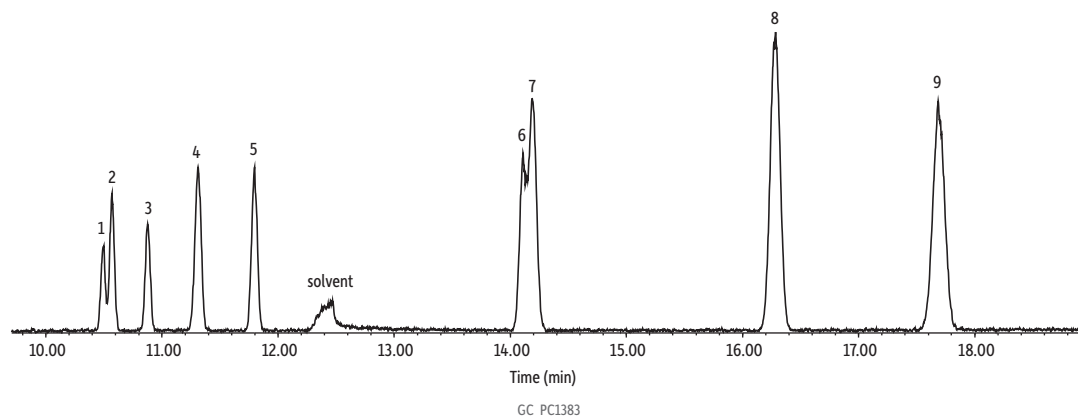


Freons on Rtx-200

- 20-minute isothermal method providing separation of nine common Freons.



	t _R (min)
1. Dichlorodifluoromethane	10.489
2. Chlorodifluoromethane	10.578
3. Ethane, 1,1-difluoro-	10.879
4. Dichlorotetrafluoroethane	11.309
5. Ethane, 1-chloro-1,1-difluoro-	11.797
6. Vinyl bromide	14.114
7. Trichloromonofluoromethane	14.196
8. 2,2-Dichloro-1,1,1-trifluoroethane	16.282
9. 1,1,2-Trichlorotrifluoroethane	17.693

Column Rtx-200, 105 m, 0.25 mm ID, 1.00 µm (cat.# 15059)
Standard/Sample Dichlorodifluoromethane (cat.# 30275)
 Freons standard (cat.# custom)
 Trichlorofluoromethane (cat.# 30421)

Diluent: Methanol
Conc.: 500 ppm

Injection
Inj. Vol.: 1 µL split (split ratio 400:1)
Liner: Topaz 4.0 mm ID Precision inlet liner w/ wool (cat.# 23305)
Inj. Temp.: 250 °C
Split Vent Flow Rate: 400 mL/min
Gas Saver Time: 2 min
Gas Saver Flow Rate: 20 mL/min

Oven
Oven Temp.: 32 °C (hold 20 min)
Carrier Gas He, constant flow
Flow Rate: 1 mL/min
Linear Velocity: 19.303 cm/sec @ 32 °C
Dead Time: 9.553 min @ 40 °C

Detector
Mode: Scan
Scan Program:

Group	Start Time (min)	Scan Range (amu)	Scan Rate (scans/sec)
1	10	50-500	10.8

Transfer Line Temp.: 250 °C
Analyzer Type: Quadrupole
Source Type: Extractor
Source Temp.: 230 °C
Quad Temp.: 150 °C
Electron Energy: 1708 eV
Tune Type: PFTBA
Ionization Mode: EI
Instrument Agilent 7890B GC & 5977B MSD
Sample Preparation Standards were combined and diluted to 500 ppm, then transferred to a 2 mL vial (cat.# 21142) and capped with a short screw cap (cat.# 24498).