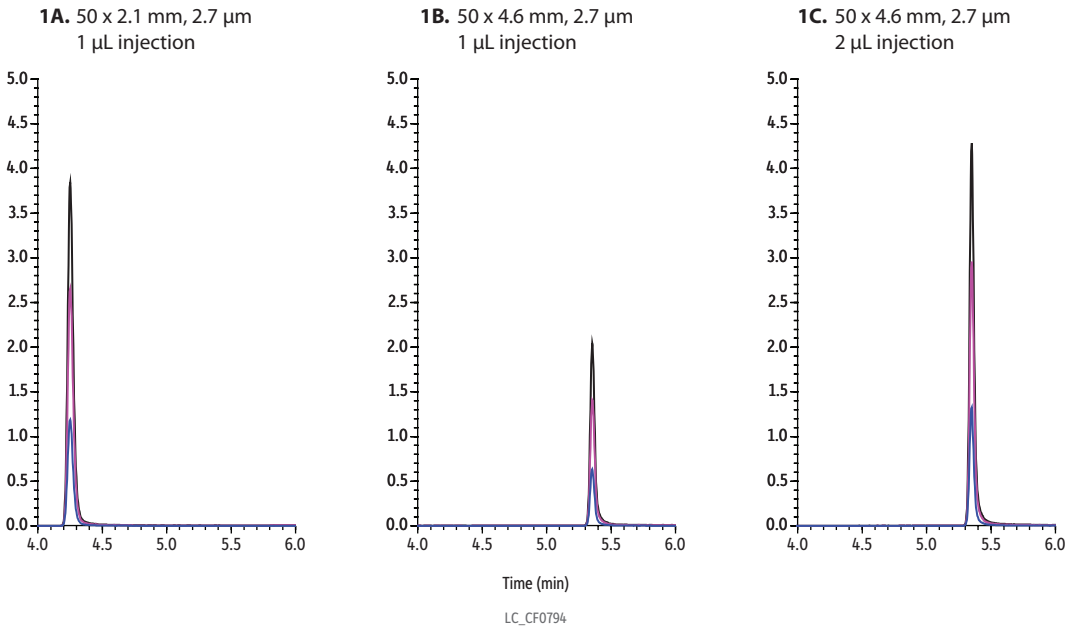
Buprenorphine on Raptor Biphenyl (Figure 1 for Biphenyl Advantage Article)



Peaks	Precursor	Product Ion 1	Product Ion 2
1. Buprenorphine	468.3	55.1	414.2

Column See notes
Temp.: 45 °C
Standard/Sample
Diluent: 50:50 Water:methanol
Conc.: 50 ng/mL
Mobile Phase
A: Water, 0.1% formic acid
B: Methanol, 0.1% formic acid

Time (min)	%A	%B
0.00	90	10
6.00	25	75
7.00	0	100
8.00	0	100
8.01	90	10
9.00	90	10

Flow: 0.6-0.9 mL/min

Detector Shimadzu 8060
Ion Source: Electrospray
Ion Mode: ESI+
Instrument Shimadzu Nexera X2
Sample Preparation Standards were aliquoted into 2 mL, screw-thread vials (cat.# 21143) and capped with short-cap, screw-vial closures (cat.# 24498).
Notes

Figure 1A
Column: Raptor Biphenyl 50 x 2.1 mm, 2.7 µm (cat.# 9309A52)
Guard: Raptor Biphenyl EXP guard column cartridge 5 mm, 2.1 mm ID, 2.7 µm (cat.# 9309A0252)
Inj. Vol.: 1 µL
Flow (mL/min): 0.6

Figure 1B
Column: Raptor Biphenyl 50 x 4.6 mm, 2.7 µm (cat.# 9309A55)
Guard: Raptor Biphenyl EXP guard column cartridge 5 mm, 4.6 mm ID, 2.7 µm (cat.# 9309A0250)
Inj. Vol.: 1 µL
Flow (mL/min): 0.9

Figure 1C
Column: Raptor Biphenyl 50 x 4.6 mm, 2.7 µm (cat.# 9309A55)
Guard: Raptor Biphenyl EXP guard column cartridge 5 mm, 4.6 mm ID, 2.7 µm (cat.# 9309A0250)
Inj. Vol.: 2 µL
Flow (mL/min): 0.9