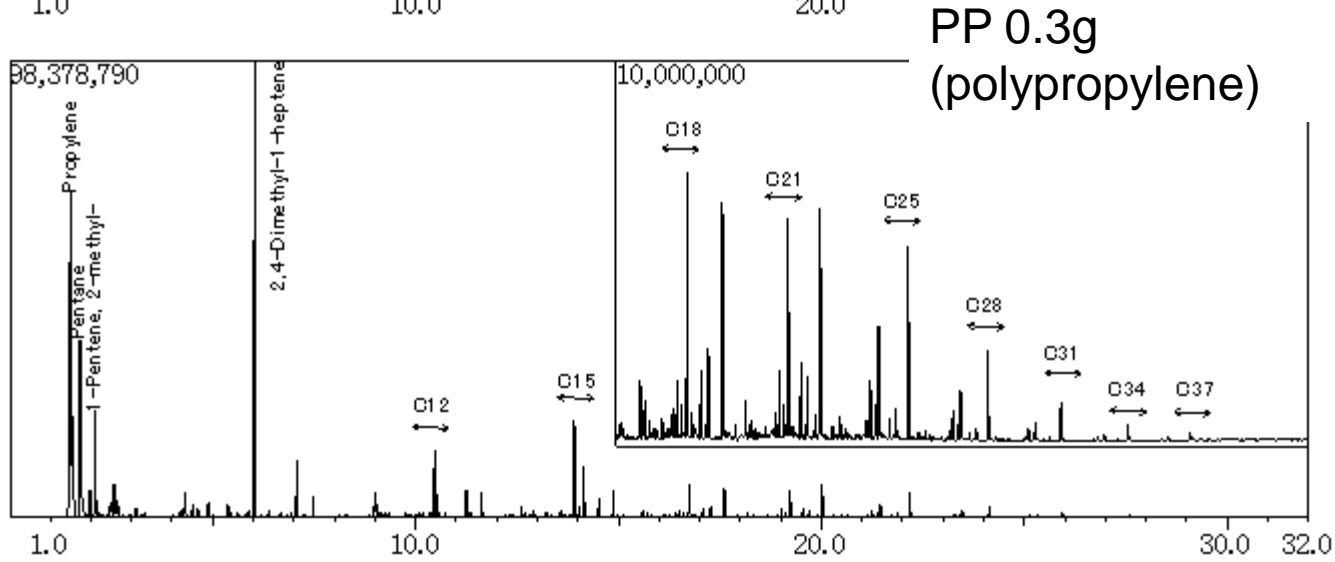
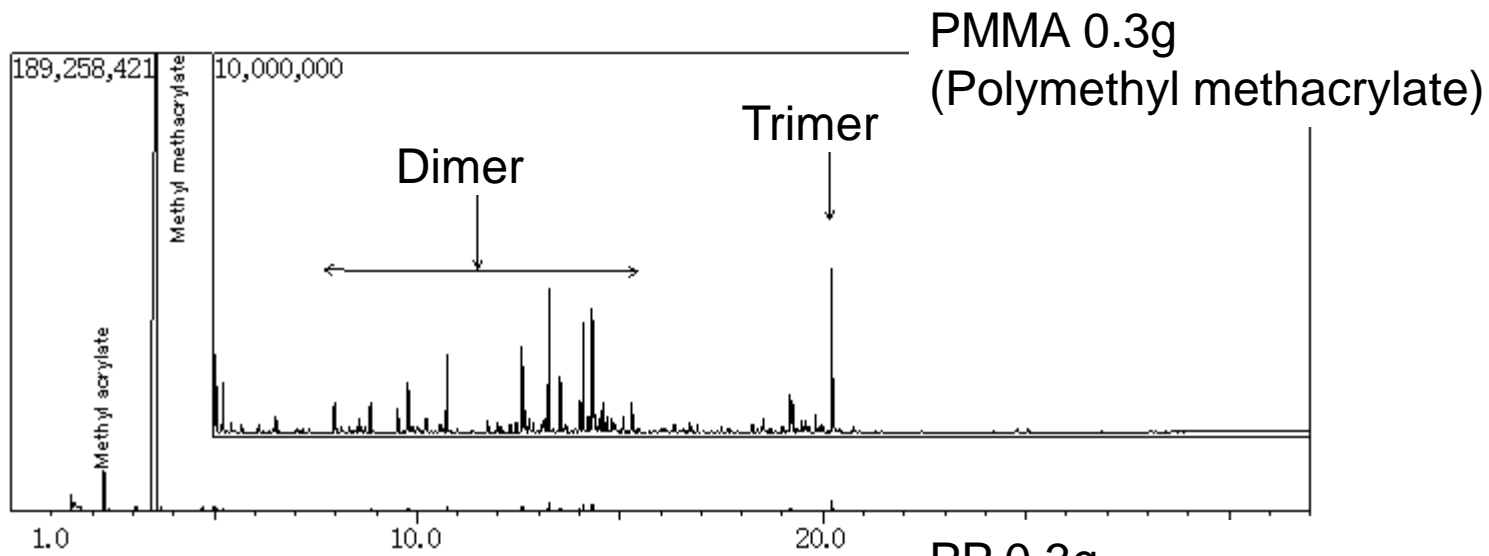
JCI-22

JAS-15M II

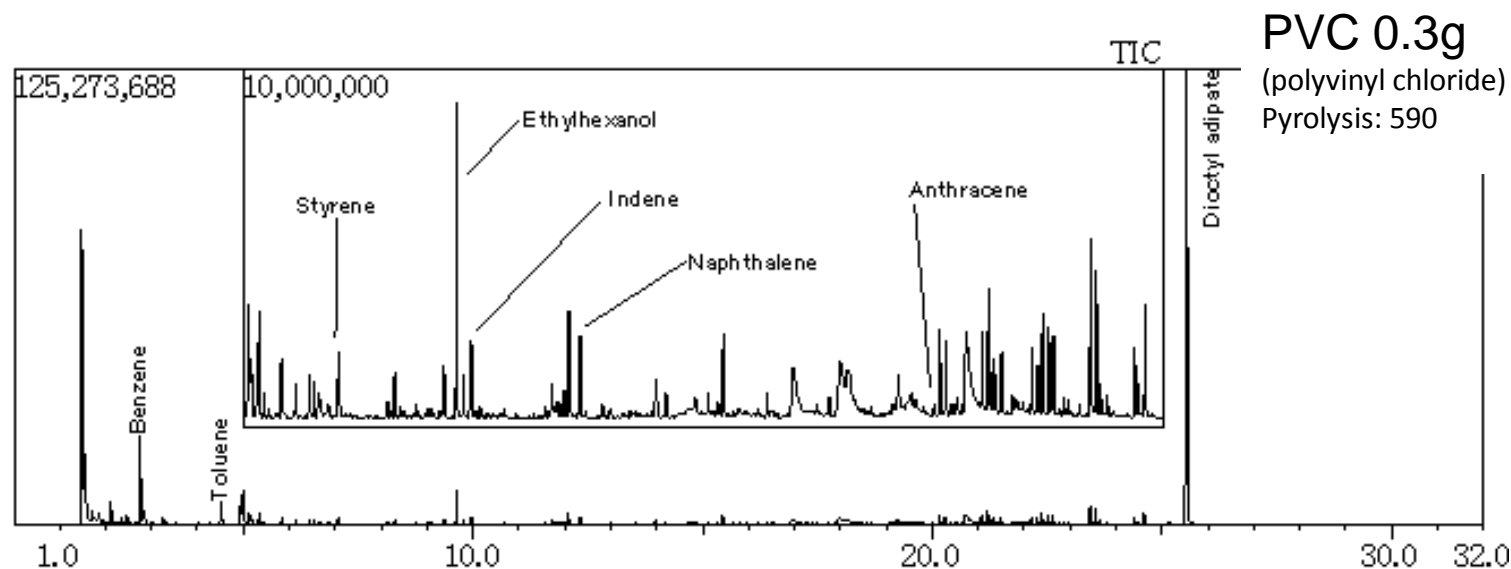
Japan Analytical Industry Co., Ltd

Thermal
Decomposition

Acrylic resin Pyrolysis



Thermal Decomposition



JCI-22: Purge: ON, Pre-heat: ON (150°C)
GC-17A: Inj. Temp.: 280°C, Det. Temp.: 300°C, Split Ratio: 1/100
Col. Flow Rate: 1.0 ml/min, Anal. Time: 32 min
Oven Temp.: 40°C(3 min)~(10°C/min)~300°C(3 min)
QP-5000C: Mass Range: 33~500, EM Gain: 1.40 KV, Scan: 0~32 min
Column: DB-5MS: i.d.0.25 mm × 30 m, t 0.25 μm



JCI-22
JAS-15M II

Japan Analytical Industry Co., Ltd