

Dioxin & Furan Congeners Analysis

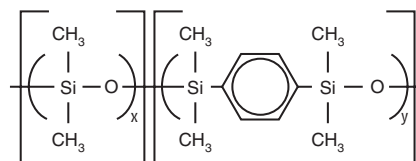
Rxi®-5Sil MS Columns (fused silica)

(low polarity Crossbond® silarylene phase; selectivity close to 5% phenyl/95% dimethyl arylene polysiloxane)

- Engineered to be a low bleed GC/MS column.
- Excellent inertness for active compounds.
- General purpose columns—ideal for GC/MS analysis of polycyclic aromatic compounds, chlorinated hydrocarbons, phthalates, phenols, amines, organochlorine pesticides, organophosphorus pesticides, drugs, solvent impurities, and hydrocarbons.
- Temperature range: -60 °C to 350 °C.

The Rxi®-5Sil MS stationary phase incorporates phenyl groups in the polymer backbone. This improves thermal stability, reduces bleed, and makes the phase less prone to oxidation. Rxi®-5Sil MS columns are ideal for GC/MS applications requiring high sensitivity, including use in ion trap systems.

Rxi®-5Sil MS Structure



similar phases

DB-5MS, VF-5ms, CP-Sil 8 Low-Bleed/MS

also available

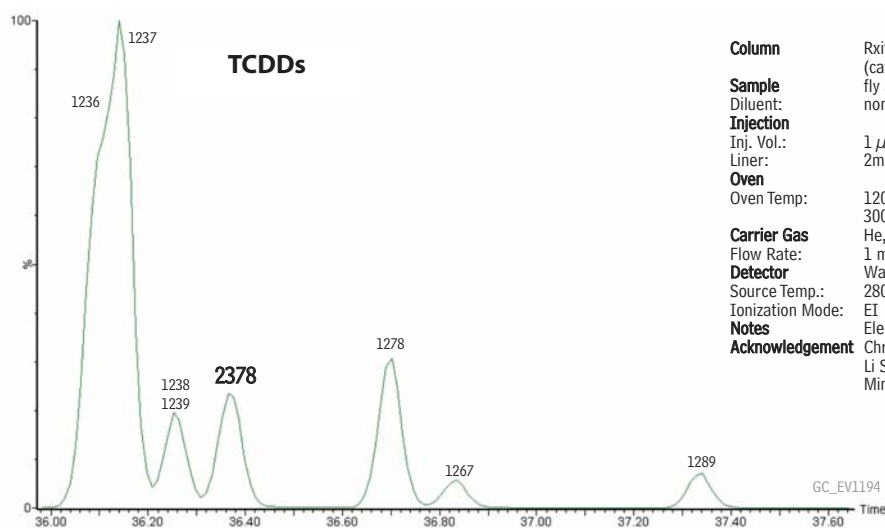
Other Dimensions!

See **page 42** for our complete listing of Rxi®-5Sil MS columns.

ID	df	temp. limits	30-Meter	60-Meter*
0.18mm	0.10µm	-60 to 320/350°C		43607
0.25mm	0.25µm	-60 to 330/350°C	13623	

*60m, 0.18mm ID, 0.10µm column (cat.# 43607) intended for dioxin and furan analysis only.

Dioxins (TCDDs) and furans (TCDFs) in fly ash on an Rxi®-5Sil MS column.



Column Rxi®-5Sil MS, 60 m, 0.18 mm ID, 0.10 µm (cat.# 43607)
Sample fly ash extract
Diluent: nonane
Injection
 Inj. Vol.: 1 µL splitless
 Liner: 2mm Splitless liner (cat.# 20712)
Oven
 Oven Temp: 120 °C (hold 1 min.) to 160 °C at 10 °C/min. to 300 °C at 2.5 °C/min.
Carrier Gas He, constant flow
 Flow Rate: 1 mL/min.
Detector Waters AutoSpec Ultima Mass Spectrometer
 Source Temp.: 280 °C
 Ionization Mode: EI
Notes Electron Ionization at 40eV
Acknowledgement Chromatogram courtesy of Karen MacPherson, Li Shen, Terry Kolic, and Eric Reiner at the Ontario Ministry of the Environment

