

# MACHEREY-NAGEL

## OPTIMA<sup>®</sup> 1301 MS

Chromatography



Low bleed GC solution for sophisticated environmental analysis

- Mid-polar columns  
Close equivalent to 6 % cyanopropylphenyl –  
94 % dimethylpolysiloxane · USP G43
- Low bleed silarylene phase  
100 % ion trap and quadrupol MS compatibility
- Excellent deactivation  
Reliable quantification even for critical samples at ultra trace levels



**MACHEREY-NAGEL**

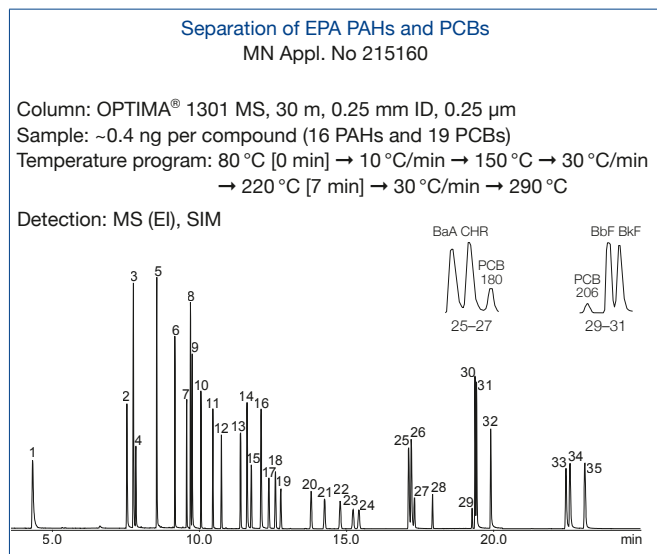
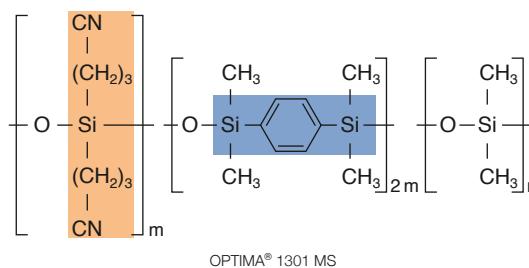
[www.mn-net.com](http://www.mn-net.com)



## Silarylene synthesis technology - symmetrically substituted siloxanes and integrated phenyl rings

Symmetrically substituted **cyanopropylsilanes**, along with integrated phenyl rings (**silarylene**) resulted in a considerable increase of the chemical and thermal stability of the polysiloxane. This provides significantly extended column life time and less detector contamination due to reduced column bleed.

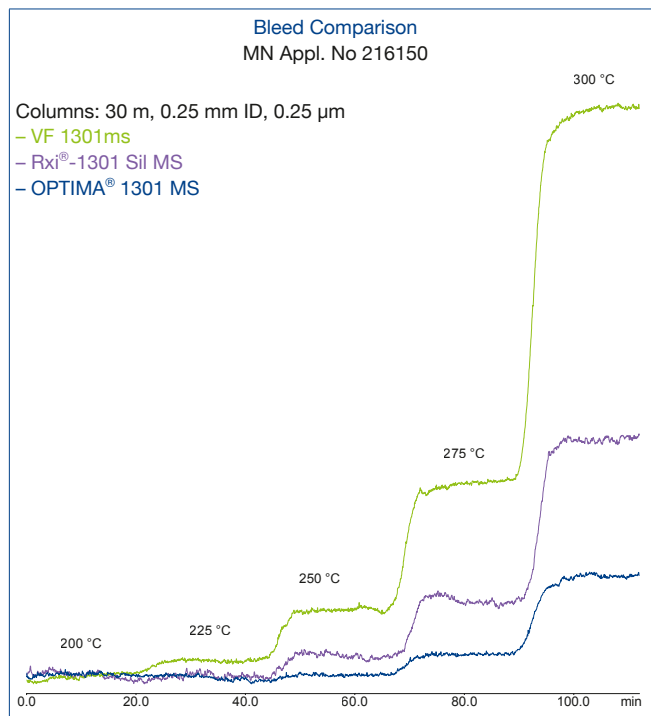
The OPTIMA® 1301 MS quality outperforms conventional columns with equal phase polarity.



Max. temperature for isothermal operation 300 °C, max. temperature for short isotherms in a temperature program 320 °C

### Similar phases

- VF-1301ms, Rxi®-1301Sil MS, TG-1301MS



Columns were tested under equal conditions and not representative of all applications

Further applications online at [www.mn.net.com/apps](http://www.mn.net.com/apps)

### Ordering information

ID	Length	Film thickness	Agilent® VF-1301ms	RESTEK® Rxi®-1301 Sil MS	Thermo TG-1301MS	MACHERY-NAGEL OPTIMA® 1301 MS
0.25 mm	30 m	0.25 µm	CP9053	16094	26091-1420	726640.30
0.25 mm	60 m	0.25 µm		16096	26091-1540	726640.60
0.32 mm	30 m	0.25 µm		16098	26091-1430	726641.30
0.32 mm	60 m	0.25 µm			26091-1550	726641.60
0.32 mm	30 m	1.00 µm		16099	26091-2970	726642.30
0.32 mm	60 m	1.00 µm		16100	26091-3090	726642.60
0.53 mm	30 m	1.00 µm	CP9063	16102	26091-2980	726643.30
0.53 mm	60 m	1.00 µm			26091-3100	726643.60

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