



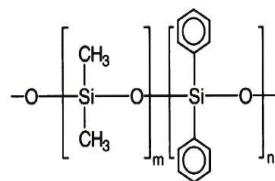
SAPIENS-5MS



SAPIENS-5MS

95% Dimethyl - 5% diphenylpolysiloxane, bonded and crosslinked phase

- Ultra low bleed and high chemical inertness
- Excellent thermal stability
- Selectivity identical to TRB-5
- Minimum peak tailing for active analytes. Specifically tested for chemical inertness towards active compounds
- Ideal for trace analysis by GC/MS. Improves mass spectral integrity and quantitation at low concentrations.

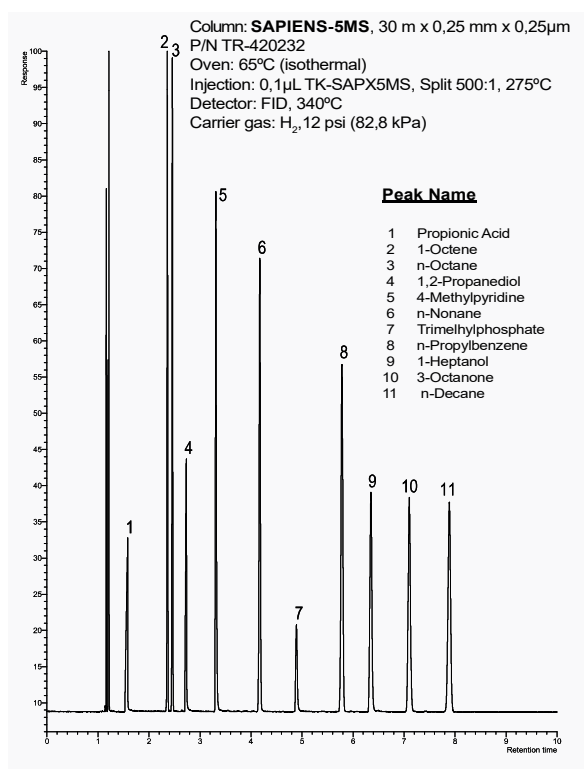


Structure of poly (dimethyl-diphenyl) siloxane

SAPIENS-5MS Equivalent Phase

Agilent: HP-5 MS UI
Restek: Rxi-5MS
Phenomenex: ZB-5Plus
Macherey-Nagel: OPTIMA-5MS

SAPIENS-5MS: Ultra Inert Test (TK-SAPX5MS). Excellent performance for all key compounds

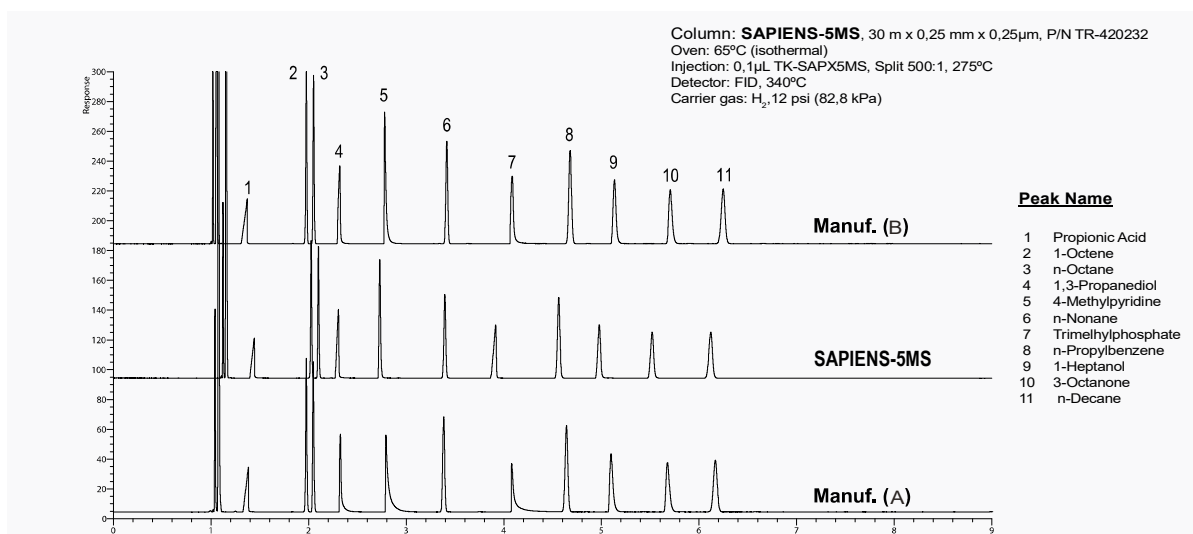


Ultra Inert Test TK-SAPX5MS (composition)

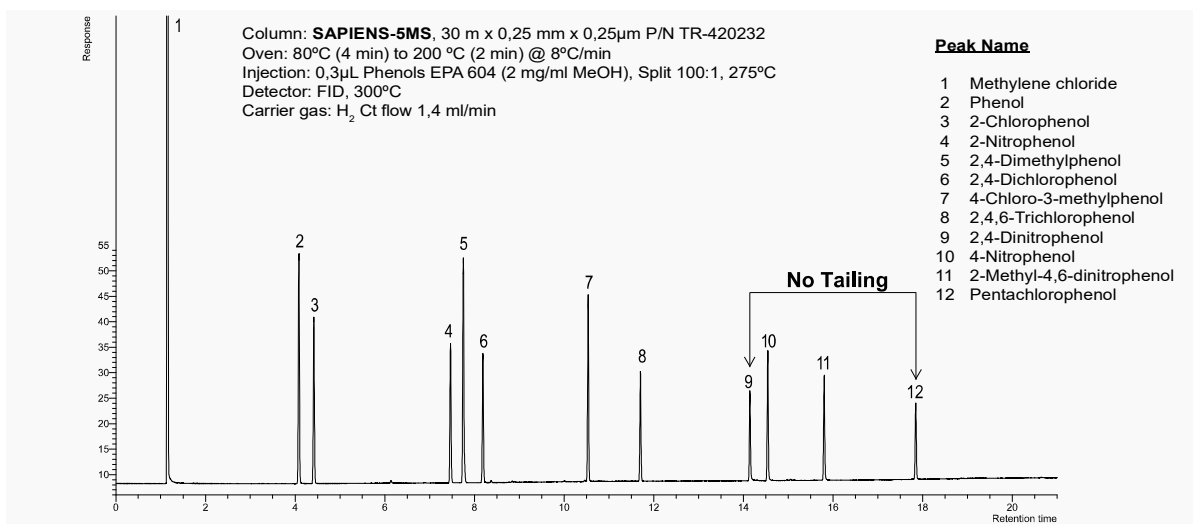
Elution	Compound	Key Control Parameter
1	Propionic Acid	Basicity
2	1-Octene	Polarity
3	n-Octane	Hydrocarbon
4	1,2-Propanediol	Silanol
5	4-Methylpyridine	Acidity
6	n-Nonane	Hydrocarbon
7	Trimethylphosphate	Acidity
8	n-Propylbenzene	Hydrocarbon
9	1-Heptanol	Silanol
10	3-Octanone	Polarity
11	n-Decane	Hydrocarbon



SAPIENS-5MS: Ultra Inert Test (TK-SAPX5MS). Performance against major ultra inert column manufacturers Excellent performance for all key compounds

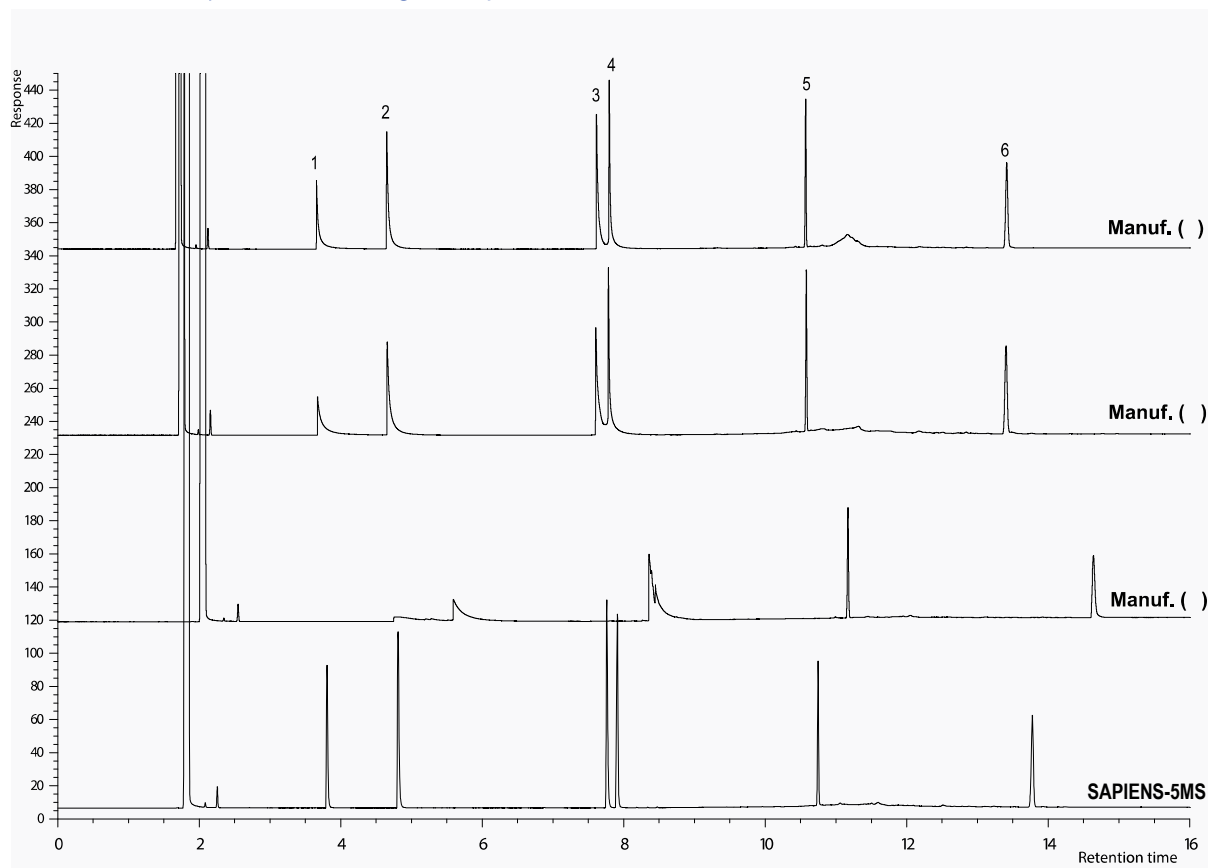


SAPIENS-5MS: Acidity Test - Perfect peak shapes

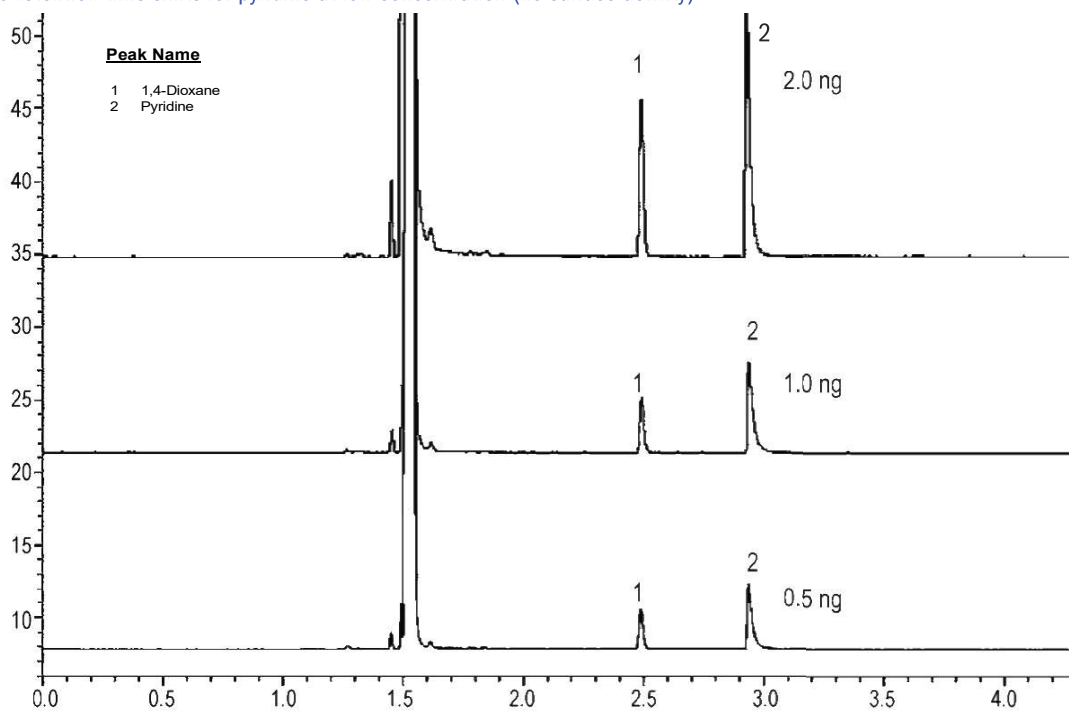




SAPIENS-5MS: Basicity test Performance against major ultra inert column manufacturers

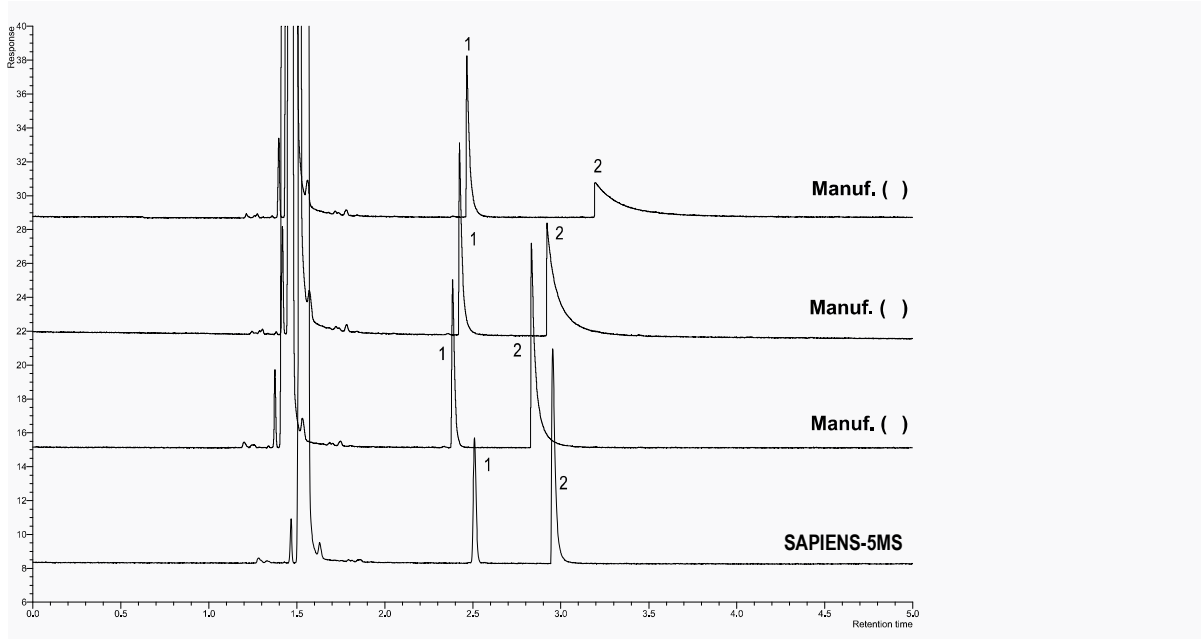


SAPIENS-5MS: High column inertness for 1,4-dioxane and pyridine No retention time shifts for pyridine at low concentration (no surface activity)



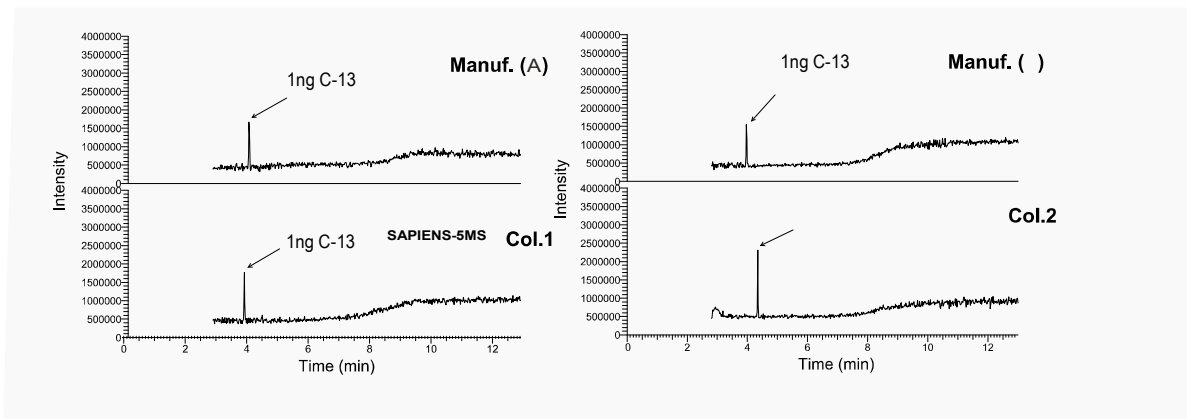


SAPIENS-5MS: 1,4-dioxane and pyridine Performance against major ultra inert column manufacturers



SAPIENS-5MS: Bleed (GC-MS) comparison test

Bleed Curves related to 1 ng of tridecane in MS detector



SAPIENS-5MS

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-420141
	20	0,10	-60 to 325/350	TR-420181
0,18	20	0,18	-60 to 325/350	TR-420984
0,20	12	0,33	-60 to 325/350	TR-4233B9
	25	0,33	-60 to 325/350	TR-423329
0,25	15	0,25	-60 to 325/350	TR-420212
	30	0,25	-60 to 325/350	TR-420232
	30	0,50	-60 to 325/350	TR-420532
	30	1,00	-60 to 325/350	TR-421032
0,32	60	0,25	-60 to 325/350	TR-420262
	30	0,25	-60 to 325/350	TR-420233
	30	1,00	-60 to 325/350	TR-421033