

Enrichment analysis of orange flavor component - Using MonoTrap Simple Enrichment Tools

MonoTrap RGC18TD, a simple enrichment tool was used to screen and analyze peeled orange flavor components. MonoTrap RGC18TD is a dedicated heat-desorption cartridge, it is individually packaged in ampoules and does not require conditioning before use.

Pretreatment procedure

Orange

Place an edible portion
In a 40 mL vial

Collection (HS)
One MonoTrap RGC18TD

At room temperature
for 4 h

TD/GC/MS

GC Conditions

System

: GC - MS - Thermal Desorption

Column

: InertCap Pure-WAX
0.25 mm I.D. x 30 m, df = 0.25 μ m

Col.Temp.

: 40 °C(5 min) - 4 °C/min - 250 °C

Carrier Gas

: He, 1 mL/min (constant flow)

Desorb Temp.

: 200 °C

Time

: 5 min

Mode

: Split (Split ratio 5:1)

Cryo Trapping

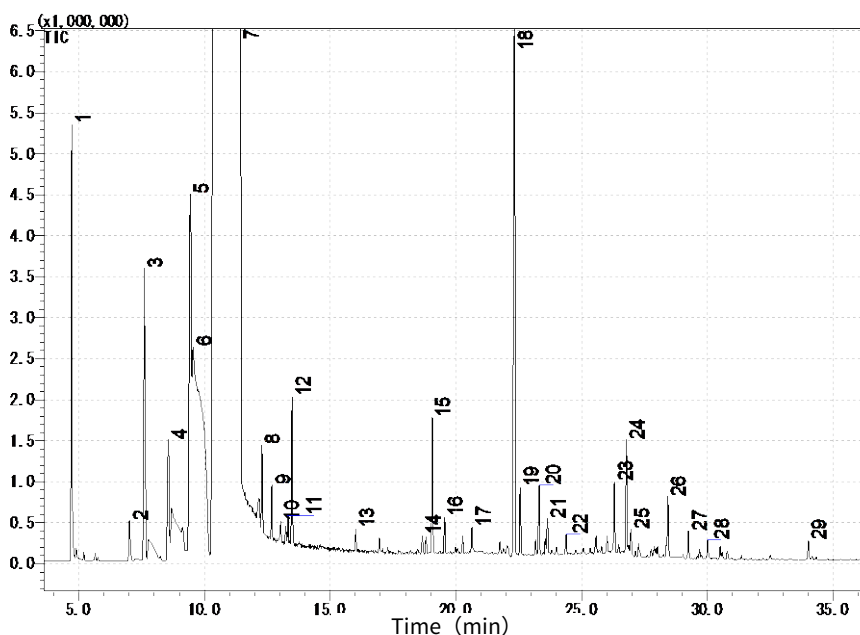
: -150 °C

Injection Temp.

: 200 °C

Detection

: MS Scan (m/z : 45-600)



- | | |
|--------------------|--|
| 1. Pinene | 16. Terpineol |
| 2. Pinene | 17. Decanal |
| 3. Sabinen | 18. Linalool |
| 4. Carene | 19. 1-Octanol |
| 5. Myrcene | 20. Caryophyllene |
| 6. Myrcene | 21. Bicyclo[3.3.0]octan-3-one, 7-ethylidene- |
| 7. Limonene | 22. Mentha-2,8-dienol |
| 8. Terpinene | 23. Terpineol |
| 9. Ocimene | 24. Valencen |
| 10. Cymene | 25. Carvone |
| 11. Carene | 26. Citronellol |
| 12. Terpinolen | 27. Geraniol |
| 13. 1-Hexanol | 28. Carveol |
| 14. Limonene oxide | 29. 2-(4-Methylenecyclohexyl)-2-propen-1-ol |
| 15. Limonene oxide | |

* According to library search results

Products

Absorbent

Description : MonoTrap RGC18TD

Cat.No. : 1050-74201

* Shipped in ample tube.



MonoTrap RGC18TD



Contents	Cat.No.
● MonoTrap TD 10 pcs (Select one from 3 types as below) MonoTrap RSC18 TD, RGC18 TD, RGPS TD ● Glass Tube 1 pc (Select a tube for OPTIC / LINE, or for T-Dex / ATD / TD-20) ● MT Holder 1 pc ● CLEAN PIN HOLE SEPTUM WITH VIAL 1 pc	1050-07800

GC capillary column

Product name : InertCap Pure-WAX

Size : 0.25 mm I.D. x 30 m, df = 0.25 μ m

Cat.No. : 1010-68142



InertCap Pure-WAX

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