

**NEW**

Abnormal Peak Solution Kit

In capillary GC analysis, abnormal shapes are often observed at the rise of peaks in mid/high boiling point regions with carbon atom numbers of 15 to 40.

This phenomenon also occurs with liquid injection using a conventional microsyringe and has remained an inexplicable issue for more than 40 years since the invention of the capillary column.

This phenomenon can be eliminated by using the 'Abnormal Peak Solution Kit' (ASK), which consists of a GC inlet insert packed with inert α -alumina particles and a Smart Pre-column (SMC) connected ahead of the separation column.

Compared to using the SMC alone, combining it with the packed insert significantly improves the accuracy of quantitative analysis and greatly reduces contamination of the separation column.

Features

1. Elimination of abnormal peaks
2. Improved reproducibility and quantitative analysis accuracy
3. Extending the life of separation columns

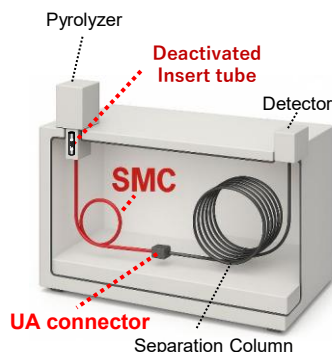
(Active gases such as HCl and high-boiling compounds of C40 or higher are trapped)

Specifications

- Components : Packed GC Glass Insert, Smart Pre-Column (Length 2 m, i.d. 0.25 mm, o.d. 0.47 mm), UA Connector
- Max use temperature : 400 °C
- Compatible column : o.d. 0.47mm metal capillary column

Product name	Product number	Contents	Qty.
Abnormal Peak Solution Kit	For Agilent GC PY1-K106A	Packed GC Glass Insert	1 ea.
		Smart Pre-Column (Ferrule* on one end)	2 ea.
	For Shimadzu GC PY1-K107S	UA Connector	1 ea.
		Wrench(6/8 mm)	2 ea.

* VF metal ferrule D (MS402167), for metal capillaries (i.d. 0.25 mm)

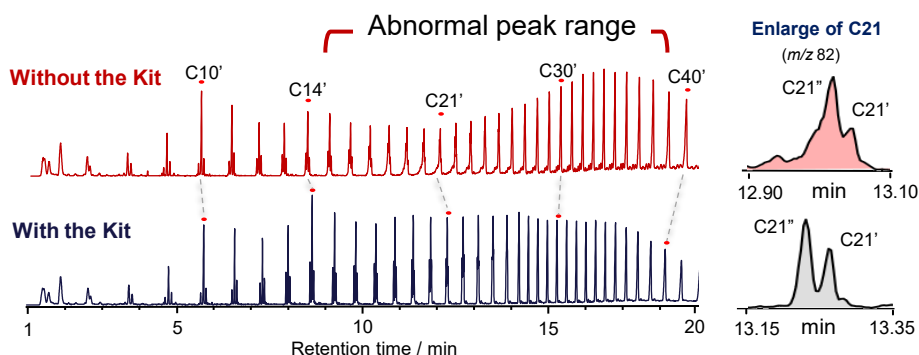


- [Connection method]**
1. Install the packed GC glass insert into the GC inlet port.
 2. Connect one end of the SMC to the GC inlet and the other end to the UA connector.
 3. Connect the separation column currently in use to the UA connector using the included ferrule.

It can be installed easily!

Application Examples

Polyethylene Pyrogram (TICC): Pyrolysis temperature 600 °C, Sample amount 0.3 mg, Split ratio: 1/50



Reproducibility of C21" peak area without and with the kit*

The Kit	RSD (%)
Without	7.57
With	0.68

* Reproducibility of peak area using extracted ion chromatogram (m/z 82) (n=4)

