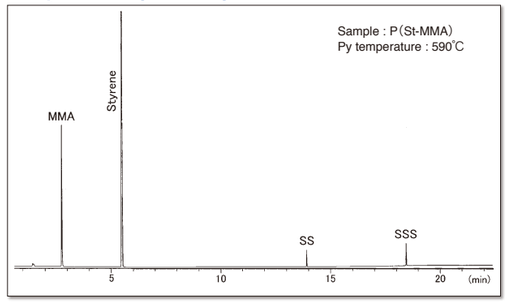
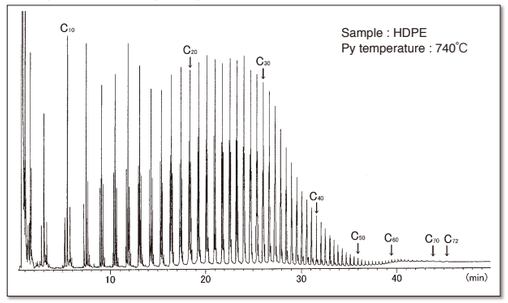
Applications

1. Py-GC of P(St-MMA)



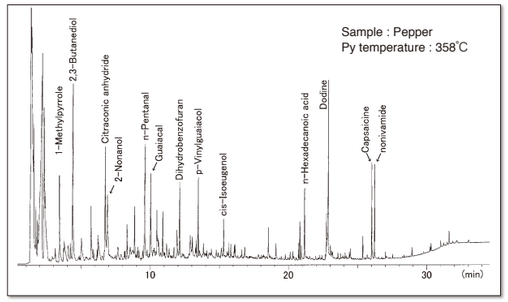
RSD of the monomer peak is guaranteed at most 5%

2. Py-GC of Polyethylene



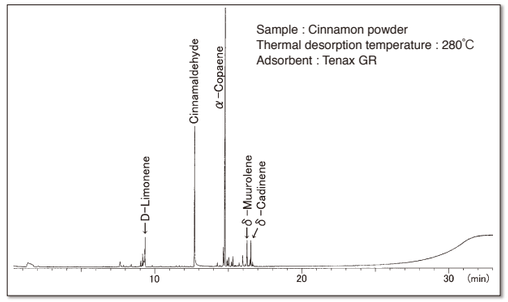
Able to analyze n-paraffin up to C72

3. Py-GC of food



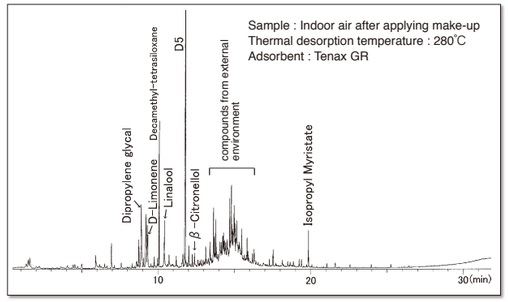
Able to analyze characteristic pungent components from pepper

4. Odor analysis of food



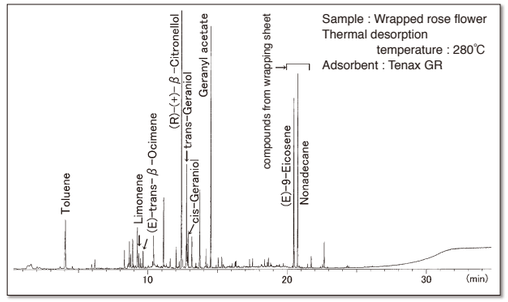
Trapped odor from cinnamon powder heated at 40c for 15 minutes

5. VOC analysis of a room



Collected indoor air using JAS-15MⅡ. Detected compounds from cosmetics, hair colon and antiperspirant spray.

6. Odor analysis of flower



Collected odor from a rose flower using JAS-15MⅡ.

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Columnex carries all JAI products

Curie Point Injector

[Portable Pyrolyzer / VOC Injector]

JCI-55 for GC, GC/MS

Injection into GC/MS

Able to inject samples in the same manner as micro syringe injection.

Japan Analytical Industry Co., Ltd.

Advanced portable pyrolyzer

JCI-55 is a second generation JCI-22, with improved precision for quantitative analysis and ease of use features.

- World first portable injector that is able to inject solid, liquid, or VOC samples into GC/MS in the same manner as a micro syringe injection.

New Features

Quantitative Mode

With improved constant flow mode, it can achieve more precise quantitative analysis of VOC with mini-PAT.

Sample Tube Baking Mode

Able to bake mini-PAT (TenaxGR). The baking procedure is pre programmed and requires a simple one push button.

Solvent Purge Mode

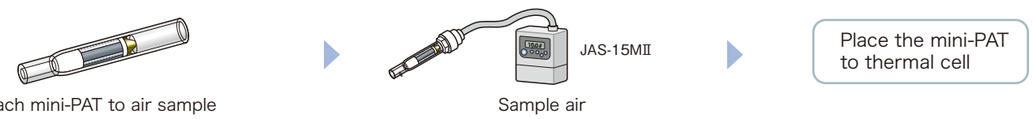
Able to remove water and/or solvent trapped in mini-PAT before analysis of VOC.

Able to perform qualitative analysis similar to JCI-22.

Various Usage

injection of pyrolyzate — synthetic polymer, vulcanized rubber

injection of VOC — VOC trapped with mini-PAT



injection of outgas — vaporized low molecuar weight compounds

injection of derivatives — methylated carboxylic acid, alcohol, carbolic acid

Probe

Indicator — Shows status

Start botton — Starts and completes operation with a single-touch

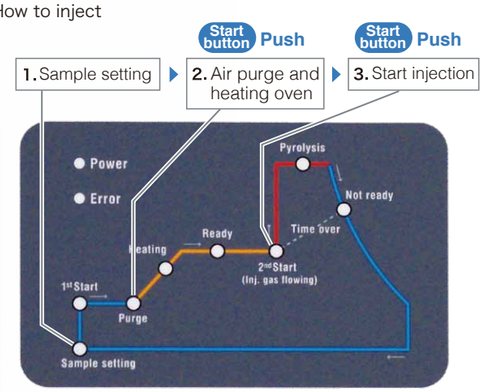
Main body — Compact size
Easy injection into GC

Pyrofoil — Reaches up to the target temperature (selectable 160℃ to 1040℃) within just 0.2 second

Sample tube — Loads wrapped sample with pyrofoil into sample tube

Needle — Inserts into injector port of GC and inject the pyrolyzed sample

How to inject



It is as simple as just press start button twice.

Specification

Probe	
Heating System	Curie point heating
Pyrolysis	Pyrofoil (160℃～1040℃)
Oven Heating	150℃
Transfer line (Needle upper part)	300℃ (at the time of curie point heating)
Sample Tube	Quartz glass, OD 6mm, Length 36mm
Needle	Exclusive needle (OD 0.47mm, Length 42mm)
Connection Cable	2m
Dimensions	OD 35mm, Length 180mm
Weight	110g
Power	Supplied from controller

Controller	
RF Power	48W, 600kHz
Pyrolysis time	5sec, 10sec, 15sec.
Output Signal	GC/start signal
Mode selection	Qualitative analysis Mode, Quantitative analysis Mode, Solvent purge Mode、Baking Mode
Injection Gas (He)	5liter Helium carlrige or Supplying 0.5MPa Helium
Dimension of Mainframe (mm)	150(W)×246(H)×367(D)
Weight	7Kg
Power	AC85～240V, 500VA(Max)

Standard accessories

Sample Tube	5ea	Needle for JCI-55	5ea
Pyrofoil Set	1p/k	Sample Tube Guide	2ea

Controller

Foil Crimper	1ea	Syringe for Needle Cleaning	1ea
Titanium Tweezers	1ea	Sample Tube Stand	1ea
Flat Nose Pliers	1ea	Pyrofoil	1p/k

Optinal accessories

mini-PAT, with Tenax

Air Sampler, JAS-15MⅡ, with mini-PAT Fitting

pyrofoil

21 kinds of pyrofoil between the temperature of 160℃ to 1040℃ are avaliable.

pyrofoil Temperature		
1040℃	500℃	315℃
920℃	485℃	280℃
764℃	445℃	255℃
740℃	423℃	235℃
670℃	386℃	220℃
650℃	358℃	170℃
590℃	333℃	160℃