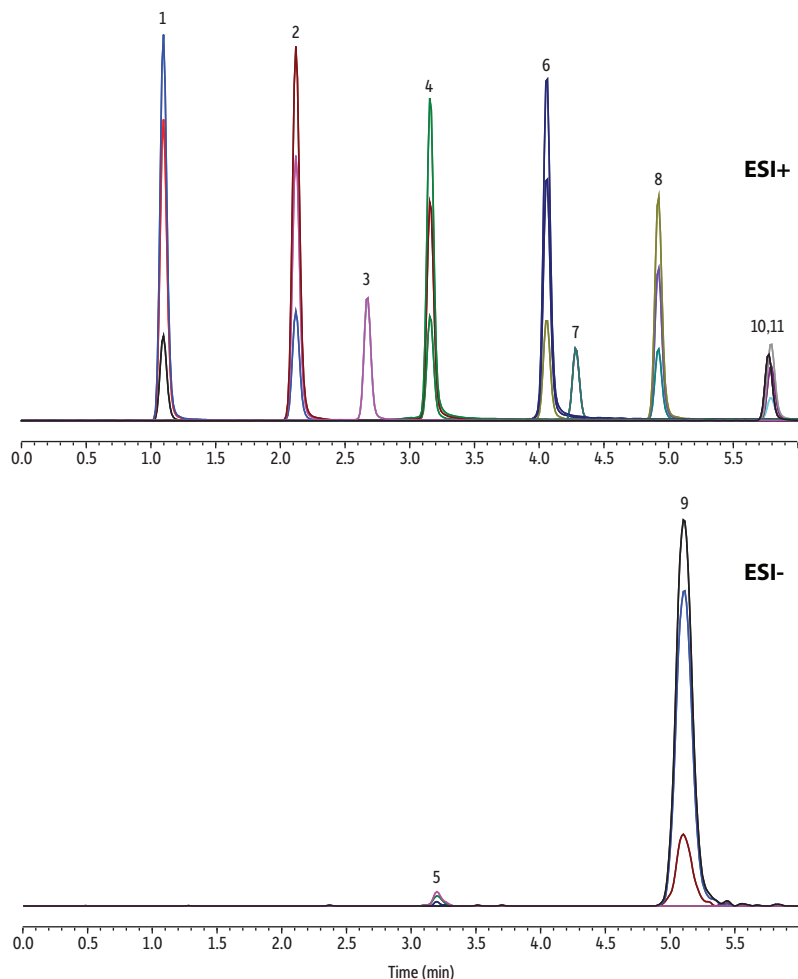


Benzalkonium Chloride (BACs) and Didecyldimethylammonium Chloride (DDACs), Chlorate, and Perchlorate on Ultra IBD



LC_FF0623

Peaks	tr (min)	Conc. (ng/mL)	Precursor 1	Product 1	Product 2	Precursor 2	Product 1	ESI Polarity
1. BAC-C8	1.10	50	248.0	91.0	156.2	-	-	+
2. BAC-C10	2.12	50	276.0	91.1	184.2	-	-	+
3. DDAC-C8	2.67	50	270.3	158.2	-	-	-	+
4. BAC-C12	3.16	50	304.0	91.1	212.2	-	-	+
5. Chlorate	3.20	500	82.8	66.9	-	84.8	69.0	-
6. BAC-C14	4.06	50	332.0	91.1	240.3	-	-	+
7. DDAC-C10	4.29	50	326.0	186.2	-	-	-	+
8. BAC-C16	4.92	50	360.0	91.1	268.3	-	-	+
9. Perchlorate	5.11	500	98.9	82.9	-	100.8	85.0	-
10. DDAC-C12	5.77	50	382.0	214.3	-	-	-	+
11. BAC-C18	5.79	50	388.0	91.1	296.3	-	-	+

Column
 Ultra IBD (cat.# 9175312)
 Dimensions: 100 mm x 2.1 mm ID
 Particle Size: 3 µm
 Pore Size: 100 Å
 Temp.: 30 °C
Standard/Sample
 Diluent: Water, 0.5% formic acid
 Inj. Vol.: 1 µL
Mobile Phase
 A: Water, 0.5% formic acid
 B: Acetonitrile, 0.5% formic acid

Time (min)	Flow (mL/min)	%A	%B
0.00	0.4	65	35
6.00	0.4	25	75
6.01	0.4	65	35
8.00	0.4	65	35

Detector
 Shimadzu 8045 MS/MS
Ion Source:
 Electrospray
Ion Mode:
 ESI+/ESI-
Instrument
 Shimadzu Nexera X2
Sample Preparation
 Samples were aliquoted into 2.0 mL, 9 mm screw-thread polypropylene vials (cat.# 23242) and capped with 9 mm solid-top polyethylene caps (cat.# 23244).