



restek **innovation!**

Excellent for dioxins or furans.

## Dioxin & Furan Congeners Analysis

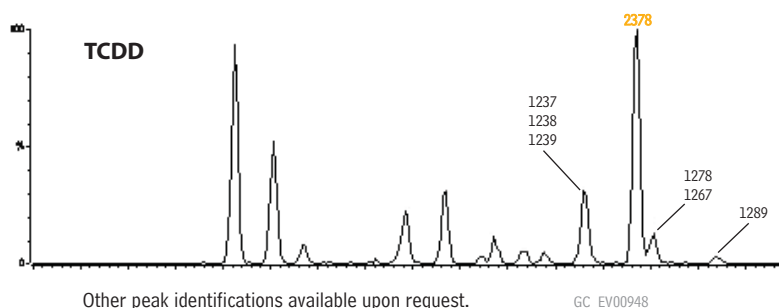
### Rtx®-Dioxin2 Columns (fused silica)

(proprietary Crossbond® phase)

- Isomer specificity for 2,3,7,8-TCDD and 2,3,7,8-TCDF achieved with one GC column.
- Thermally stable to 340 °C for longer lifetime.
- Unique selectivity for toxic dioxin and furan congeners allow use as a confirmation GC column.

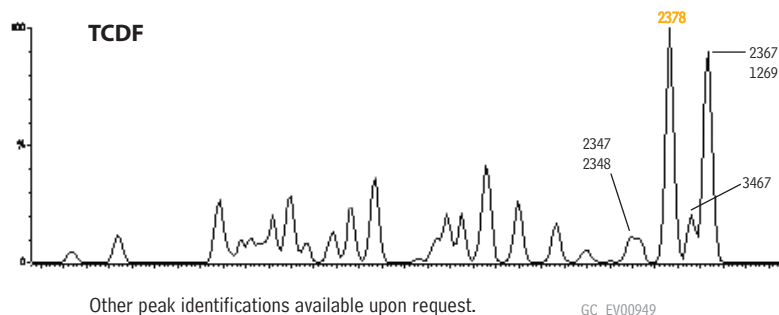
ID	df	temp. limits	40-Meter	60-Meter
0.18mm	0.18µm	20°C to 340°C	10759	
0.25mm	0.25µm	20°C to 340°C		10758

### 2,3,7,8-Tetrachlorodibenzodioxin resolved from other TCDD congeners, using an Rtx®-Dioxin2 column.



Column: Rtx®-Dioxin2, 60m, 0.25mm ID, 0.25µm (cat.# 10758)  
 Sample: WMS-01 Reference Material, Wellington Laboratories  
 Inj.: Splitless  
 Inj. temp.: 250°C  
 Carrier gas: helium, constant flow  
 Flow rate: 1.5mL/min.  
 Oven temp.: 130°C (hold 1.0 min.) to 200°C @ 40°C/min. to 235°C @ 3.0°C/min. to 300°C @ 5°C/min. (hold 10 min.)  
 Det.: Micromass Ultima high-resolution mass spectrometer  
 Ionization: EI  
 Mode: SIR

### Tetrachlorodibenzofuran congeners on an Rtx®-Dioxin2 column.



Column: Rtx®-Dioxin2, 60m, 0.25mm ID, 0.25µm (cat.# 10758)  
 Sample: WMS-01 Reference Material, Wellington Laboratories  
 Inj.: Splitless  
 Inj. temp.: 250°C  
 Carrier gas: helium, constant flow  
 Flow rate: 1.5mL/min.  
 Oven temp.: 130°C (hold 1.0 min.) to 200°C @ 40°C/min. to 235°C @ 3.0°C/min. to 300°C @ 5°C/min. (hold 10 min.)  
 Det.: Micromass Ultima high-resolution mass spectrometer  
 Ionization: EI  
 Mode: SIR

Chromatograms courtesy of Terry Kolic, Karen MacPherson, Eric Reiner, Ontario Ministry of the Environment, Toronto, Ontario, Canada