

Note d'application

Naphthoic Acids in Groundwater

Waters Corporation



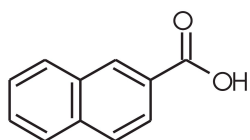
This is an Application Brief and does not contain a detailed Experimental section.

Abstract

This application brief highlights the analysis of naphthoic acids in groundwater using Oasis MAX separation method.

Introduction

Naphthoic acids and naphthalenes in contaminated groundwater is determined in this application brief.



2-NAPHTHOIC ACID

Experimental

LC Conditions

Column:	XTerra MS C ₁₈ , 2.1 x 100 mm
Mobile phase A:	15 mM Ammonium formate
Mobile phase B:	ACN
Flow rate:	200 µL/min
Injection volume:	20 µL
Instrument:	Alliance 2695 Separations Module

Gradient

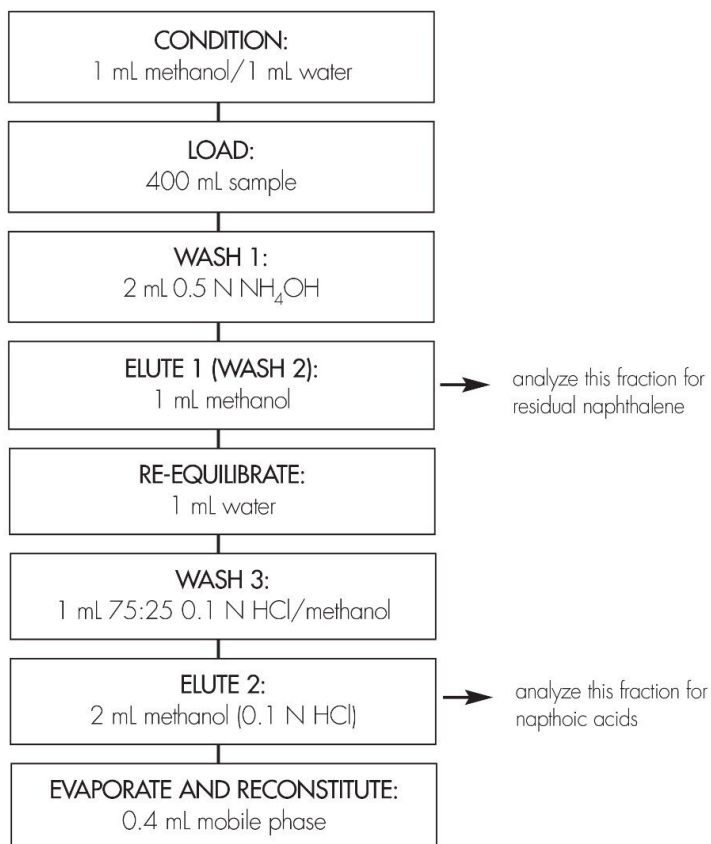
Time (min)	Profile	
	%A	%B
0	75	0
9	40	60
14	40	60
16	10	90

MS Conditions

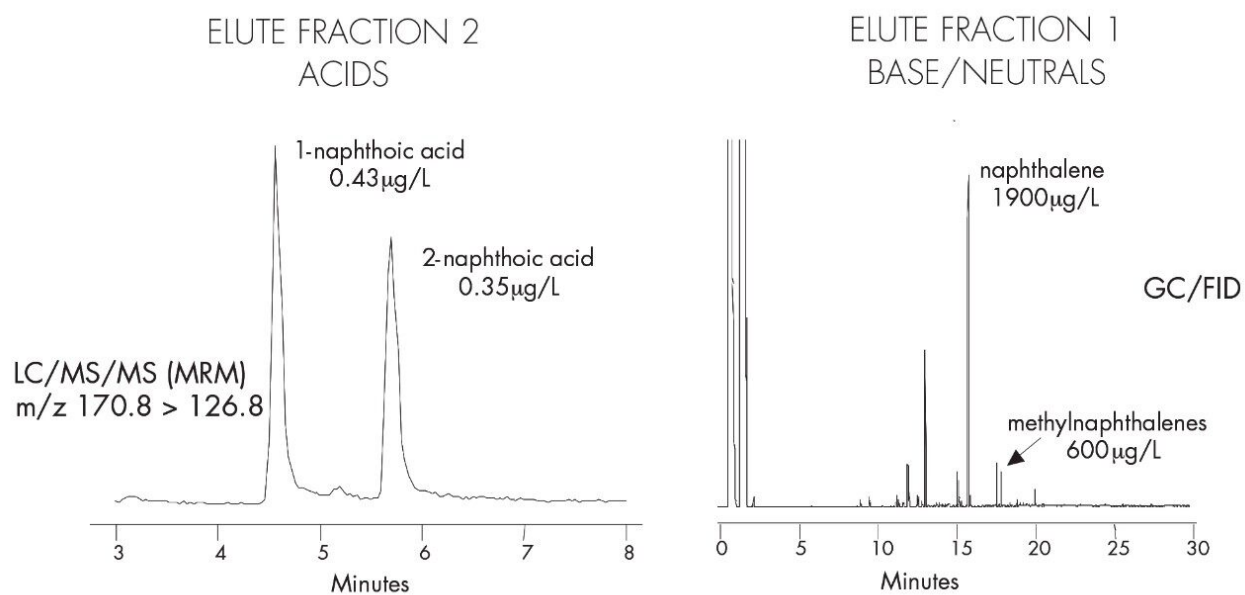
Instrument:	Quattro Ultima
Ion source:	Negative Electrospray
Mode:	Multiple Reaction Monitoring (MRM)
Source temp.:	150 °C
Desolvation temp.:	450 °C
Cone gas:	50 L/Hr
Dosolvation gas:	500 L/Hr
Collision gas:	Argon

OASIS® MAX EXTRACTION METHOD

Oasis® MAX Extraction Cartridge, 6 cc/150 mg, 30µm
Part Number: 196000369



Results and Discussion



Matrix Spike Recoveries (from site water blank)

1- naphthoic acid: 69% (spike level 0.5 µg/L)

2- naphthoic acid: 75% (spike level 0.5 µg/L)

Naphthalene: 85% (spike level 100 µg/L)

Featured Products

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

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