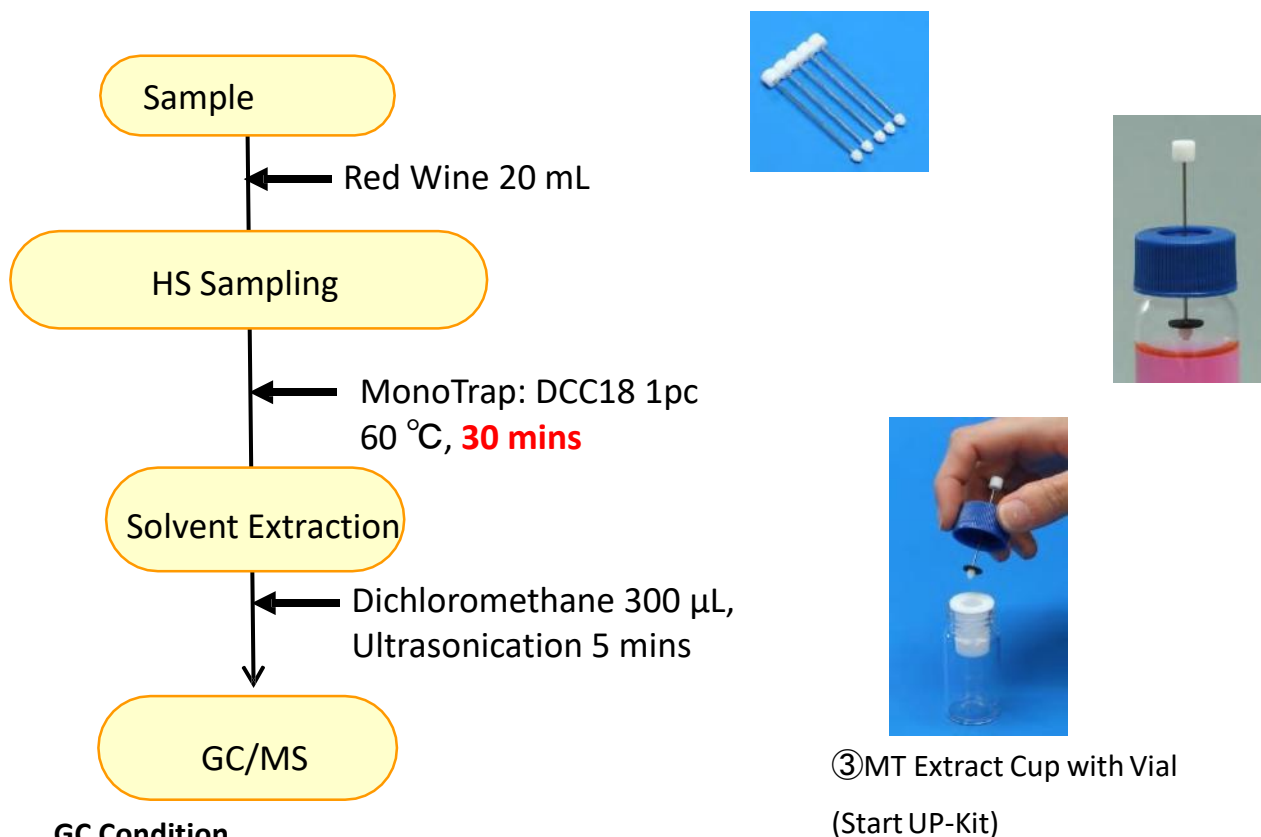


Easy Concentration of Red Wine Fragrance by HS with MonoTrap

MonoTrap is a hybrid novel adsorbent that combines a large surface area and the properties of silica gel, activated carbon, and ODS. Due to the large surface area of porous silica and the adsorption effect caused by the inclusion of activated carbon, a high collection efficiency is obtained. Therefore, high-sensitivity analysis can be performed in a short time. In this study, we used MonoTrap DCC18 (with activated carbon) to perform simple enrichment analyses of the fragrance components of domestic red wines by the HS-method. By warming to 60 °C, we were able to obtain much information by collecting it for as short as 30 minutes, while it was HS analysis. The highly inert WAX-column InertCap Pure-WAX is the optimal column for fragrance components analyses. It is recommended to use this medicine in conjunction with MonoTrap.

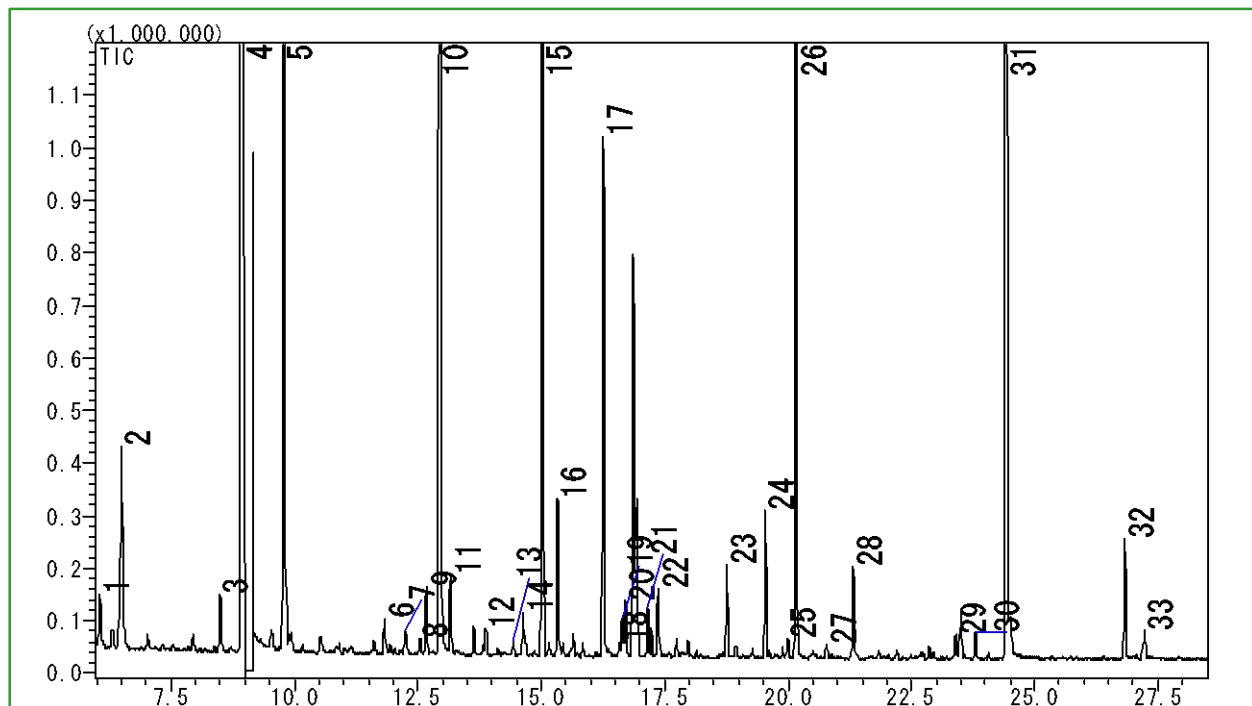
Protocol



GC Condition

- System** : SHIMADZU GC-2010、GCMS-QP2010
- Column** : **InertCap Pure-WAX** (Cat.No. 1010-68142)
0.25 mm I.D. × 30 m df=0.25 µm
- Column Temp** : 40 °C (5 min) → 6 °C/min → 250 °C (5min)
- Carrier Gas** : He 95 kPa
- Injection** : Split /Splitless, 1 µL
250 °C
- Detection** : MS Scan (*m/z*:55-400)

Ultra inert WAX column **InertCap Pure-WAX** is highly recommended to analyze aromatic compounds together with **MonoTrap**



1	2,2,6-Trimethyl-6-vinyltetrahydropyran	18	Benzaldehyde
2	Isoamyl acetate	19	3-Ethyl-4-methylpentanol
3	Limonene	20	2-Bornene
4	1-Pentanol	21	n-Propyl propionate
5	Ethyl hexanoate	22	Ethyl di-2-hydroxycaproate
6	Maleic anhydride	23	β -Cyclocitral
7	3-Methylpentanol	24	Ethyl decanoate
8	1,1-Dimethoxy-2-propanol	25	α -D-Galactopyranose methyl glycoside
9	Ethyl 2-hexenoate	26	Diethyl succinate
10	1-Hexanol	27	3-(Methylthio)-1-propanol
11	cis-3-Hexen-1-ol	28	1,5,8-Trimethyl-1,2-dihydronaphthalene
12	Nonanal	29	Hexanoic acid
13	cis-2-Hexen-1-ol	30	Benzyl Alcohol
14	Ethyl 2-hydroxy-3-methylbutanoate	31	Phenylethyl Alcohol
15	Ethyl octanoate	32	Diethyl dl-malate
16	Furfural	33	Octanoic Acid
17	2-Ethyl-1-hexanol		

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