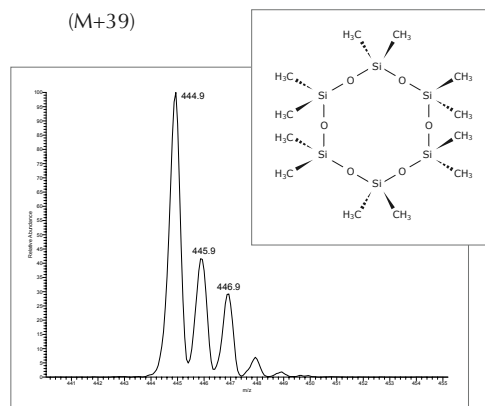
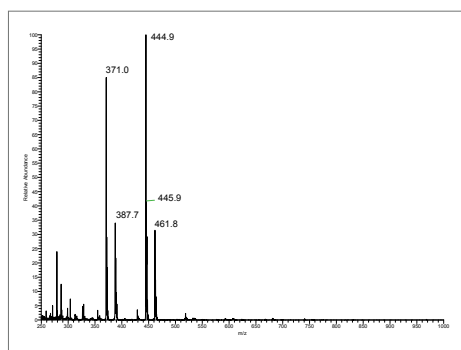


Common Background Ions for Electrospray (Positive Ion)

m/z	Ion	Compound	m/z	Ion	Compound
101	(M+Na) ⁺	DMSO	279	(M+H) ⁺	dibutylphthalate (plasticiser)
102	(M+H) ⁺	triethylamine (TEA)	282		plasticizer in polyethylene
104/106	(M+Cu) ⁺	acetonitrile	301	(M+Na) ⁺	dibutylphthalate (plasticiser)
105	(2M+Na) ⁺	acetonitrile	317	(M+K) ⁺	dibutylphthalate (plasticiser)
120	(M+Na+CH ₃ CN) ⁺	DMSO	336	(M+H) ⁺	tributyl tin formate
122	(M+H) ⁺	Tris	338	(M+H) ⁺	erucamide
123	(M+H) ⁺	dimethylaminopyridine (DMAP)	360	(M+Na) ⁺	erucamide
130	(M+H) ⁺	diisopropylethylamine (DIPEA)	371	(M+H) ⁺	polysiloxane, followed by 388
137	(M+ACN+NH ₄) ⁺	DMSO	391	(M+H) ⁺	diisooctyl phthalate (plasticiser)
144	(M+H) ⁺	tripropylamine (TPA)	413	(M+Na) ⁺	diisooctyl phthalate (plasticiser)
145/147	(2M+Cu) ⁺	acetonitrile	425	(M+Na) ⁺	unidentified contaminant (plasticiser)
146	(3M+Na) ⁺	acetonitrile	429	(M+K) ⁺	diisooctyl phthalate (plasticiser)
150	(M+H) ⁺	phenyldiethylamine	445	(M+H) ⁺	polysiloxane, followed by 462
153	(M+H) ⁺	1,8-diazabicyclo[5.4.0]undec-7-ene (DBU)	449	(2M+H) ⁺	dicyclohexyl urea (DCU)
157	(2M+H) ⁺	DMSO	454	(M+Na+CH ₃ CN) ⁺	diisooctyl phthalate (plasticiser)
159	(M+Na) ⁺	sodium trifluoroacetate	522		Unknown [†]
179	(2M+Na) ⁺	DMSO	550		Unknown [†]
186	(M+H) ⁺	tributylamine	599		Unknown
214		Unknown surfactant	798	(2M+NH ₄) ⁺	diisooctyl phthalate (plasticiser)
217		Unidentified contaminant	803	(2M+Na) ⁺	diisooctyl phthalate (plasticiser)
225	(M+H) ⁺	dicyclohexyl urea (DCU)	879		Unknown
231	(M+NH ₃) ⁺	Unknown [†]	933		Unknown
239/241	[(M.HCl)2-Cl] ⁺	triethylamine	PEG polymers exhibit peaks 44 amu apart		
242	M ⁺	tetrabutylammonium (C ₄ H ₉) ₄ N ⁺	Common Adducts:		
243	M ⁺	trityl cation	(M+NH ₄) ⁺	(M+18)	
257	(3M+H) ⁺	DMSO	(M+Na) ⁺	(M+23)	
267	(M+H) ⁺	tributylphosphate	(M+K) ⁺	(M+39)	
273	M ⁺	monomethoxytrityl cation (MMT)			

Common nanospray background of 50% ACN, 0.1% Formic Acid*



† Derived from rubber tip from disposable syringe plunger

* See Andreas Schlosser and Rudolf Volkmer-Engert "Volatile polydimethylcyclsiloxanes in the ambient laboratory air identified as source of extreme background signals in nano-electrospray mass spectrometry", *J. Mass. Spectrom.* 2003; 38: 523-525 for more information on these common background ions.

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