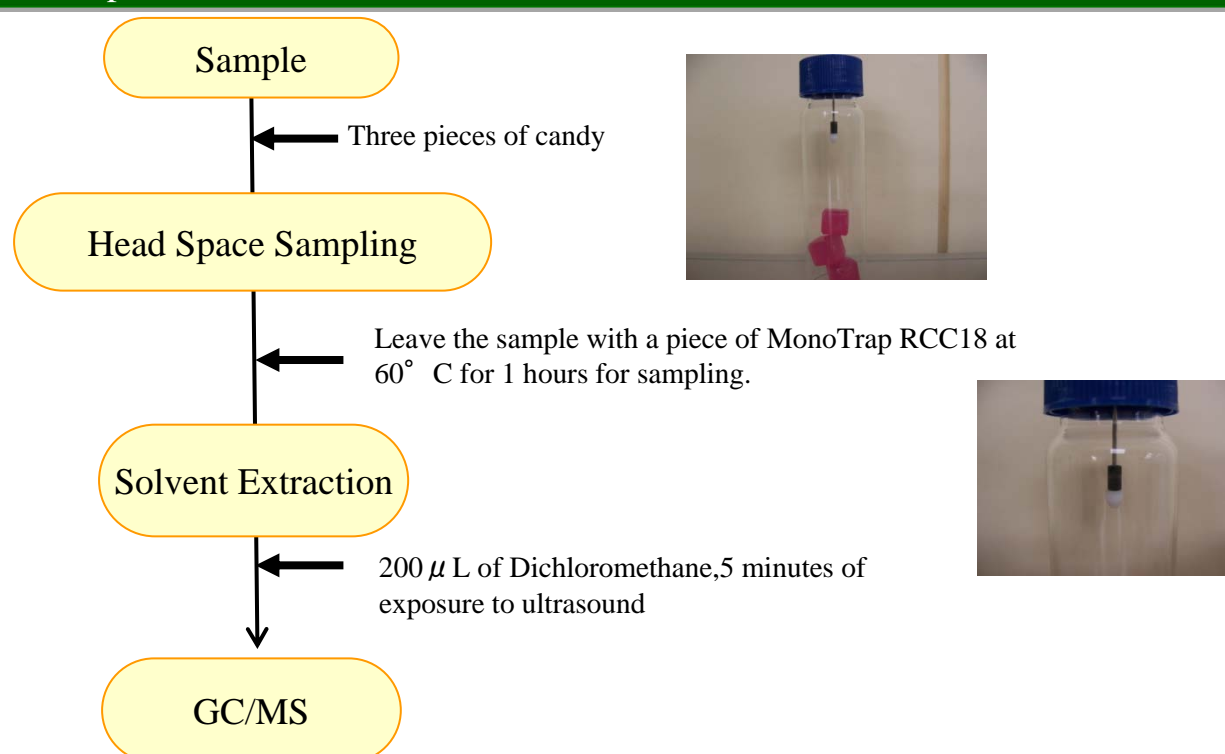


## Simple analysis of the aroma components of candy after concentration

MonoTrap™ is a silica-based adsorptive. This product can be characterized by through pour (due to the monolith structure of the silica base) and a large surface (due to the pores within the silica frame). Active carbon is used as an adsorptive on the silica frame surface to which octadecyl (ODS) group has been conjugated. MonoTrap™ can be viewed as a new hybrid adsorptive having a large surface area and possessing the features of silica gel, active carbon and ODS group.

In the current experiment, MonoTrap™ RCC18 (containing activated carbon) was used for the simple analysis of the aroma components of candy after concentration using the HS method. The samples were extracted in an insert vial for an automatic sampler available on the market and subjected to continuous analysis. It is not necessary to replace the dedicated MT Extract Cup or solvent, which makes it easy to conduct screening.

## Pretreatment procedures

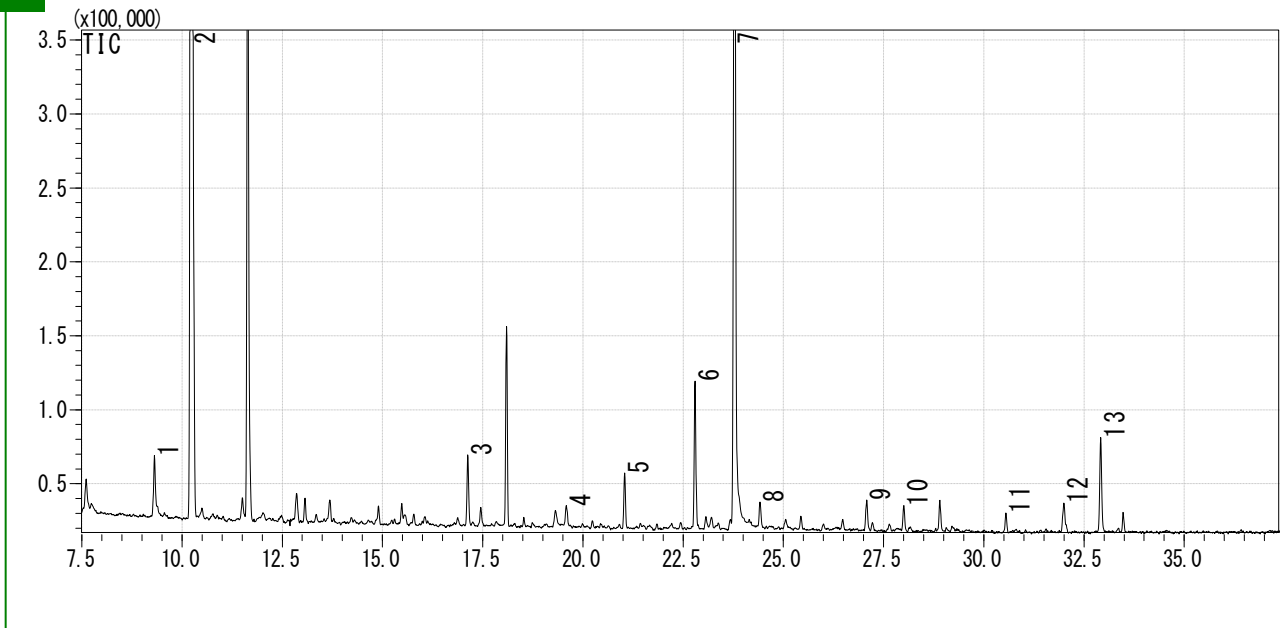


RCC18 and RSC18 can be subjected to extraction in the existing insert vial for the automatic sampler, not in the dedicated MT Extract Cup. When using an automatic sampler whose needle insert position against the vial is adjustable, the samples can be continuously analyzed using easy procedures from trapping to measurement. To prevent MonoTrap™ from interfering with the syringe, the syringe insert position should be set at a position that is at least 6 mm away from the lowest position.

## MonoTrap™ Start-UP-KIT for easy concentration and extraction!

	Name	amount
①	MT Holder	5
②	MT Stand	1
③	MT Extract Cup with Vial(20ml)	5
④	Clean Pin Hole Septum with vial(40ml)	5
⑤	200 µ L Glass insert (Flat bottom)	40
⑥	MonoTrap™ DCC18	20
⑦	MonoTrap™ RCC18	20
⑧	MonoTrap™ DSC18	20
⑨	MonoTrap™ RSC18	20





- |   |                    |    |                       |
|---|--------------------|----|-----------------------|
| 1 | <i>β</i> -Myrcene  | 8  | Ethyl laevulinate     |
| 2 | Limonene           | 9  | <i>α</i> -Terpineol   |
| 3 | cis-3-Hexenol      | 10 | Citral                |
| 4 | Furfural           | 11 | <i>β</i> -Damascenone |
| 5 | Decanal            | 12 | Benzyl Alcohol        |
| 6 | <i>β</i> -Linalool | 13 | Phenylethyl Alcohol   |
| 7 | Propylene Glycol   |    |                       |

※Identified with spectral libraries

Red characters •••Identified with standard sample

### GC/MS analysis

**System** : SHIMADZU GC-2010、GCMS-QP2010

**Column** : InertCap Pure-WAX(Cat.1010-68142)**New!!**  
0.25mmI.D. × 30m df=0.25 μ m

**Column Temp** : 40°C(5min)→6°C/min→250°C(5min)

**Carrier Gas** : He 70kPa

**Injection** : Split /Splitless, 1μL  
250°C

**Detection** : MS Scan (m/z;55-400)



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