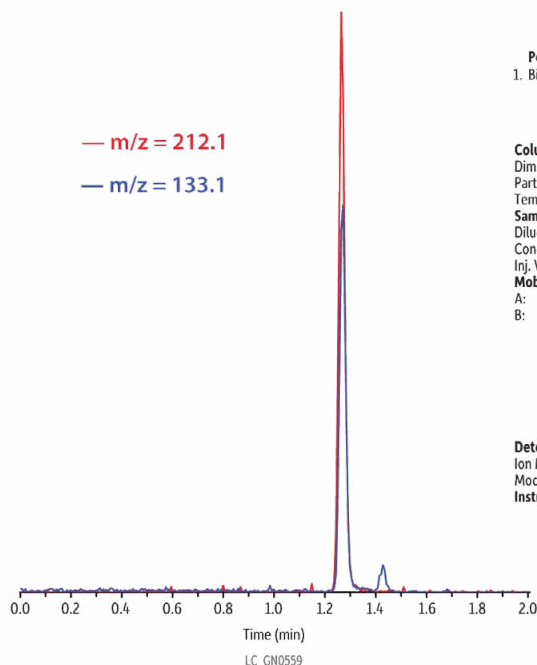


4-Minute Bisphenol A (BPA) Analysis Increases Sample Throughput

- Bisphenol A elutes in less than 2 minutes, increasing lab productivity.
- Narrow, symmetrical peak shape means easy, accurate quantitation.
- Alternate selectivity compared to a C18 allows easier identification in difficult matrices.
- Fast separation regardless of instrument platform—compatible with both HPLC and UHPLC systems.

Bisphenol A (BPA) is a high production volume industrial chemical used to make polycarbonate plastics and epoxy resins that are used in many industries. BPA is released into the environment through industrial effluents and can also leach from packaging materials into food and beverage products. Although BPA concentrations are often low, repeated daily exposure can result in high cumulative doses. Interest in BPA analysis is growing as bisphenol A is an endocrine disruptor that can mimic estrogen, thus disrupting normal hormone levels and causing a significant impact on health. It is also potentially linked to obesity, diabetes, ADHD, and other health conditions. BPA HPLC analysis can be done using a C18 LC column, but analysis times can be long and peak shape often is not ideal.

Restek's Raptor™ Biphenyl column is a better alternative than a C18 column for BPA analysis. As shown in the chromatogram below, a Raptor™ Biphenyl column provides a fast and selective means to isolate and quantitate bisphenol A by LC-MS/MS. It generates narrow, symmetrical peaks in a fast 4-minute analysis time, with bisphenol A eluting in less than 2 minutes. In addition, Raptor™ Biphenyl columns can be used with both conventional HPLC and UHPLC instruments. For BPA analysis, Raptor™ Biphenyl columns are recommended because they provide better peak shapes with short analysis times that allow labs to increase sample throughput and overall productivity.



Peaks	tr (min)	Precursor Ion	Quantifer Product Ion	Qualifier Product Ion
1. Bisphenol A (BPA)	1.27	227.1	212.1	133.1

Column Raptor™ Biphenyl (cat.# 9309552)
Dimensions: 50 mm x 2.1 mm ID
Particle Size: 5 µm
Temp.: 30 °C
Sample
Diluent: 50:50 Mobile phase A:mobile phase B
Conc.: 100 ng/mL
Inj. Vol.: 10 µL
Mobile Phase
A: 5 mM Ammonium acetate in water
B: Acetonitrile

Time (min)	Flow (mL/min)	%A	%B
0.00	0.5	75	25
2.00	0.5	0	100
2.01	0.5	75	25
4.00	0.5	75	25

Detector MS/MS
Ion Mode: ESI-
Mode: MRM
Instrument HPLC



Raptor™ Biphenyl LC Columns (USP L11)

Description	cat.#
5 µm Columns	
50 mm, 2.1 mm ID	9309552



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