



**SAPIENS-X5MS**

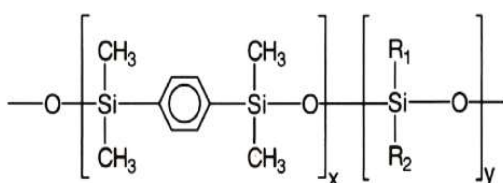
## SAPIENS-X5MS

### Polysiloxane containing p-silphenylene

- Ideal column for semivolatile compounds.
- selectivity similar to Meta.X5
- New generation of column incorporates arylene groups in the polymer structure to provide improved thermal stability, reduced column bleed and optimal resolution for aromatic compounds.
- Stringent quality control test guarantees total and optimal signal/ noise ratio for the more active compounds such as 2,4-dinitrophenol, 4-nitroaniline and pentachlorophenol that normally suffer adsorption problems.

#### SAPIENS-X5MS Equivalent Phase

**Agilent:** DB-5MS UI, VF-5MS  
**Restek:** Rxi-5Sil MS  
**Phenomenex:** ZB-5Plus  
**SGE:** BPX5  
**Sigma-Aldrich:** SLB-5MS  
**Macherey-Nagel:** OPTIMA-5MS Accent



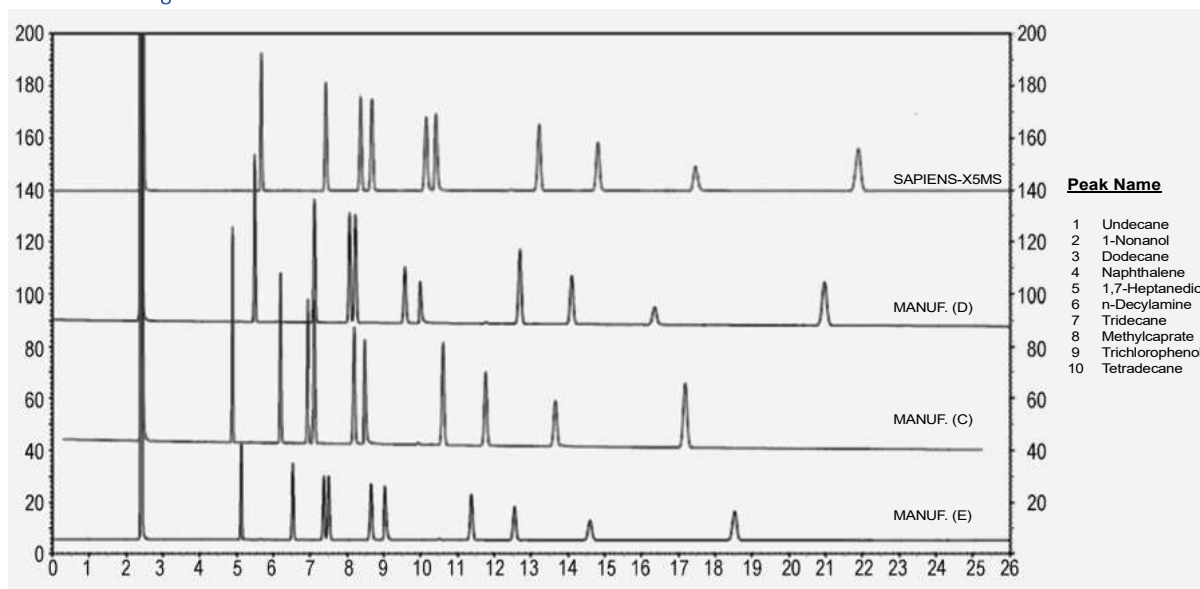
Structure of Polysiloxane containing p-silphenylene

#### SAPIENS-X5MS

Internal Diam.(mm)	Length (m)	Film Thickness (µm)	Temp limits (°C)	Part. N°. (P/N)
0,10	10	0,10	-60 to 325/350	TR-450141
	20	0,10	-60 to 325/350	TR-450181
0,18	20	0,18	-60 to 325/350	TR-450984
	20	0,36	-60 to 325/350	TR-453484
0,25	15	0,25	-60 to 325/350	TR-450212
	15	1,00	-60 to 325/350	TR-451012
	25	0,25	-60 to 325/350	TR-450222
	30	0,25	-60 to 325/350	TR-450232
	30	0,50	-60 to 325/350	TR-450532
	30	1,00	-60 to 325/350	TR-451032
0,32	50	0,25	-60 to 325/350	TR-450252
	60	0,25	-60 to 325/350	TR-450262
	60	1,00	-60 to 325/350	TR-451062
	30	0,25	-60 to 325/350	TR-450213
	30	0,50	-60 to 325/350	TR-450533
	30	1,00	-60 to 325/350	TR-451033
60	1,00	-60 to 325/350	TR-451063	

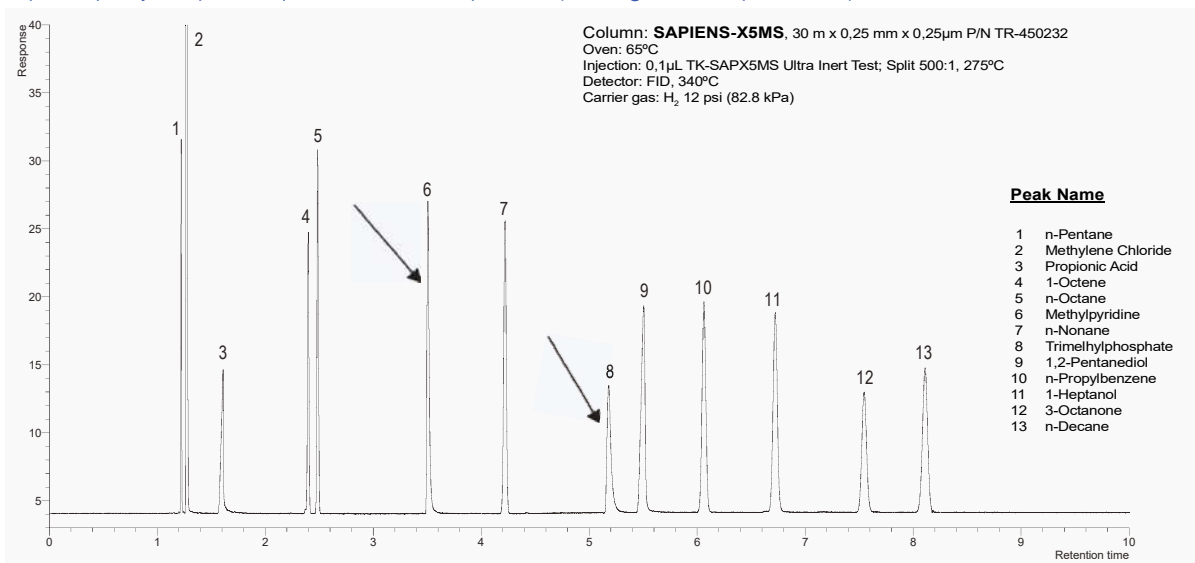
#### SAPIENS-X5MS: Classical Inertness Test comparison vs major manufacturers

All columns are good

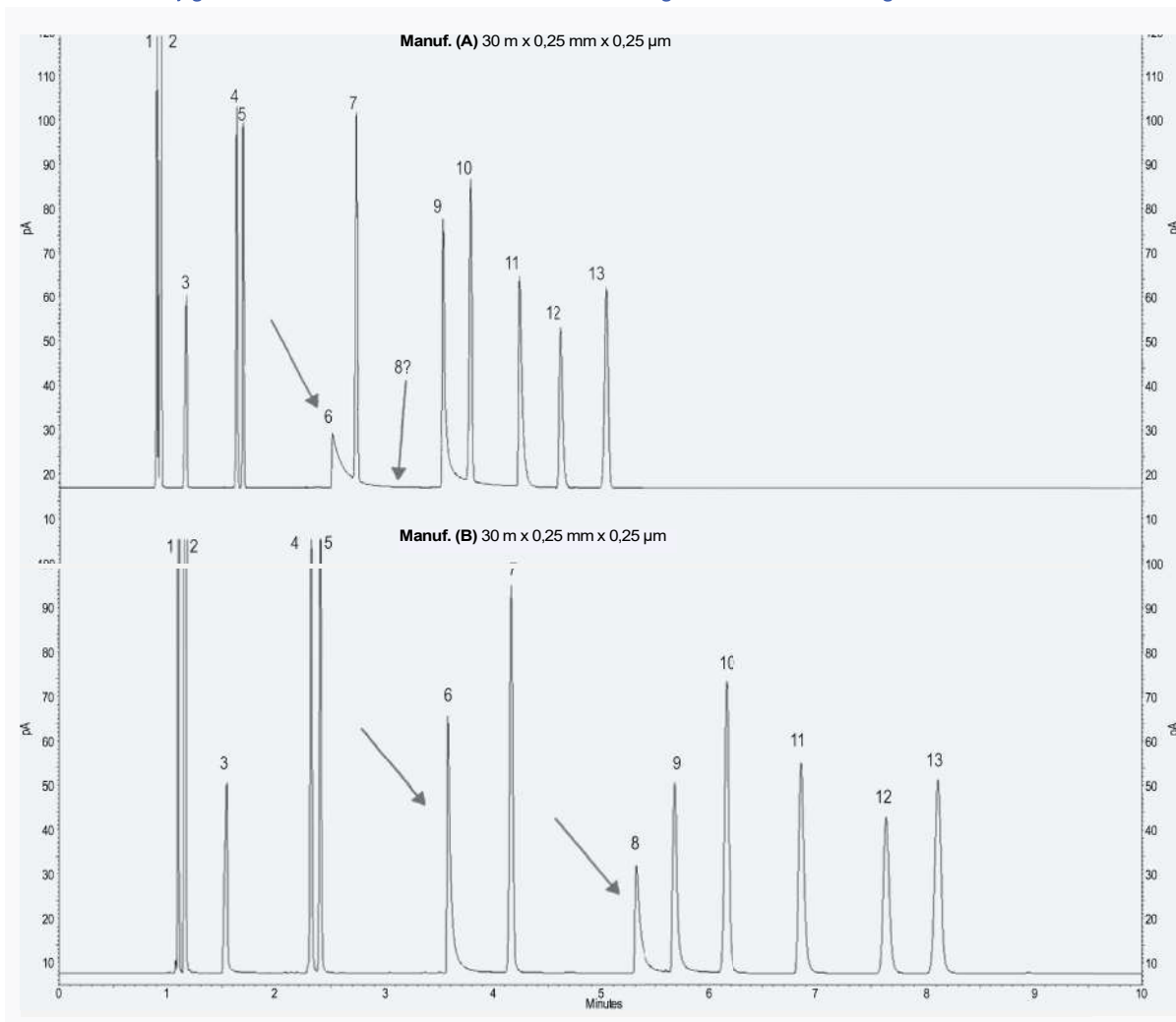


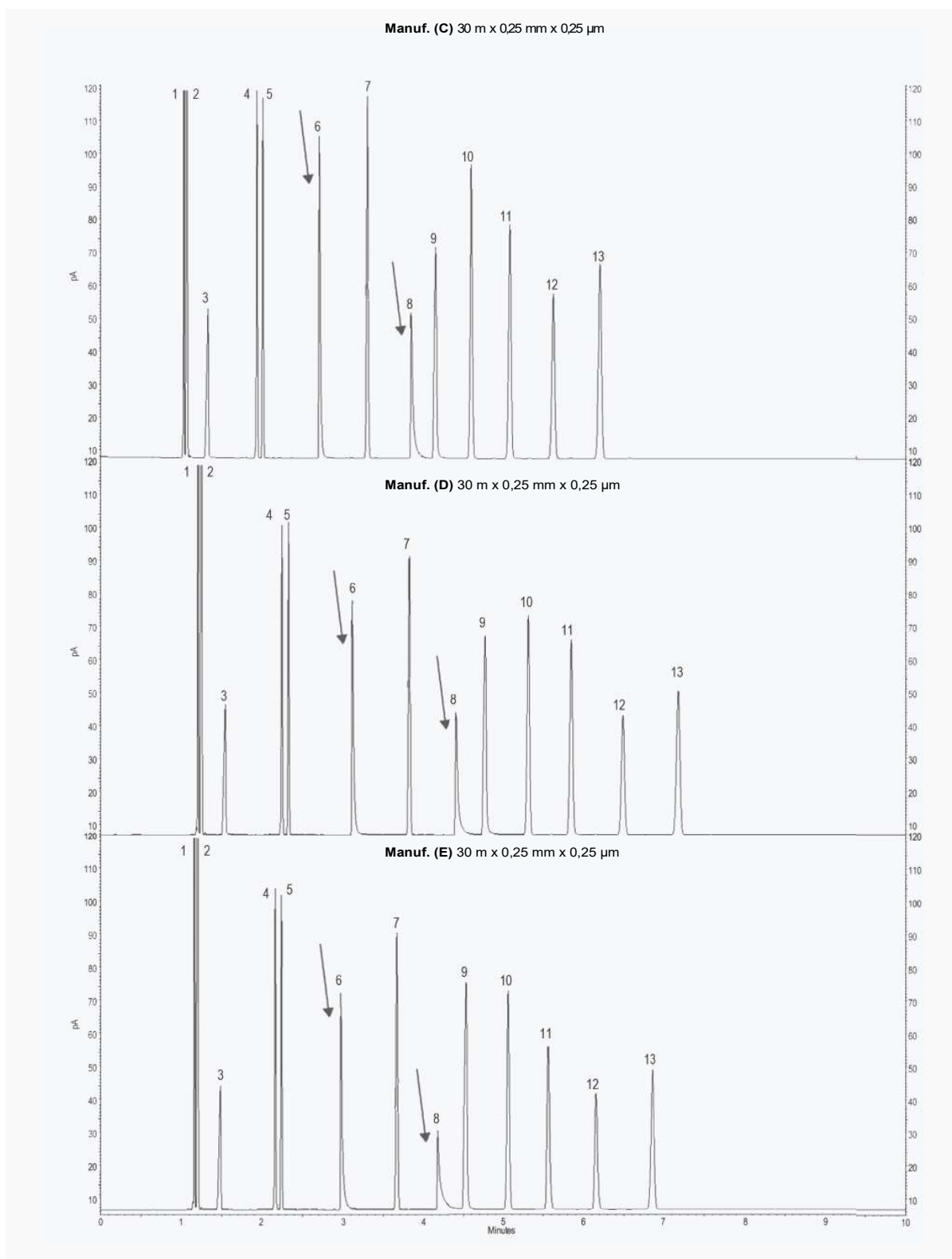


SAPIENS-X5MS: Ultra Inert Test \* Performance against major ultra inert column manufacturers  
Superior quality and peak shape for all active compounds \*( J.Luong et al. J.Sep.Sci. 2007)



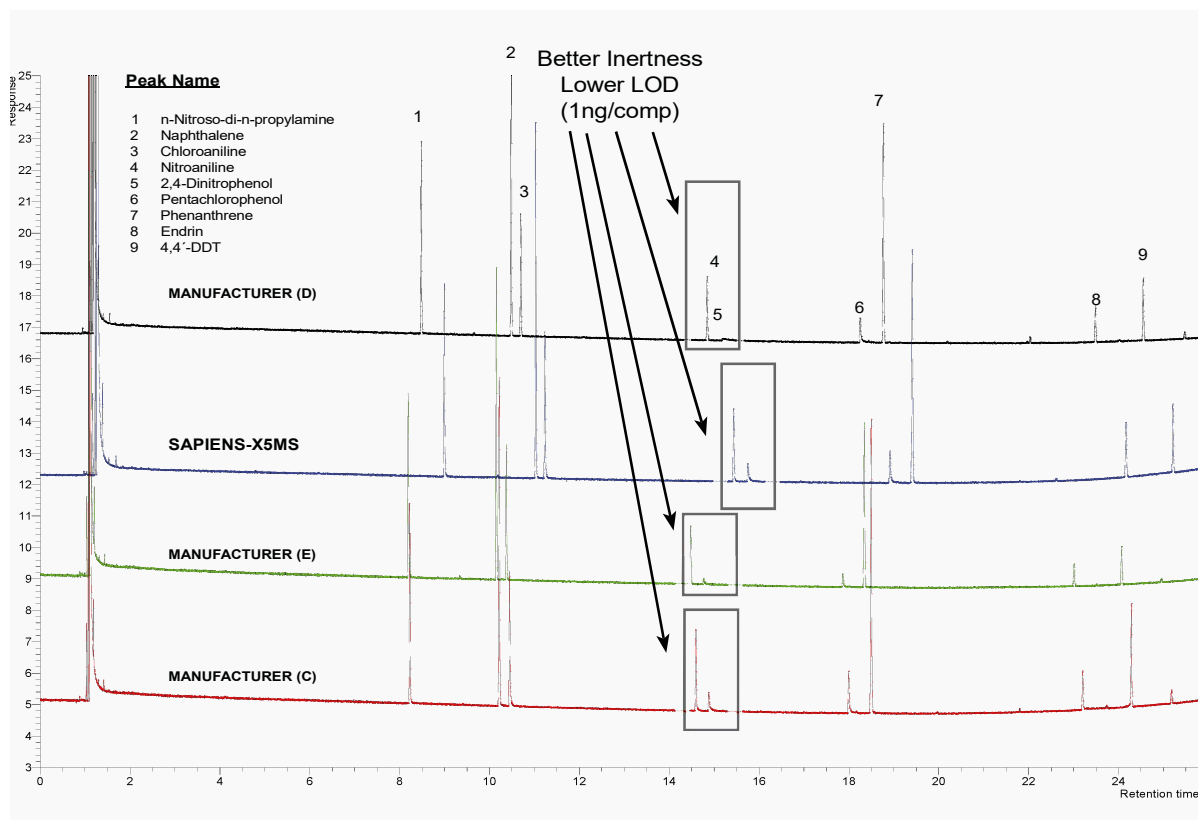
All columns are very good with a classical test but not all are excellent against a more demanding test





\* Columns used for comparison are from: Agilent, Phenomenex, Supelco, SGE and Restek (listed in random order)

SAPIENS-X5MS: Alinines, Phenols and Pesticides test Performance against major ultra inert column manufacturers  
Improved performance for active compounds



SAPIENS-X5MS: Epichlorohydrin GC analysis in drinking water with SAPIENS-X5MS column

