



**Rxi®-XLB Columns** (fused silica)

(low-polarity proprietary phase)

- General-purpose columns exhibiting extremely low bleed. Ideal for many GC-MS applications, including pesticides, PCB congeners (e.g., Aroclor mixes), PAHs.
- Unique selectivity.
- Temperature range: 30 °C to 360 °C.

Improvements in polymer synthesis and tubing deactivation enable us to make inert, stable Rxi®-XLB columns especially well-suited for analyzing active, high molecular weight compounds with sensitive GC-MS systems, including ion trap detectors. Excellent efficiency, coupled with inertness, low bleed, and high thermal stability, make Rxi®-XLB columns ideal for analyzing semivolatile compounds in drinking water.

ID	df	temp. limits*	15-Meter cat.#	30-Meter cat.#	60-Meter cat.#
0.25 mm	0.10 µm	30 to 340/360 °C	13705	13708	
	0.25 µm	30 to 340/360 °C	13720	13723	13726
	0.50 µm	30 to 340/360 °C		13738	
	1.00 µm	30 to 340/360 °C		13753	
0.32 mm	0.25 µm	30 to 340/360 °C		13724	13727
	0.50 µm	30 to 340/360 °C		13739	
	1.00 µm	30 to 340/360 °C		13754	
0.53 mm	0.50 µm	30 to 320/360 °C		13740	

ID	df	temp. limits	20-Meter cat.#
0.18 mm	0.18 µm	30 to 340/360 °C	43702

\*Maximum temperatures listed are for shorter length columns. Longer columns may have a different maximum temperature.

**similar phases**

DB-XLB, VF-Xms, MR1, ZB-XLB

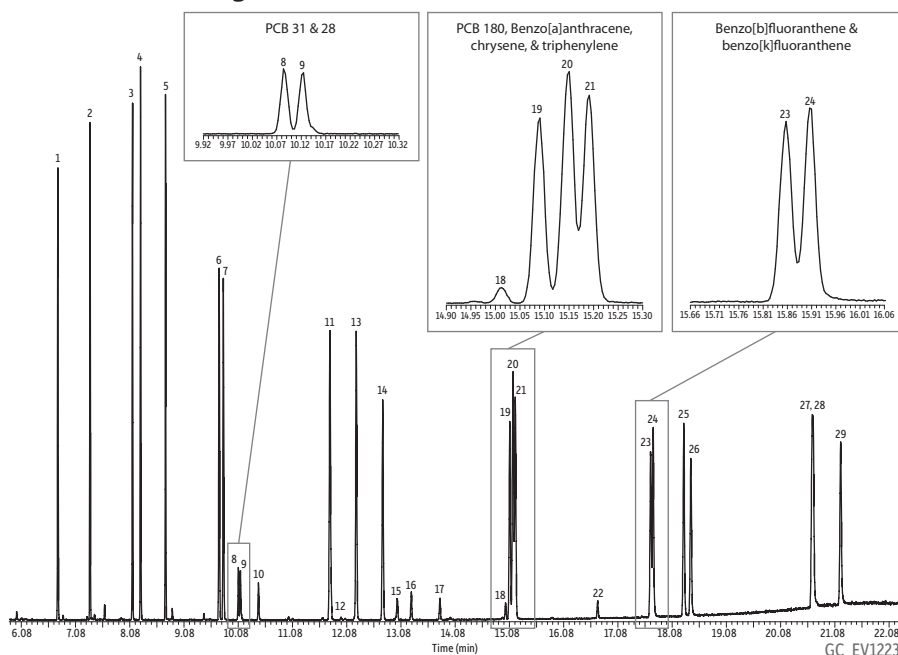


**Rxi®-XLB columns for Method 525**

In combination with an Rxi®-XLB column, simple adjustments to the injection conditions can greatly improve sensitivity for active and high molecular weight Method 525 target compounds.

By eliminating contact between the sample and the hot metal surfaces in the injection port, a drilled Uniliner® inlet liner prevents analytes from degrading in the injection port.

**PAHs and PCB Congeners on Rxi®-XLB**



Peaks	Conc. (µg/mL)
1. Naphthalene	5
2. 2-Methylnaphthalene	5
3. Acenaphthylene	5
4. Acenaphthene	5
5. Fluorene	5
6. Phenanthrene	5
7. Anthracene	5
8. PCB 31	1
9. PCB 28	1
10. PCB 52	1
11. Fluoranthene	5
12. PCB 101	1
13. Pyrene	5
14. 2-Methylfluoranthene	5
15. PCB 118	1
16. PCB 153	1
17. PCB 138	1
18. PCB 180	1
19. Benzo[a]anthracene	5
20. Chrysene	5
21. Triphenylene	5
22. PCB 194	1
23. Benzo[b]fluoranthene	5
24. Benzo[k]fluoranthene	5
25. Benzo[e]pyrene	5
26. Benzo[a]pyrene	5
27. Dibenzo[a,h]anthracene	5
28. Indeno[1,2,3-cd]pyrene	5
29. Benzo[g,h,i]perylene	5

<b>Column</b>	Rxi®-XLB, 30 m, 0.25 mm ID, 0.25 µm (cat.# 13723)	<b>Liner:</b>	2.0 mm ID straight inlet liner w/wool (cat.# 21718)	<b>Temp.:</b>	300 °C
<b>Sample</b>	SV calibration mix #5 / 610 PAH mix (cat.# 31011) Benzo(e)pyrene (cat.# custom) Triphenylene (cat.# custom) 2-Methylnaphthalene (cat.# 31285) 2-Methylfluoranthene (cat.# custom) PCB congener standard #2 (cat.# 32294) PCB 31 (cat.# custom)	<b>Inj. Temp.:</b>	300 °C	<b>Analyzer Type:</b>	Quadrupole
<b>Diluent:</b>	Dichloromethane	<b>Purge Flow:</b>	50 mL/min	<b>Source Temp.:</b>	280 °C
<b>Injection</b>	0.5 µL splitless (hold 1.75 min)	<b>Oven</b>		<b>Electron Energy:</b>	70 eV
<b>Inj. Vol.:</b>		<b>Oven Temp.:</b>	40 °C (hold 2 min) to 240 °C at 30 °C/min (hold 2 min) to 340 °C at 10 °C/min (hold 5 min)	<b>Solvent Delay</b>	
		<b>Carrier Gas</b>	He, constant flow	<b>Time:</b>	4 min
		<b>Flow Rate:</b>	1 mL/min	<b>Tune Type:</b>	manual
		<b>Detector</b>	MS	<b>Ionization Mode:</b>	EI
		<b>Mode:</b>	Scan	<b>Scan Range:</b>	45-550 amu
		<b>Transfer Line</b>		<b>Scan Rate:</b>	5 scans/sec
				<b>Instrument</b>	PE Clarus 500 GC & Clarus 500 MS