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Acidic Herbicides in Drinking Water Using Xterra Column

Waters Corporation



This is an Application Brief and does not contain a detailed Experimental section.

Abstract

This application brief demonstrates analysis of acidic herbicides in drinking water.

Introduction

The compounds used in this study are -

1. Picloram
2. Chloramben
3. 4-nitrophenol (non-linear above 500)
4. Bentazon (non-linear above 300)
5. 2, 4-D
6. MCPA
7. 2, 4, 5-TP
8. Dichloroprop
9. MCPP
10. Dichlorobenzoic
11. Acifluorfen (non-linear above 300)
12. 2, 6, 5 -TP
13. 2, 4-DB
14. Dinoseb (non-linear above 200)
15. Pentachlorophenol

Compounds.

Experimental

Conditions

Column:

Xterra MS C_{18} 2.1 x 100 mm, 3.5 μm Part number: 186000404 Mobile phase A: 15 mM NH₄COOH, pH 3.4 Mobile phase B: ACN

Flow rate: 0.2 mL/min to MS Injection volume: 20 μ L

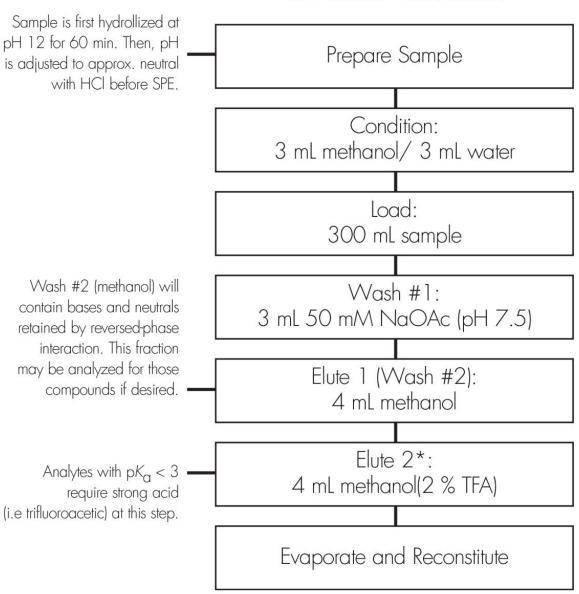
Detection: MS ESI-

Instrument: Alliance 2695, Micromass ZQ

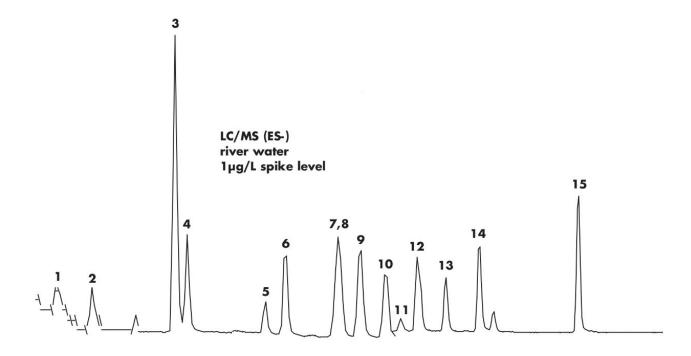
Gradient

Time	Profile	
(min)	%A	%B
0.0	75	25
9.0	40	60
14.0	40	60
30.0	10	90

Oasis® MAX SPE Method for Acidic Herbicides Conditions for Oasis® MAX Cartridge, 6 cc, 150 mg Part Number 186000369



Results and Discussion



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Alliance HPLC System https://www.waters.com/534293

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