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Nota applicativa

Clopyralid and Triclopyr in River Water – LC-MS

Waters Corporation

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

Abstract

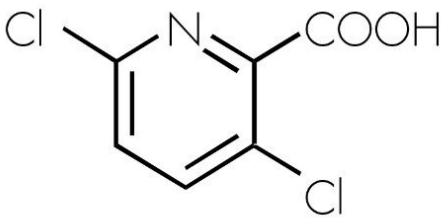
This application brief highlights the analysis of clopyralid and triclopyr in river water using XTerra MS C_{18} columns.

Introduction

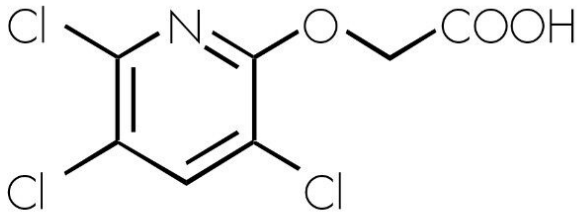
Compounds used in this study includes:

1. Clopyralid

2. Triclopyr



Clopyralid



Triclopyr

Experimental

HPLC Conditions

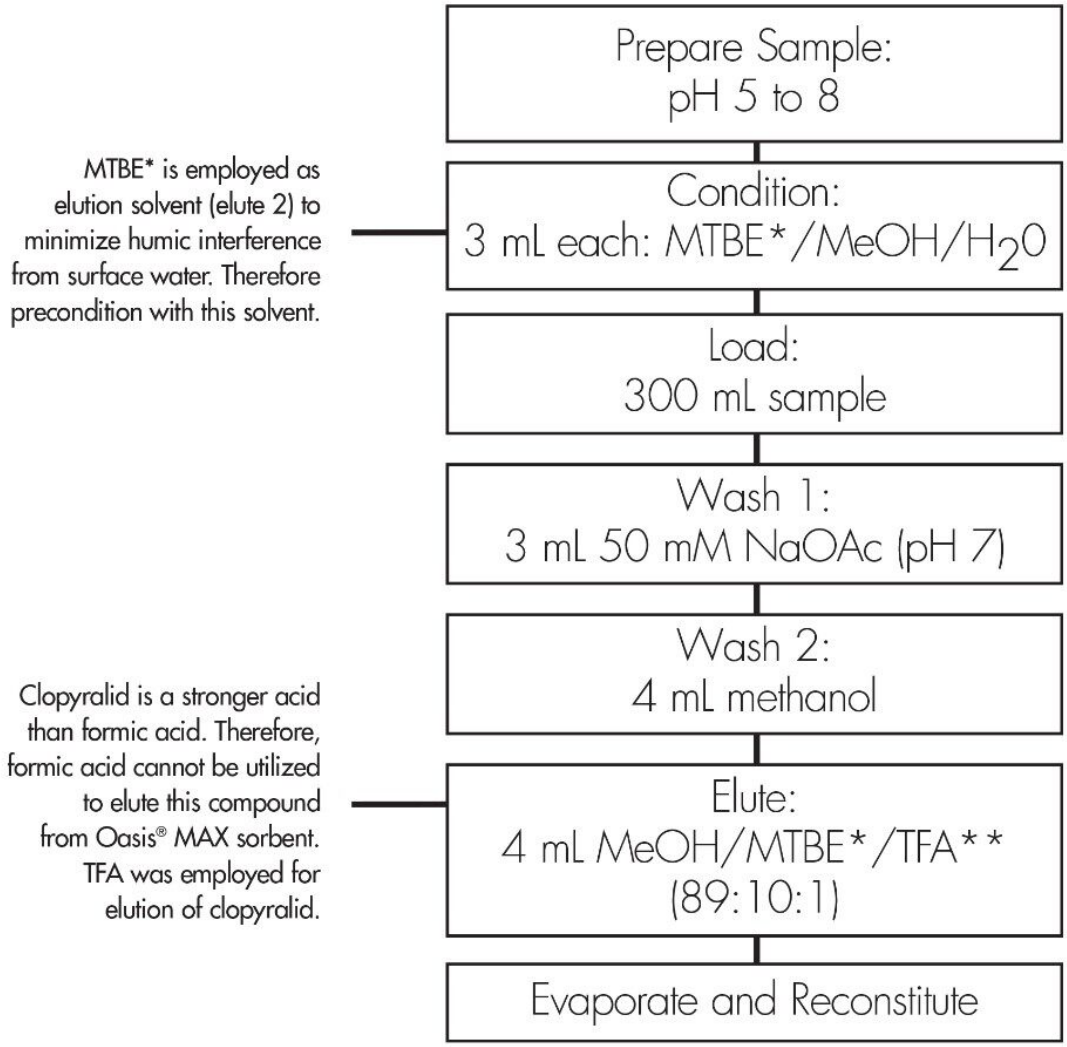
Column:	XTerra MS C_{18} 2.1 x 100 mm, 3.5 µm (p/n: 186000404)
Mobile phase A:	10 mM TFA, pH 2.1
Mobile phase B:	ACN

Flow rate:	0.2 mL/min
Injection volume:	20 µL
Detection:	MS ESI+ Multiple Selected-Ion Recording (SIR)
Instrument:	Alliance 2695, Micromass ZQ

Gradient

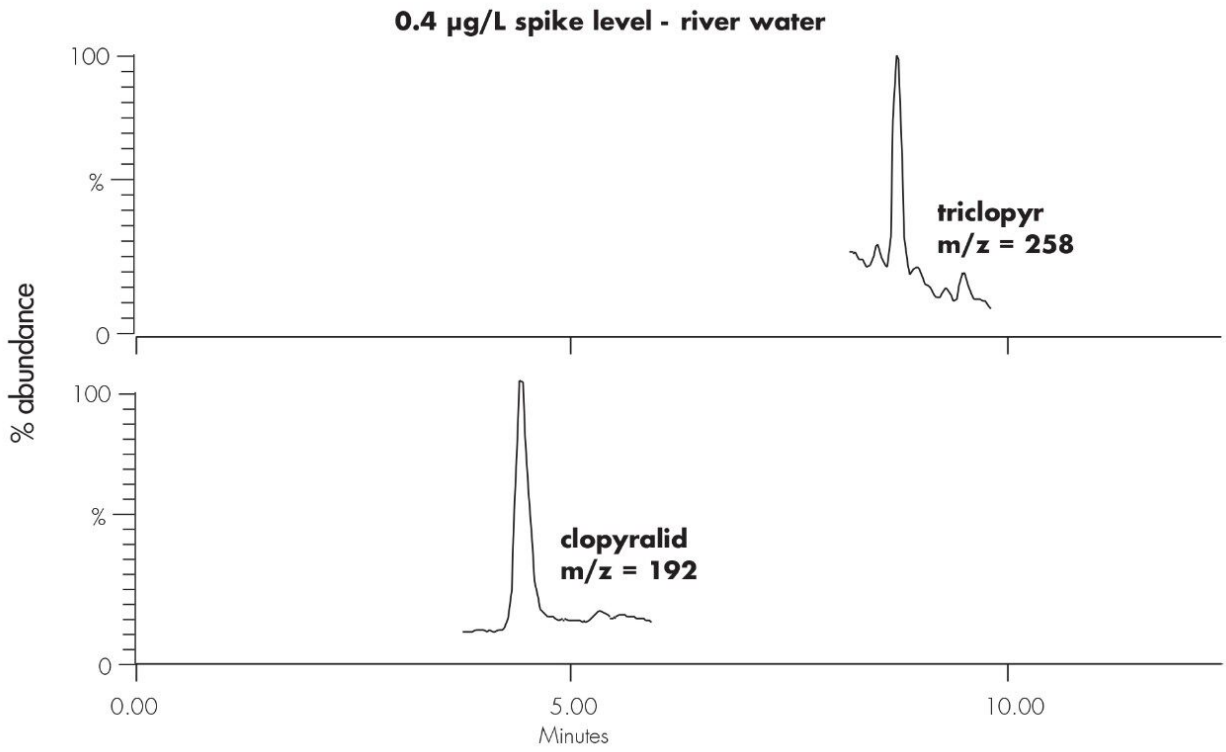
Time (min)	Profile	
	%A	%B
0.0	75	25
6.0	10	90

Optimized Oasis® MAX method
for clopyralid and triclopyr
Conditions for Oasis® MAX Cartridge, 6 cc, 500 mg
Part Number 186000865



* methyl *t*-butyl ether
diethyl ether can be used as an alternative to MTBE
** TFA - trifluoroacetic acid

Results and Discussion



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Alliance HPLC <https://www.waters.com/514248>

WA20738.027, June 2002

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