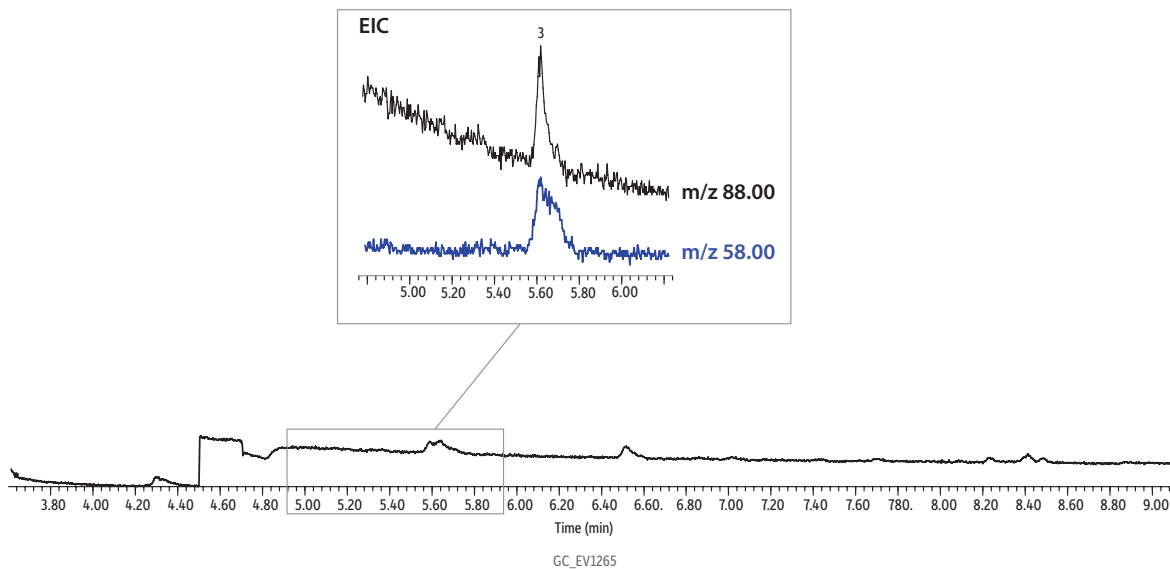


1,4-Dioxane in Drinking Water Extract (10 pg On-Column) on Rxi-624Sil MS
(extracted ion chromatogram)



Peaks

1. Tetrahydrofuran-d8 (IS)
2. 1,4-Dioxane-d8 (SS)
3. 1,4-Dioxane

Tetrahydrofuran-d8 (IS) and 1,4-dioxane-d8 (SS) were not detected.

Column	Rxi-624Sil MS, 30 m, 0.25 mm ID, 1.40 µm (cat.# 13868) using Rxi guard column 5 m, 0.25 mm ID (cat.# 10029) with Universal Press-Tight connectors (cat.# 20429)			
Standard/Sample	Tetrahydrofuran-d8 (cat.# 30112) 1,4-Dioxane-d8 (cat.# 30614) 1,4-Dioxane (cat.# 30287)			
Diluent:	Dichloromethane			
Conc.:	10 pg/µL (IS/SS 10 pg/µL) in extract			
Injection				
Inj. Vol.:	1 µL splitless (hold 1 min.)			
Liner:	Premium 4 mm single taper w/wool (cat.# 23303)			
Inj. Temp.:	120 °C			
Purge Flow:	80 mL/min.			
Oven				
Oven Temp:	35 °C (hold 1 min.) to 120 °C at 12 °C/min. (hold 1 min.)			
Carrier Gas	He, constant flow			
Flow Rate:	1.4 mL/min.			
Linear Velocity:	30.556 cm/sec. @ 35 °C			
Detector	MS			
Mode:	SIM			
SIM Program:				
	Group	Start Time (min.)	Ion(s)	Dwell (ms)
	1	3.6	46,78,80 m/z	50
	2	4.5	96,88,64,62,58 m/z	40
Transfer Line Temp.:	280 °C			
Analyzer Type:	Quadrupole			
Source Temp.:	230 °C			
Quad Temp.:	150 °C			
Solvent Delay Time:	5.0 min.			
Tune Type:	BFB			
Ionization Mode:	EI			
Instrument	Agilent 7890A GC & 5975C MSD			
Sample Preparation	A drinking water sample fortified with 1,4-dioxane and surrogate standard was extracted using a Resprep activated coconut charcoal SPE cartridge (cat.# 26032) following EPA Method 522 protocol. Immediately after solvent elution, the extract was spiked with internal standard and brought up to final volume. The extract was then dried with anhydrous magnesium sulfate (this was a deviation from the method, which calls for sodium sulfate).			