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A High Resolution Spectral Atlas of the Solar Irradiance From 380 to 700 Nanometers

Volume II: Graphical Form

JACQUES M. BECKERS
CHARLES A. BRIDGES
LOU B. GILLIAM

16 June 1976

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SACRAMENTO PEAK OBSERVATORY PROJECT 7649
AIR FORCE GEOPHYSICS LABORATORY
HANSCOM AFB, MASSACHUSETTS 01731

AIR FORCE SYSTEMS COMMAND, USAF

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This technical report has been reviewed and is approved for publication.

FOR THE COMMANDER:

John Howard

Chief Scientist

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19. KEY WORDS (Continue on reverse side if necessary and identify by block number)

Solar irradiance
Solar spectrum

20. ABSTRACT (Continue on reverse side if necessary and identify by block number)

This report presents in graphical form the spectrum of the solar irradiance with high spectral resolution.

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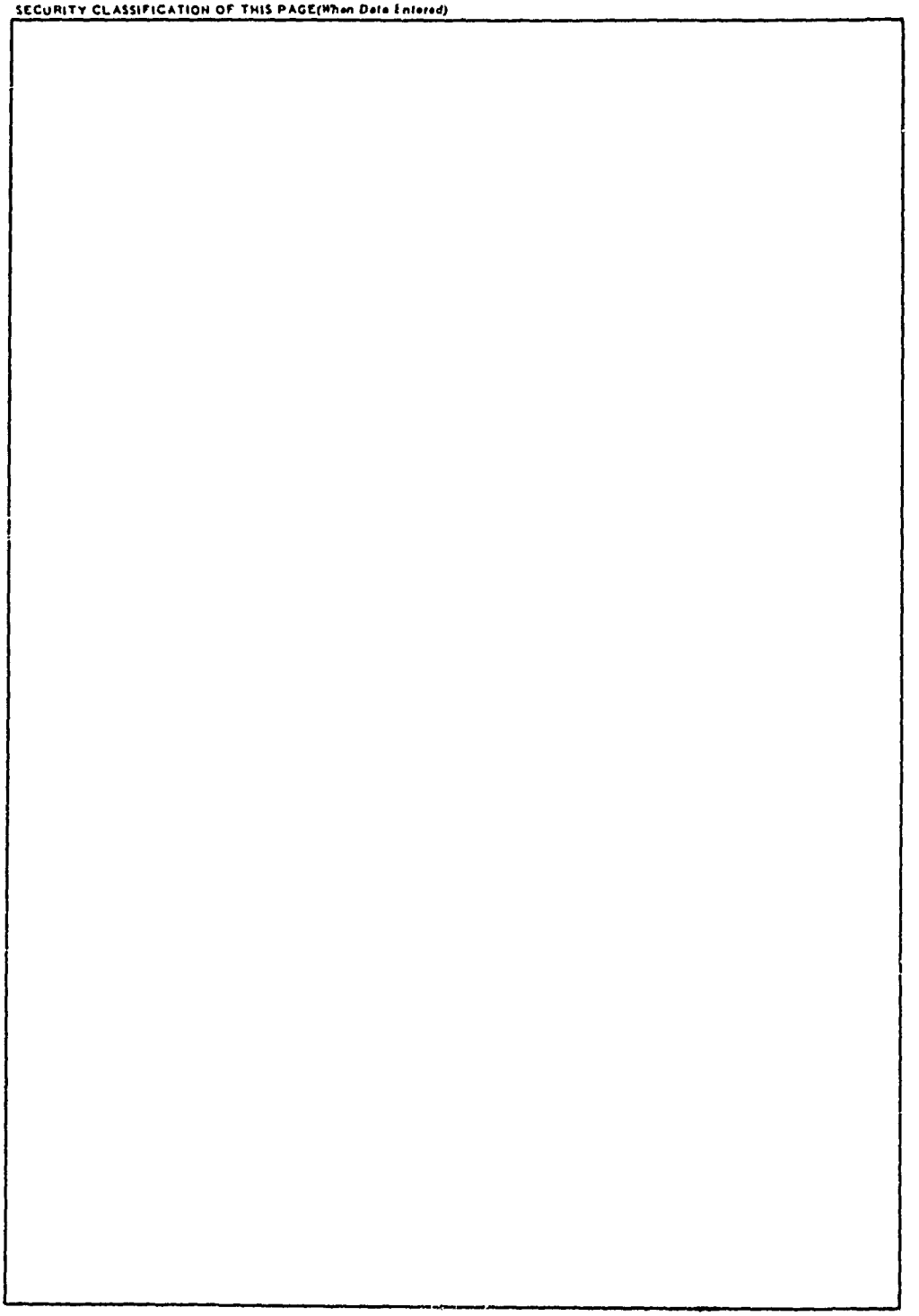

Preface

We acknowledge gratefully the help of Richard Faller and Donald Woodman in the preparation of the graphs on the following pages.

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A High Resolution Spectral Atlas of the Solar Irradiance From 380 to 700 Nanometers Volume II: Graphical Form

1. INTRODUCTION

The data described in Volume 1 are reproduced here in graphical form. Each scan shows 1.0 nm extended on both ends by 0.1 nm to provide continuity. Above each scan the atomic origin of the strongest identified lines are indicated as listed by Moore et al.[1] Also shown is the multiplet number or band designation. A magnetic tape listing of Moore et al[1] tables was kindly provided by Dr. Breckenridge from the Kitt Peak National Observatory.

1. Moore, C.E., Minnaert, M.G.J. and Houtgast, J. The Solar Spectrum 2935 Å to 8770 Å.

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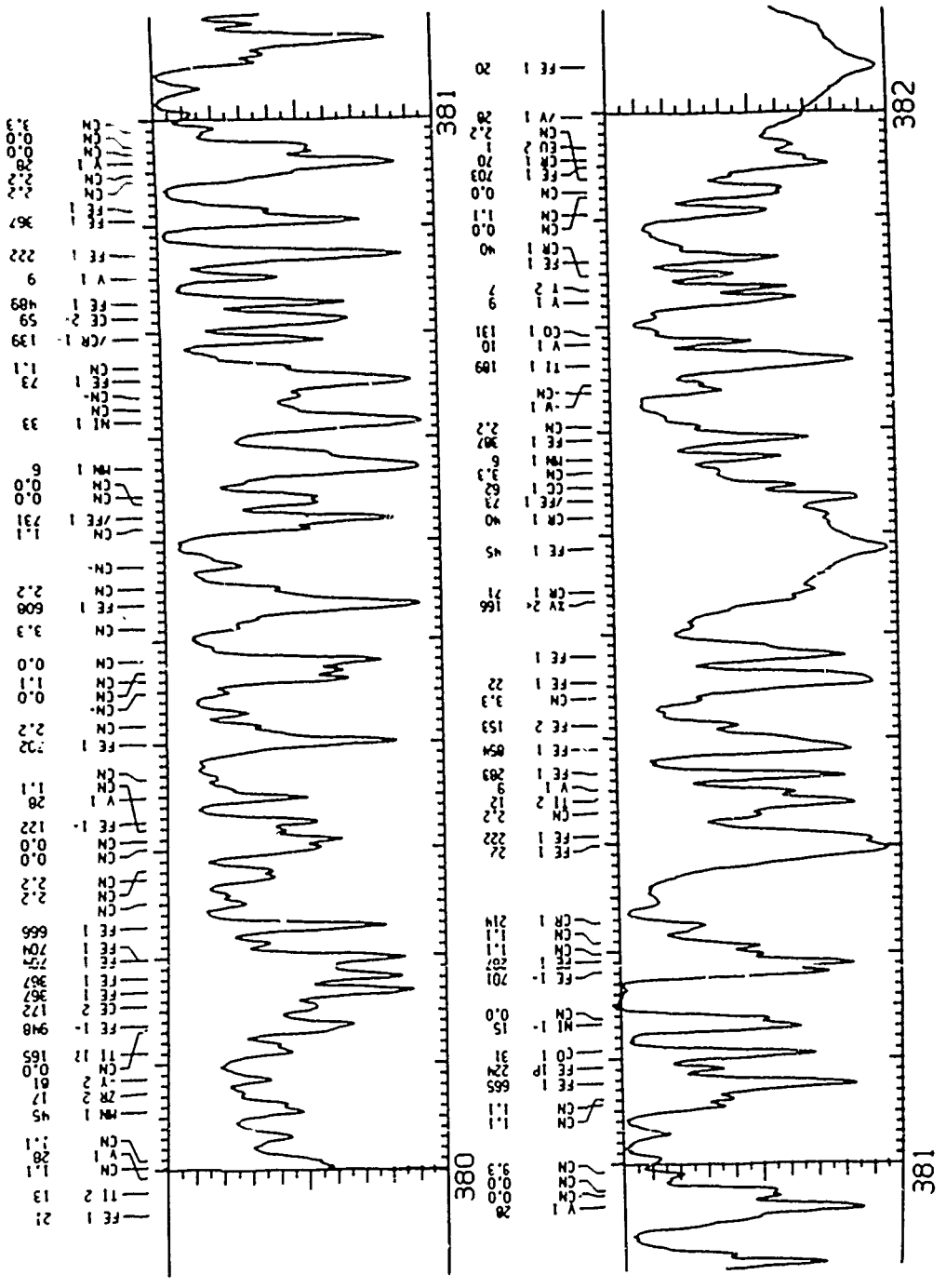
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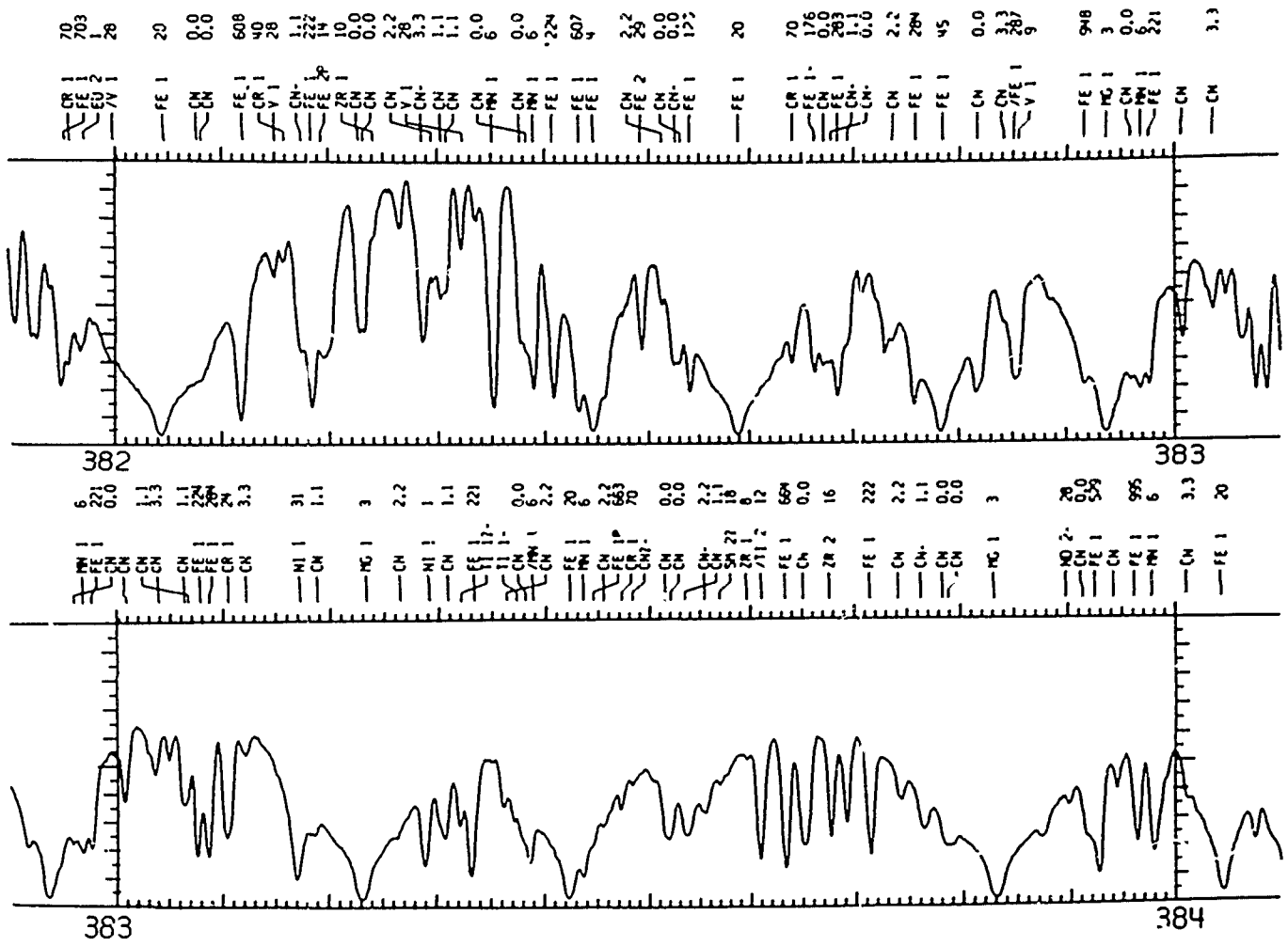
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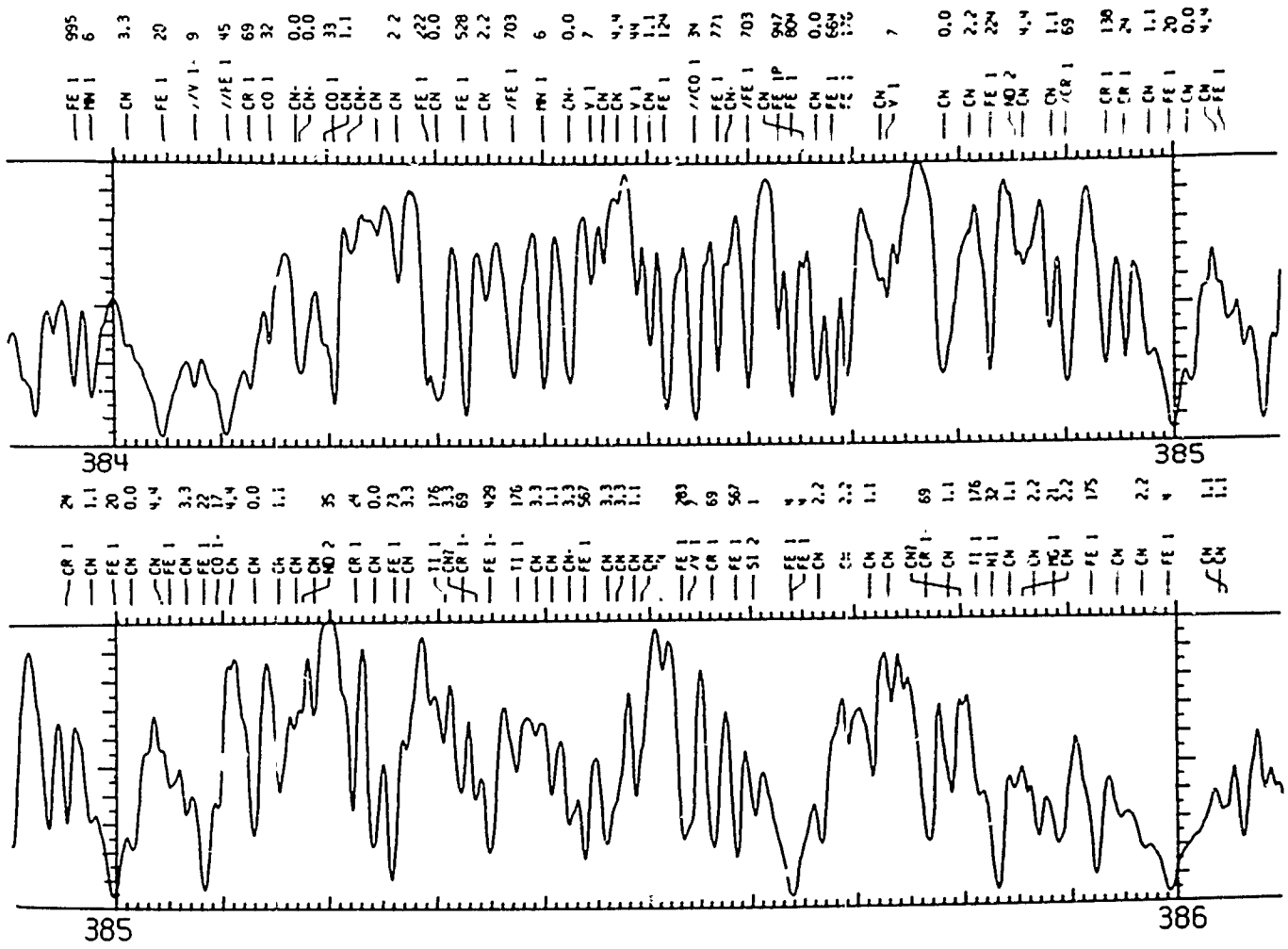
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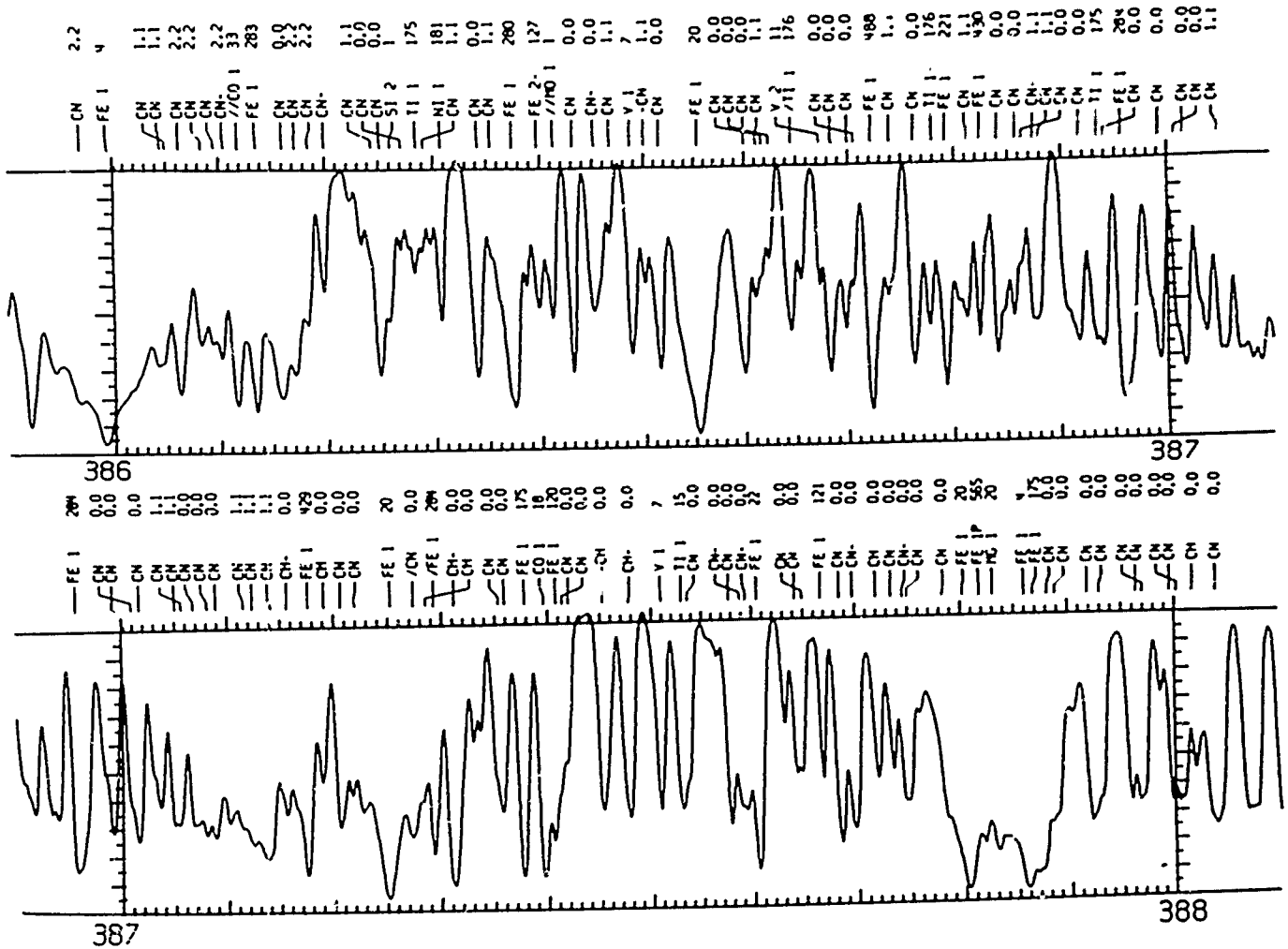
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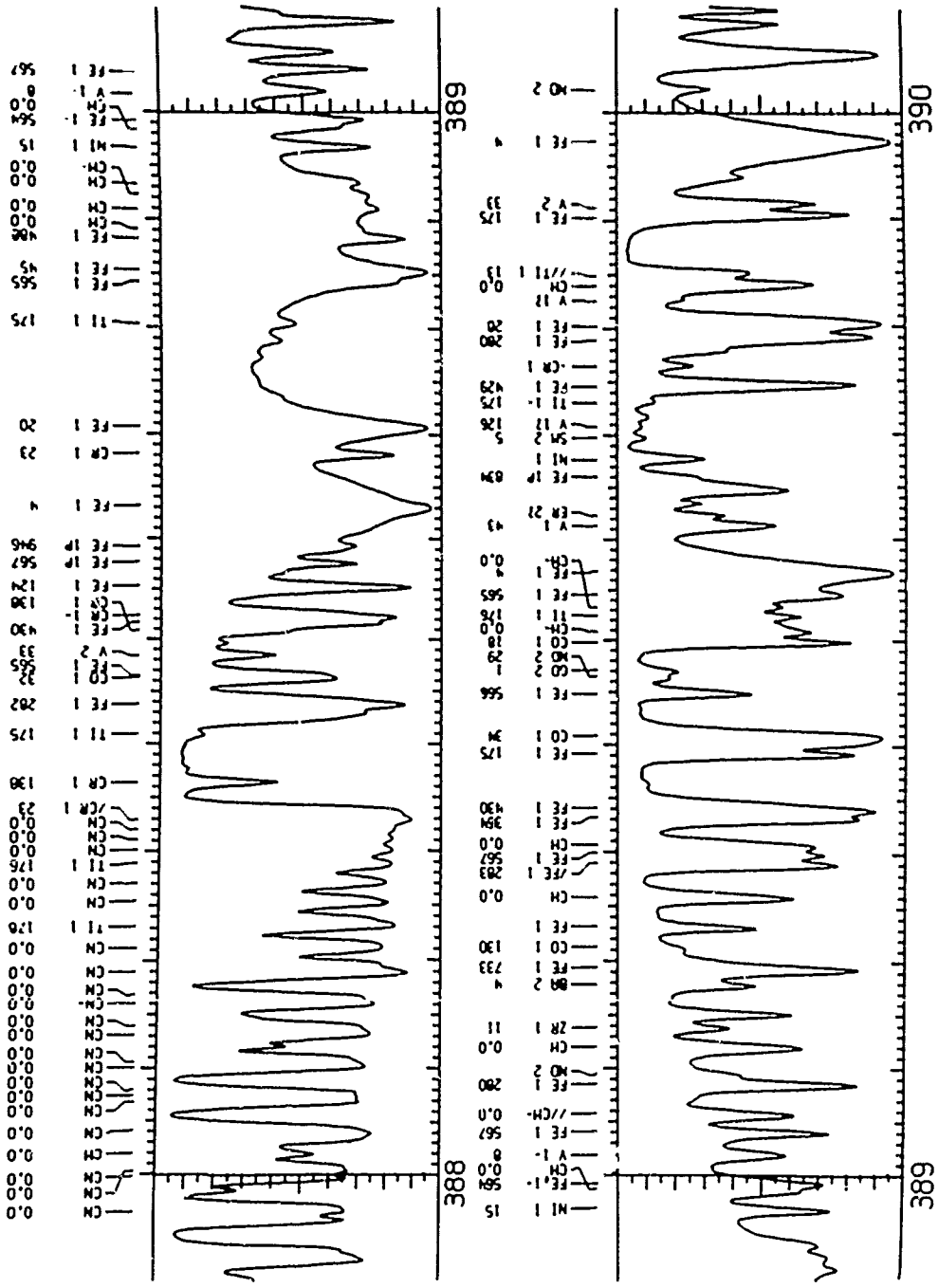
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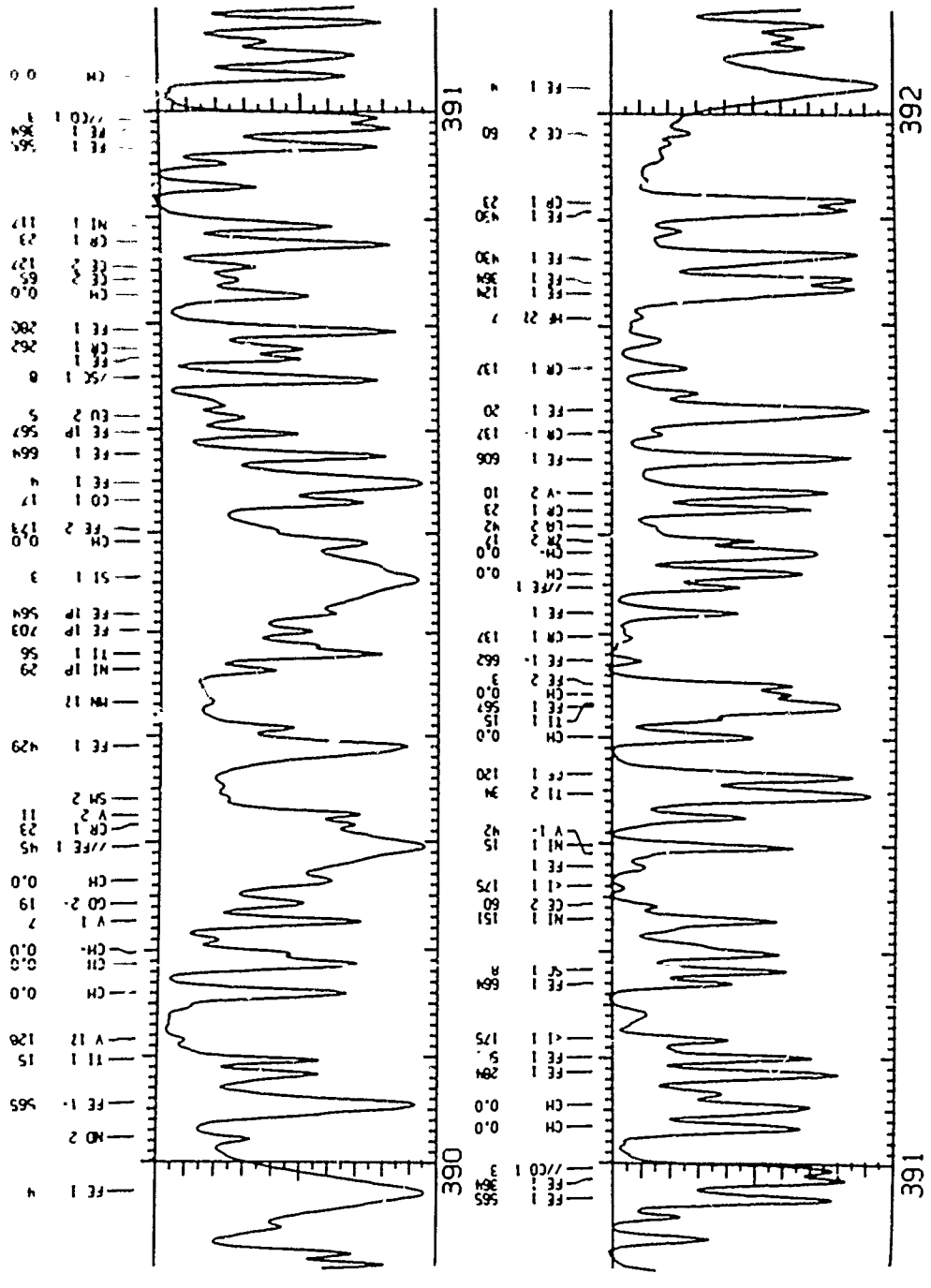
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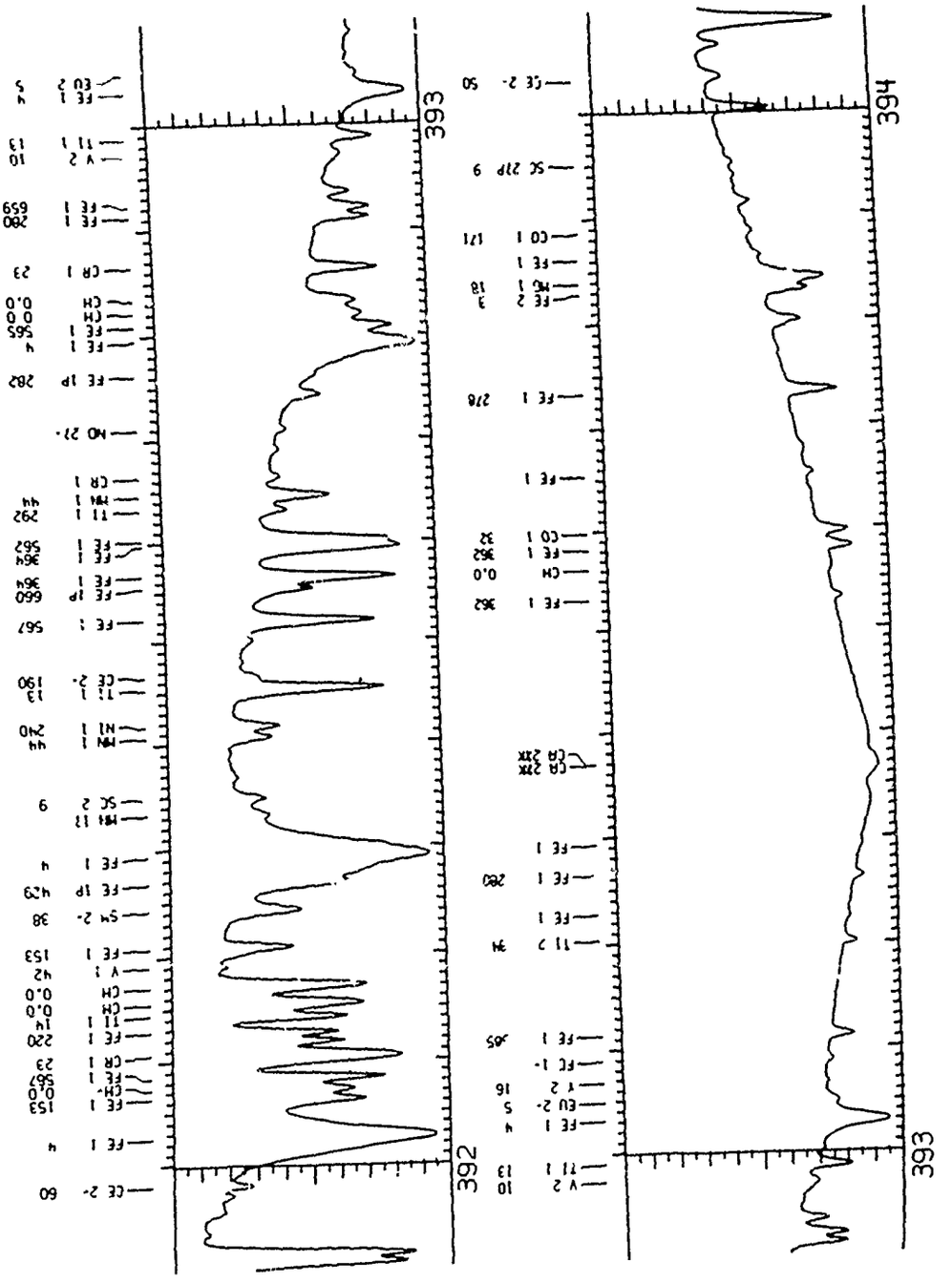
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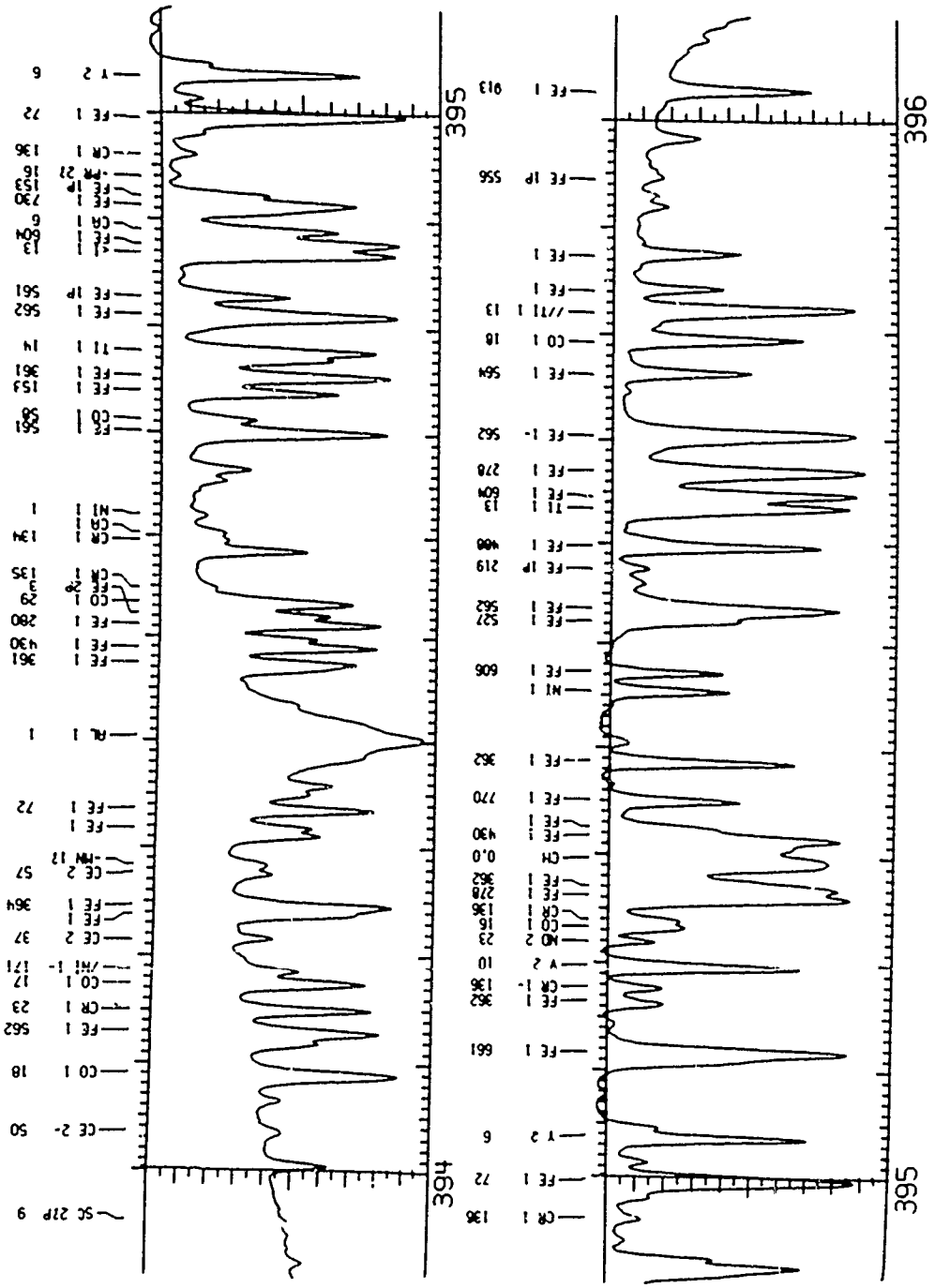
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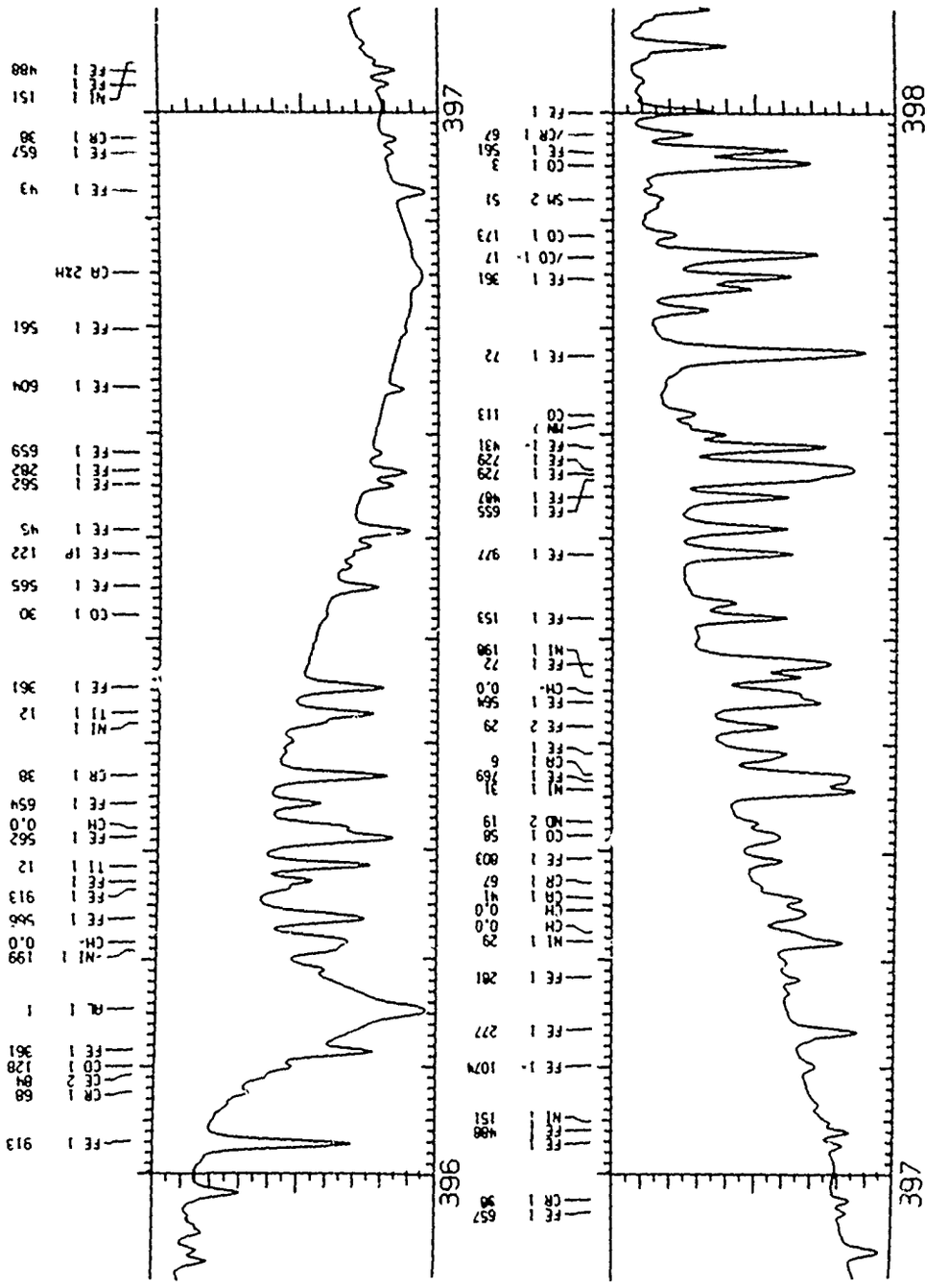
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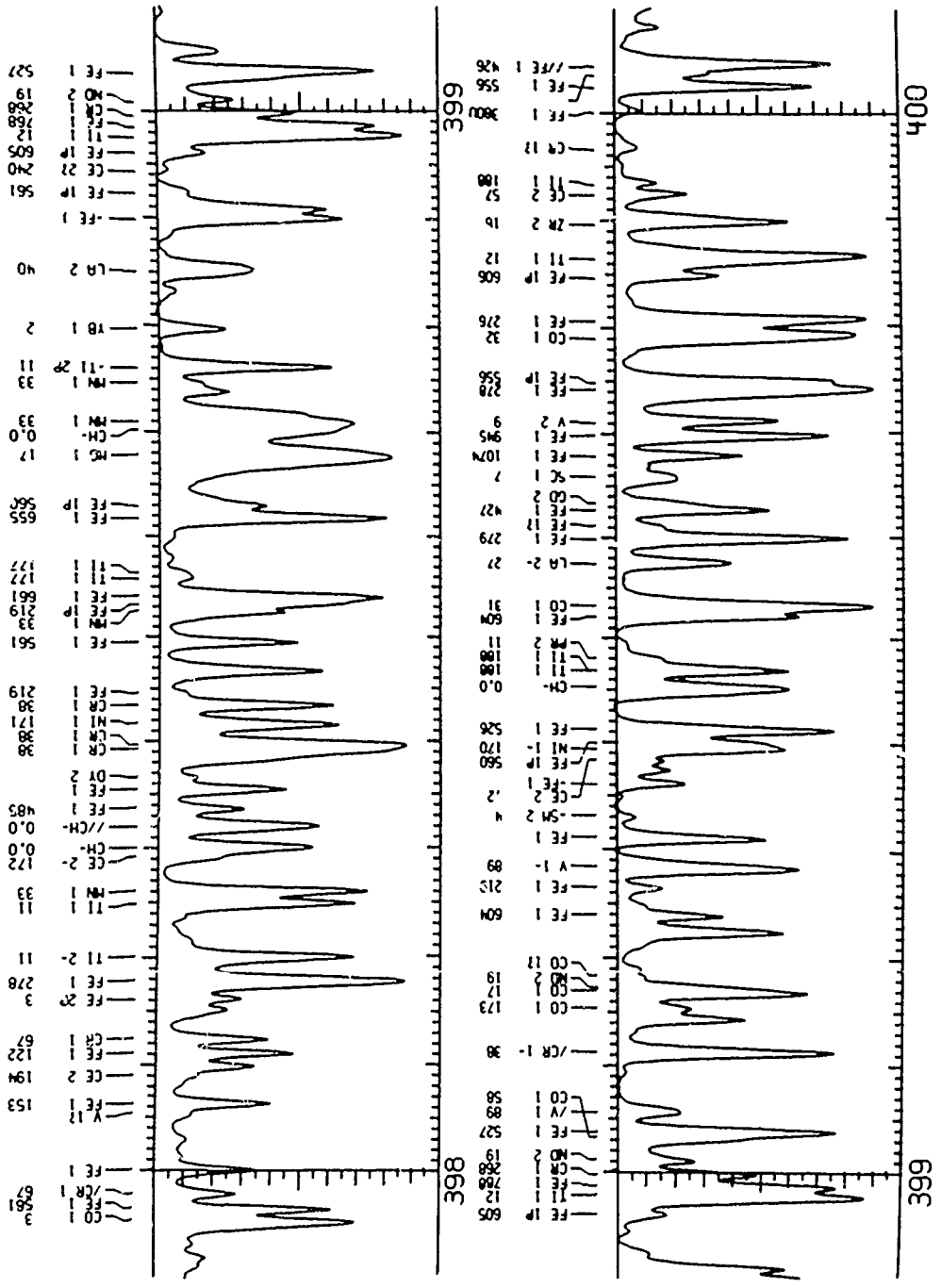
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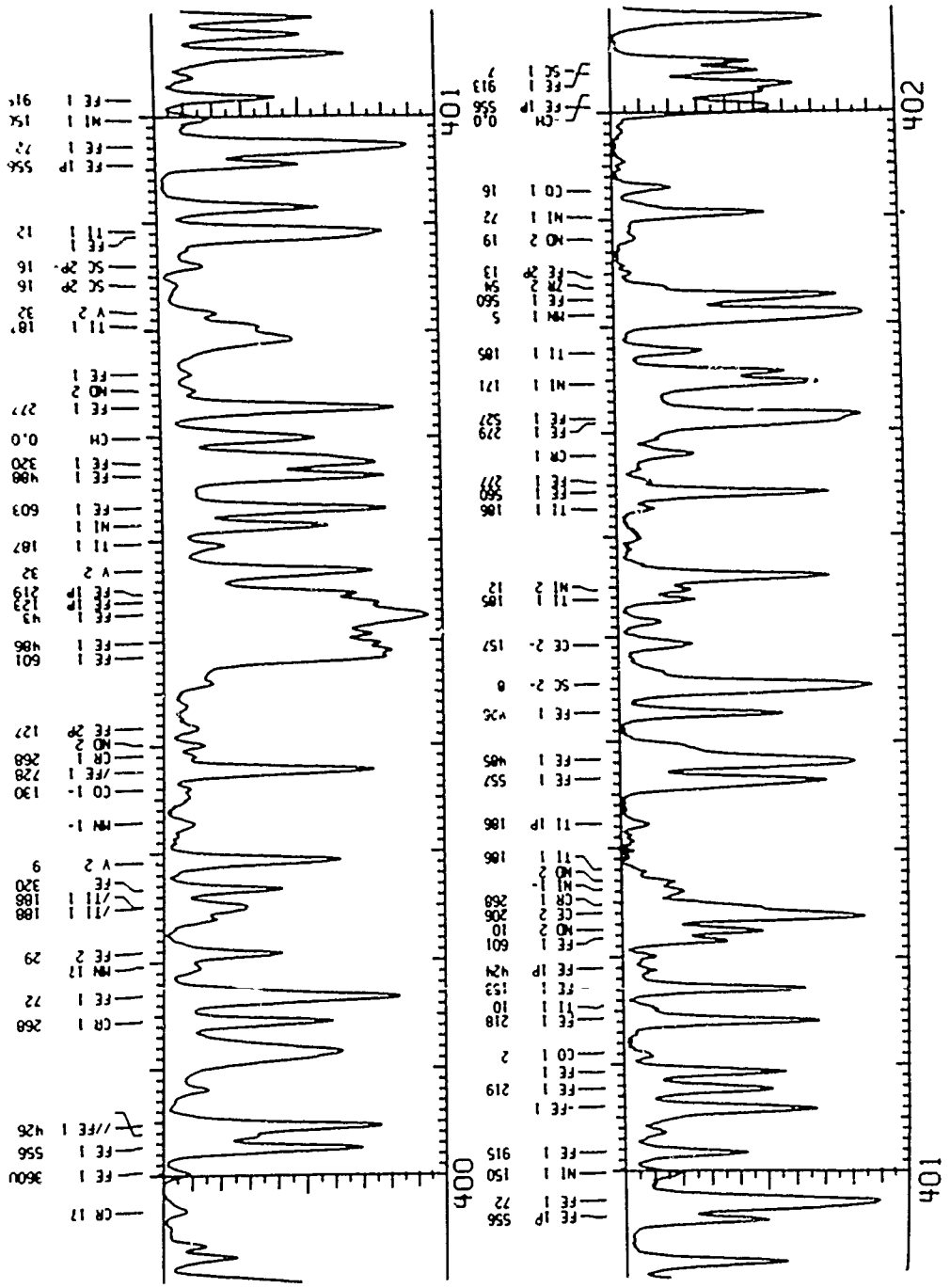
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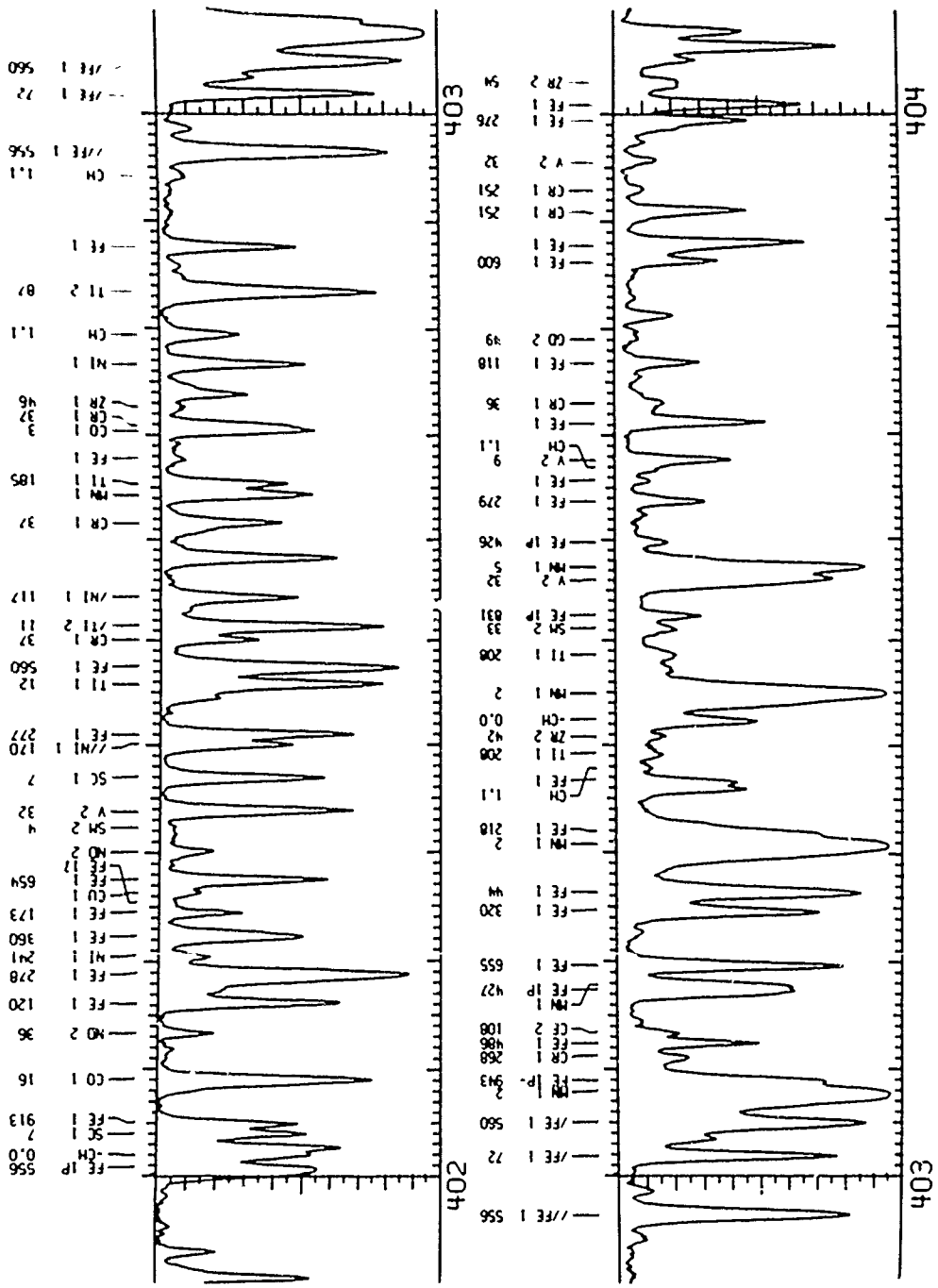
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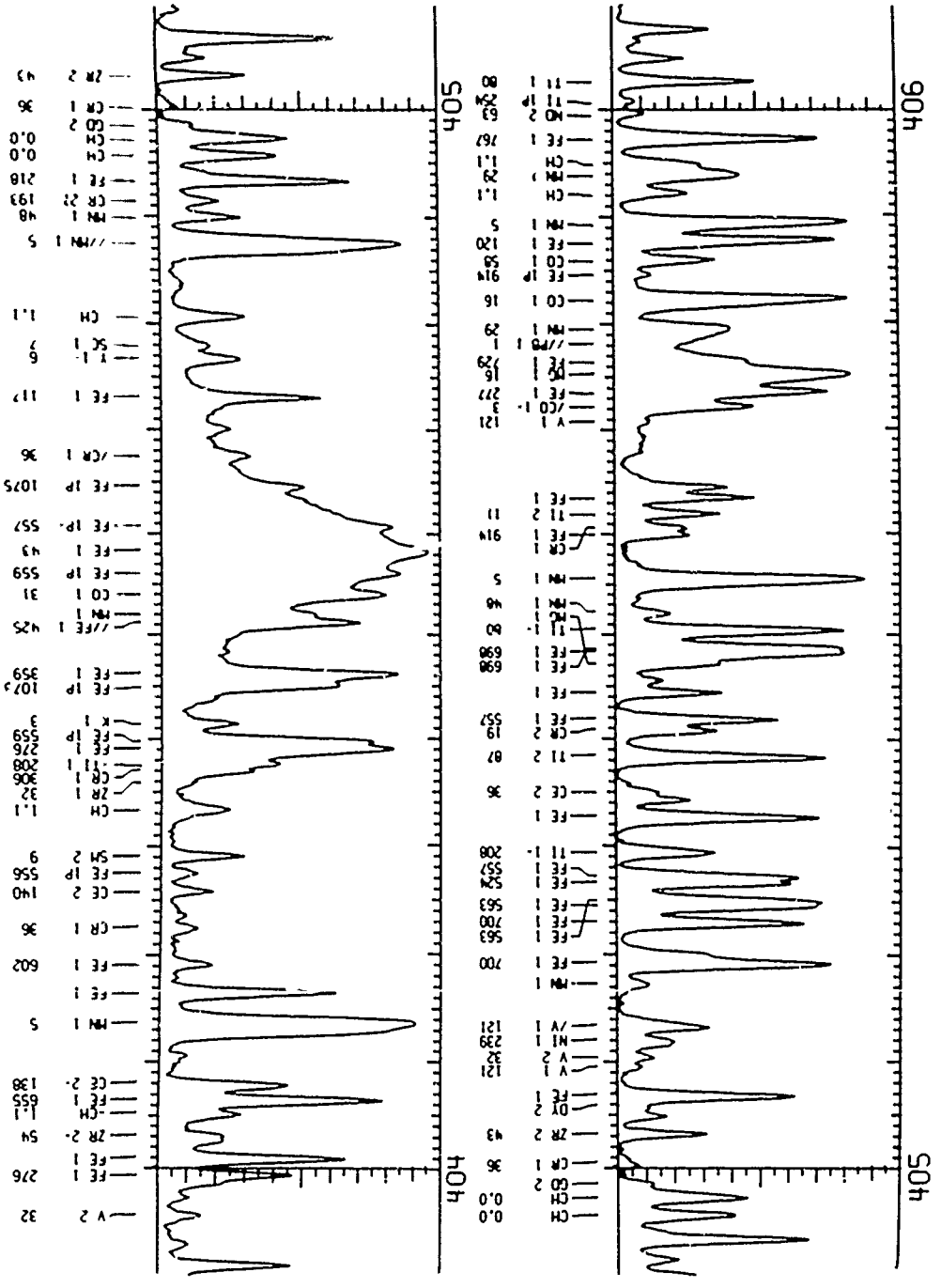
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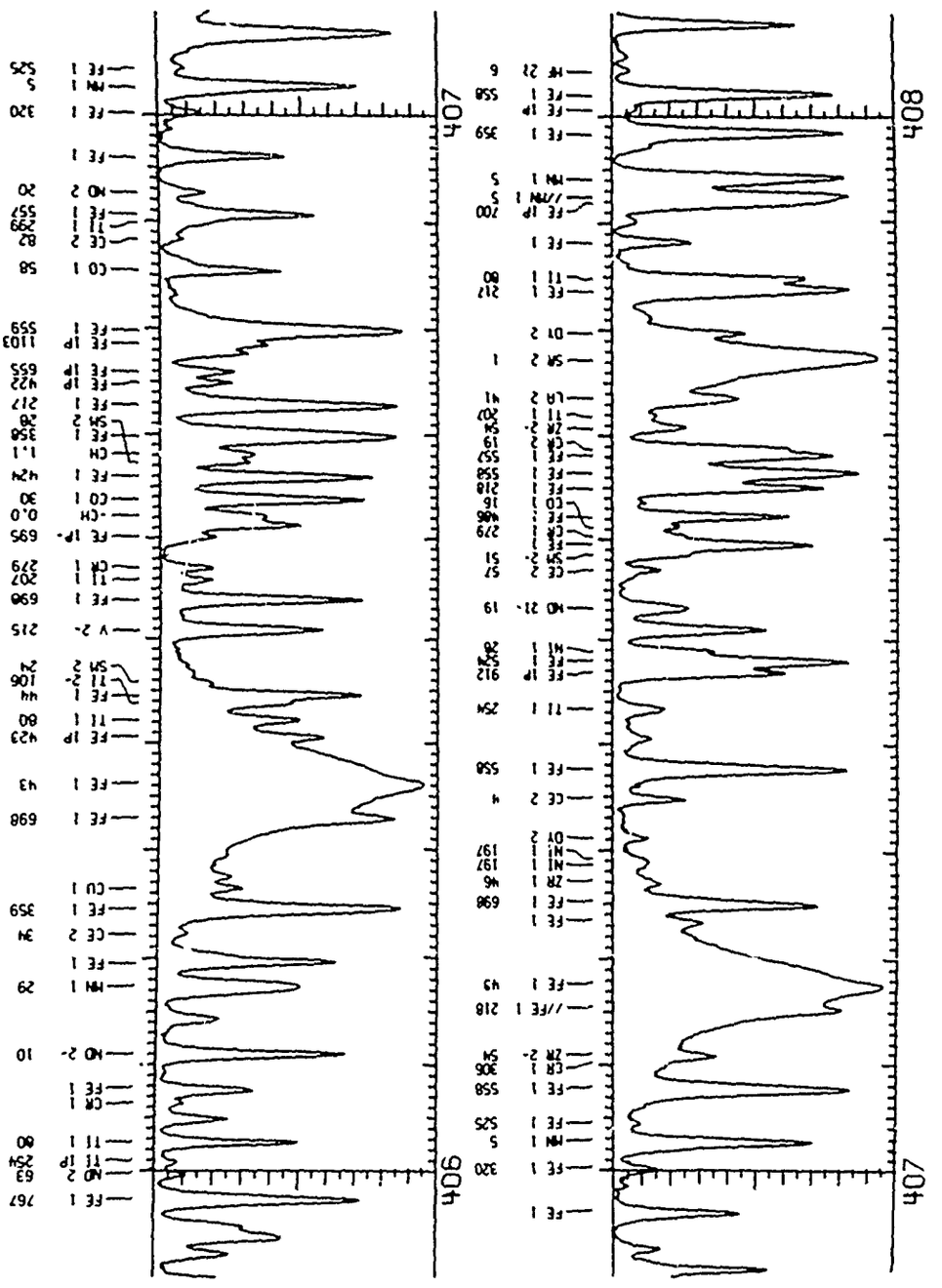
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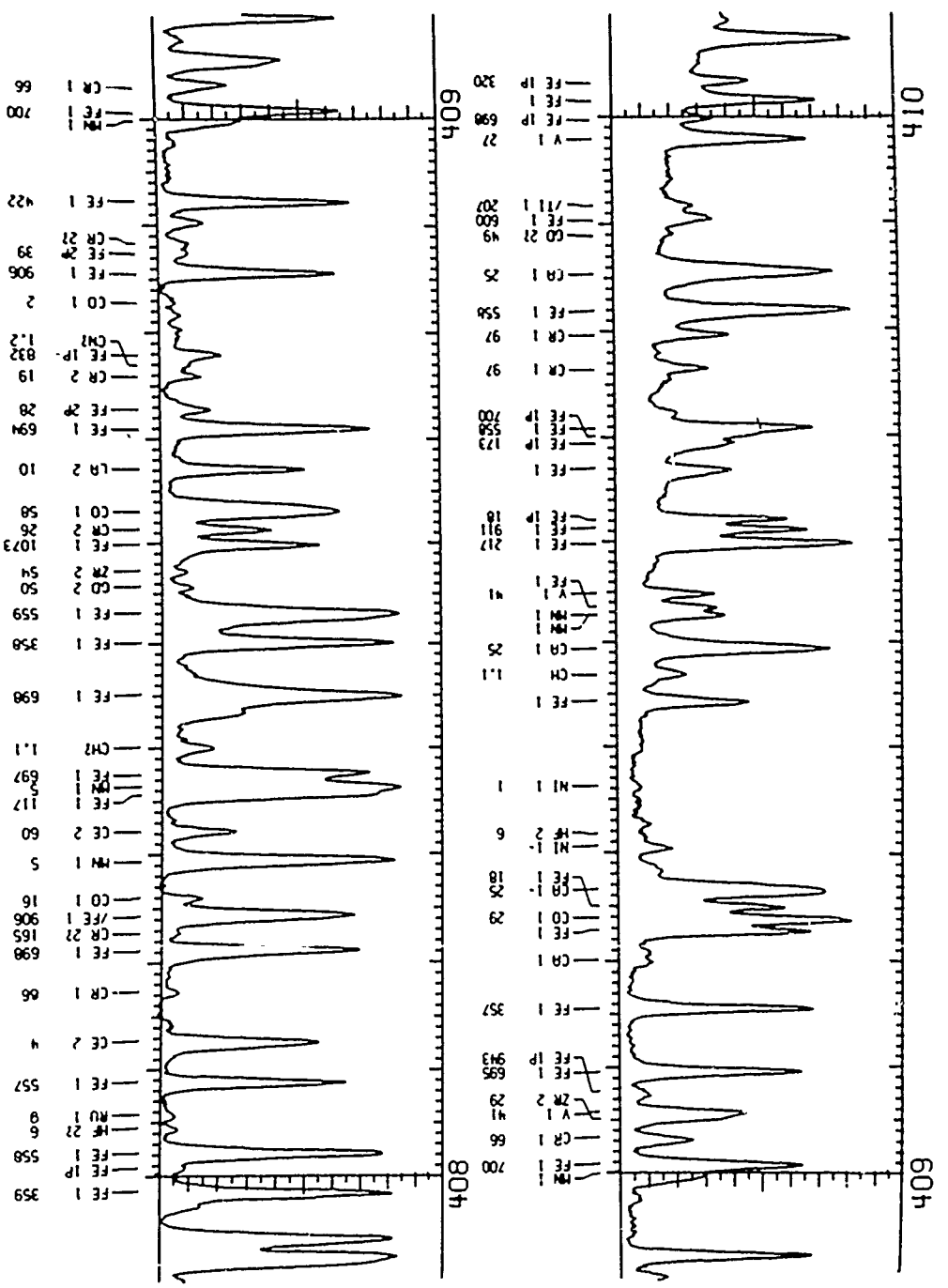
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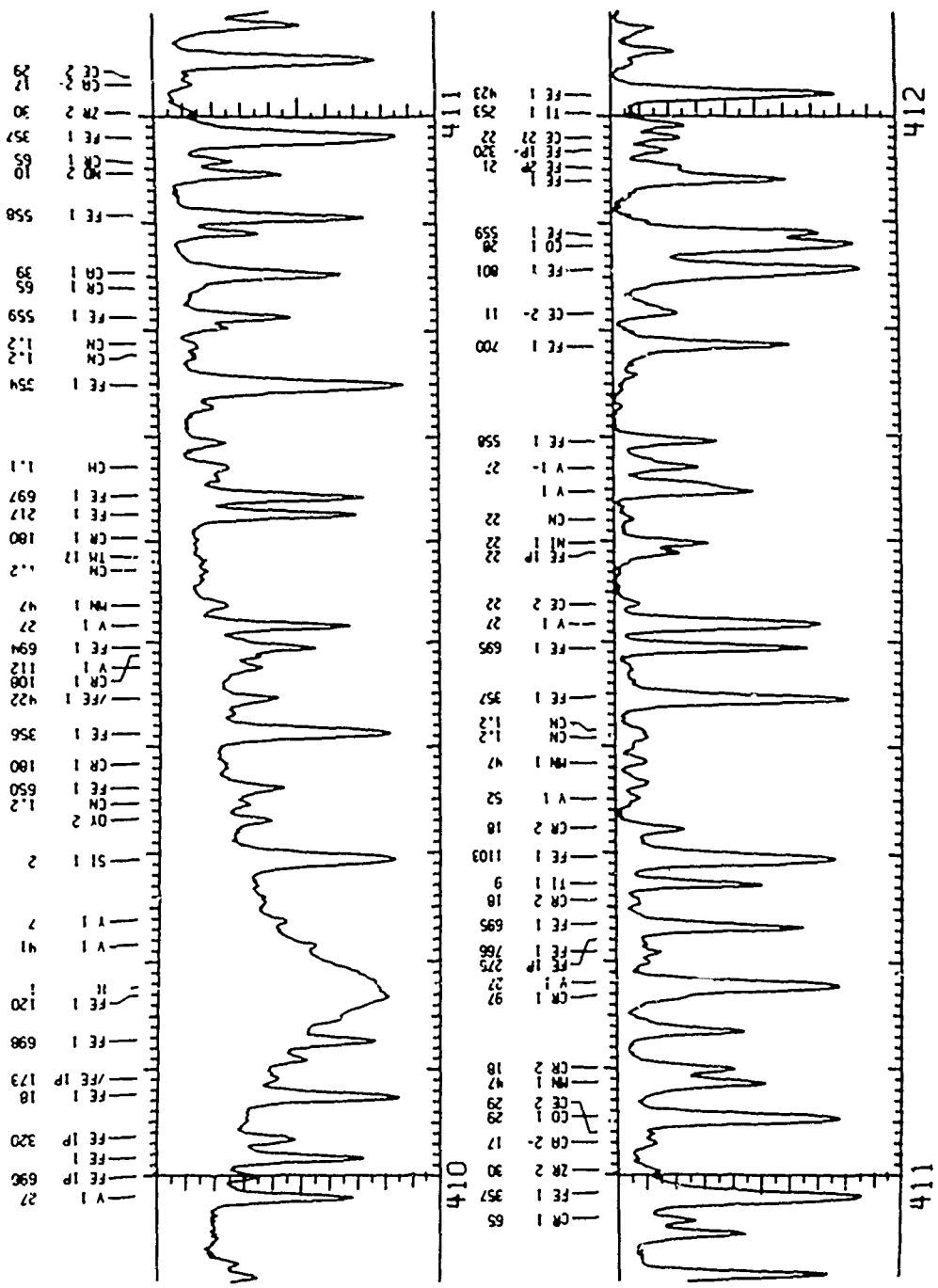
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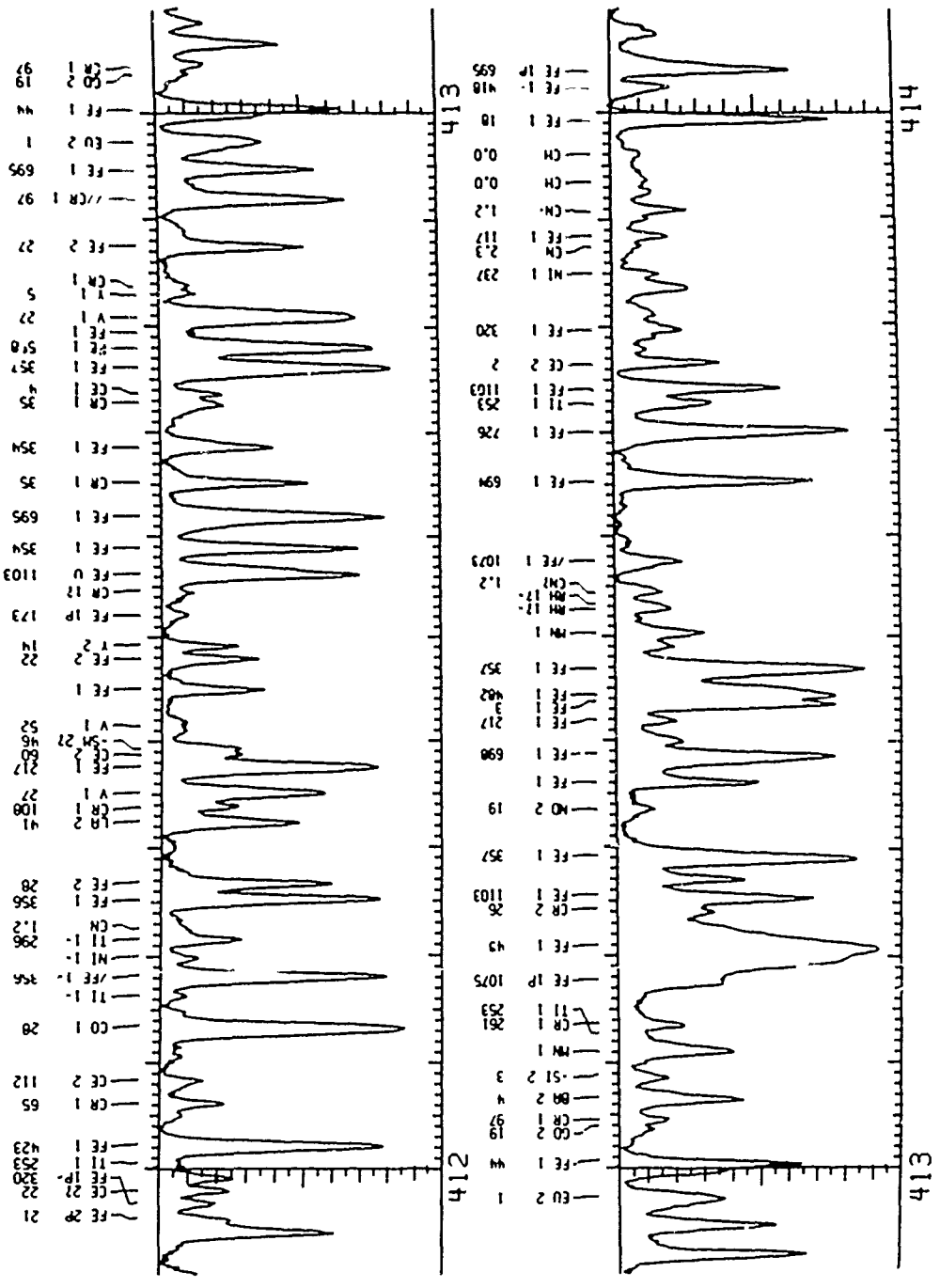
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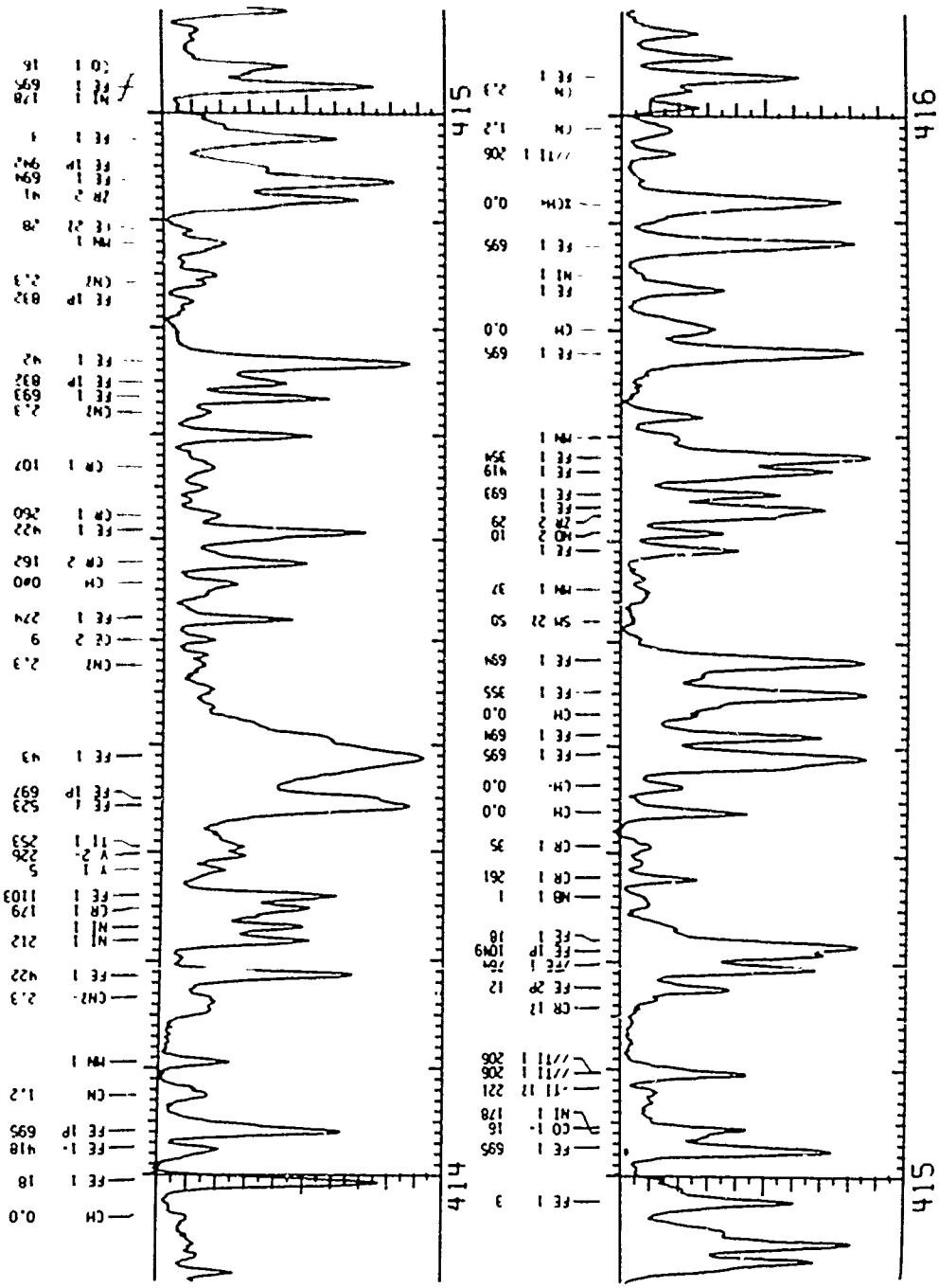
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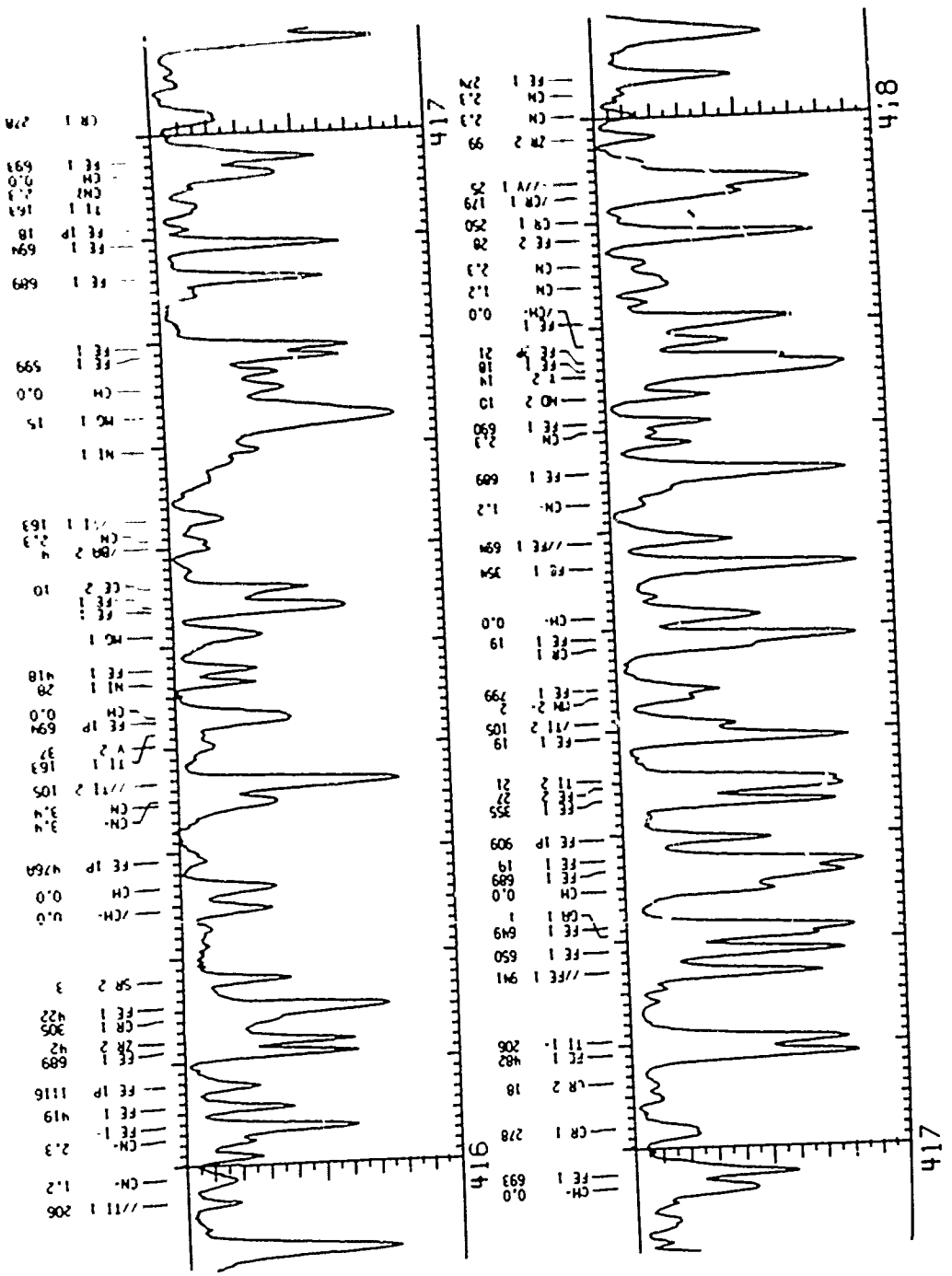
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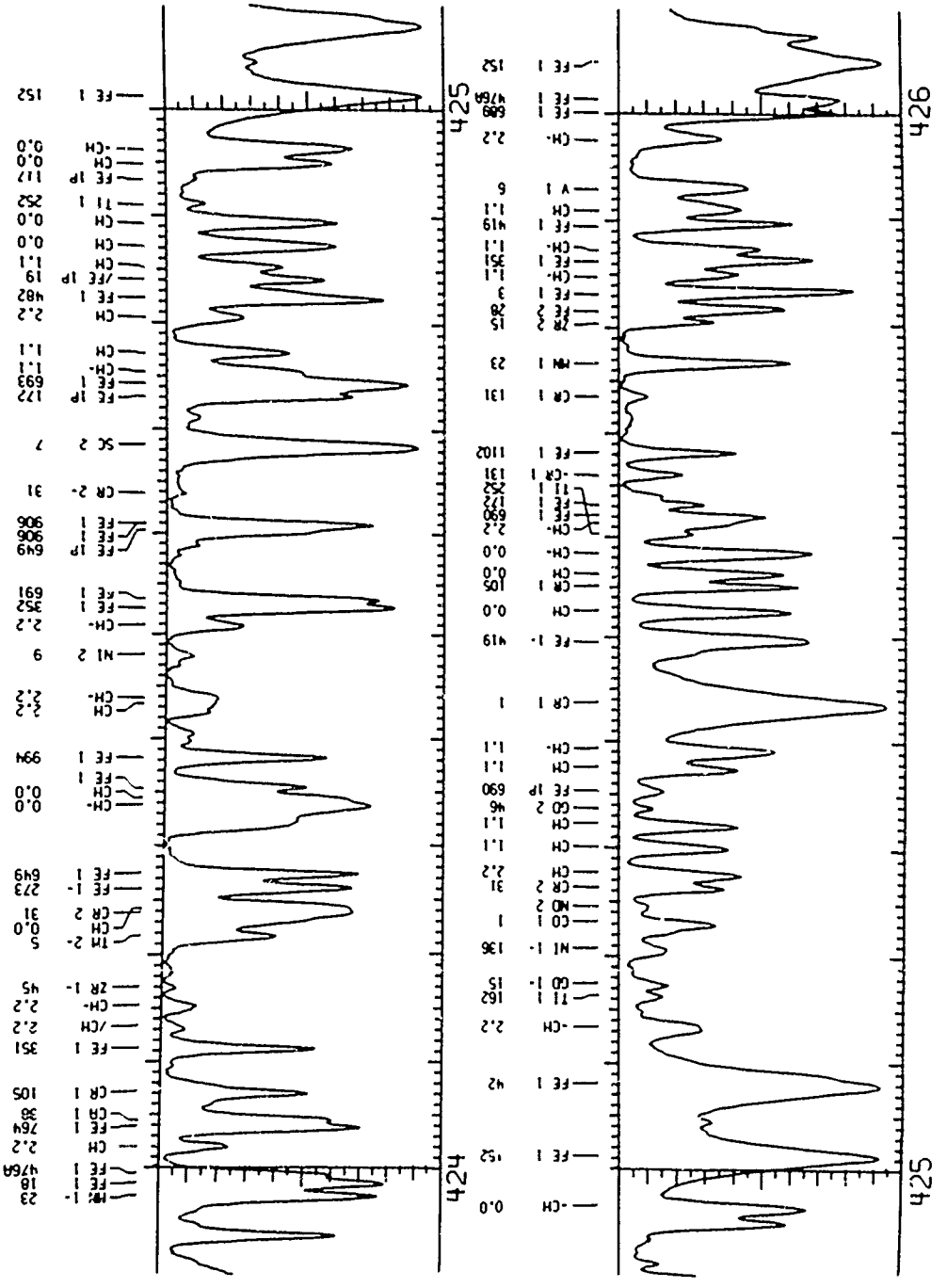
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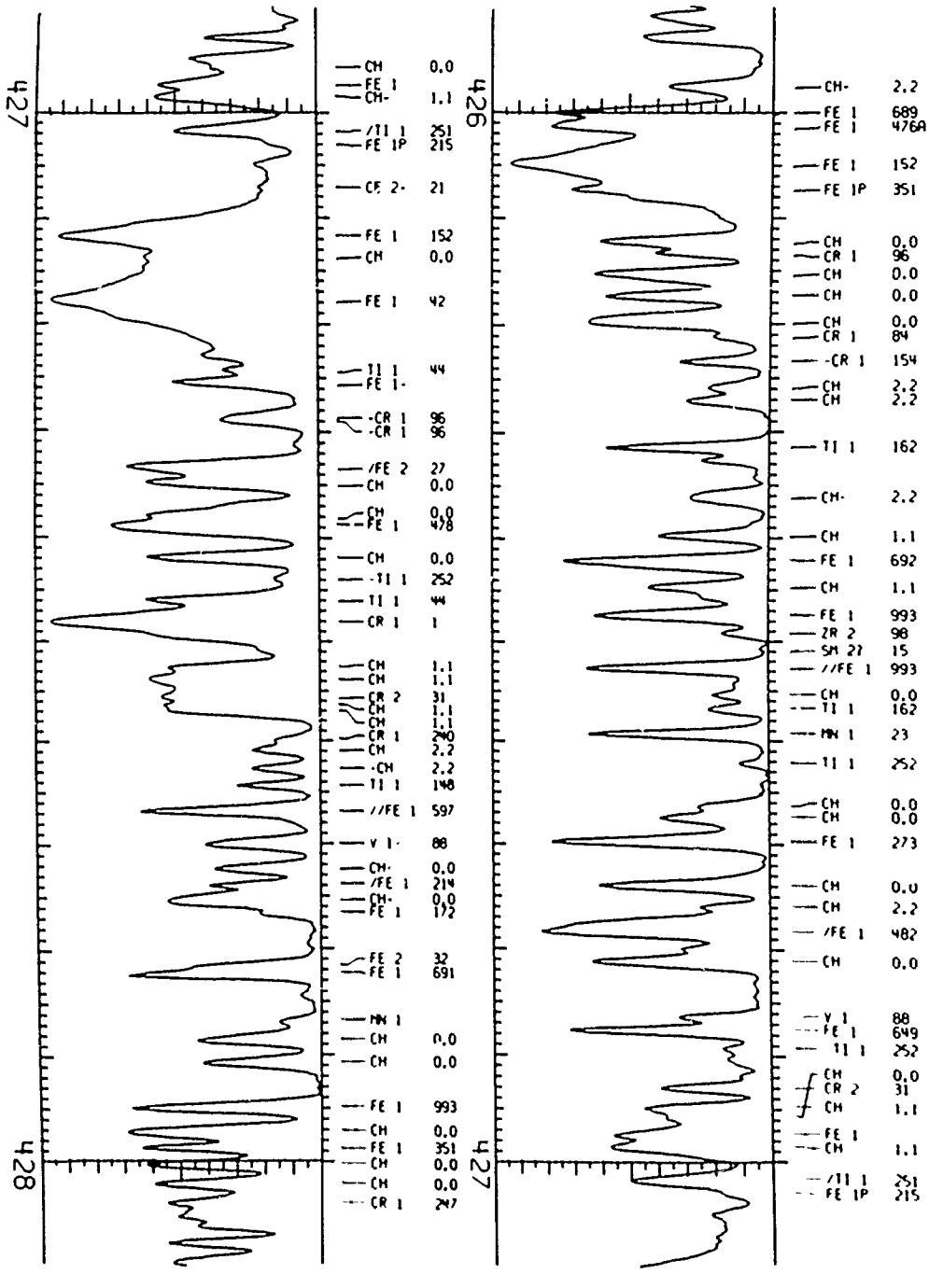
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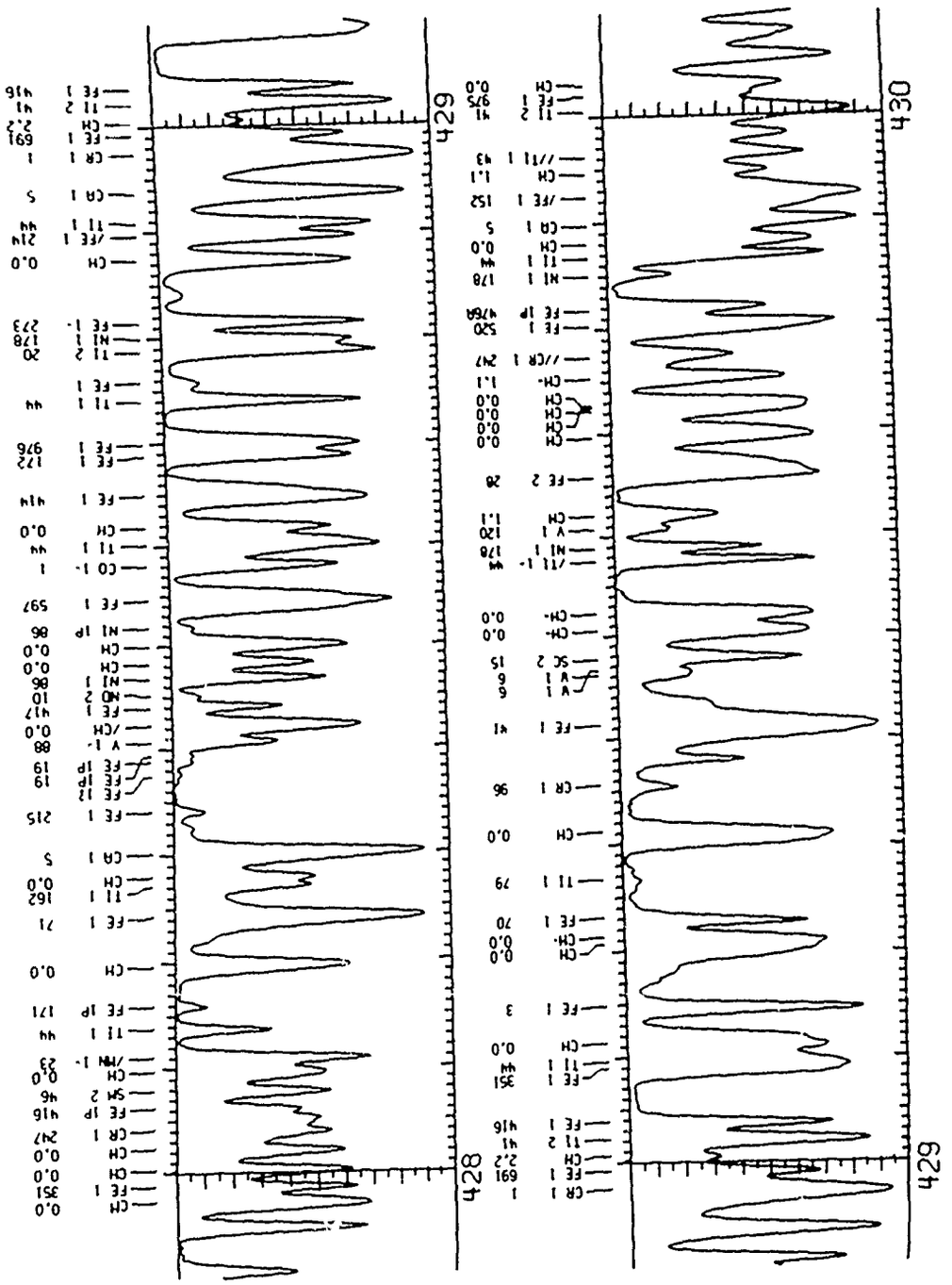
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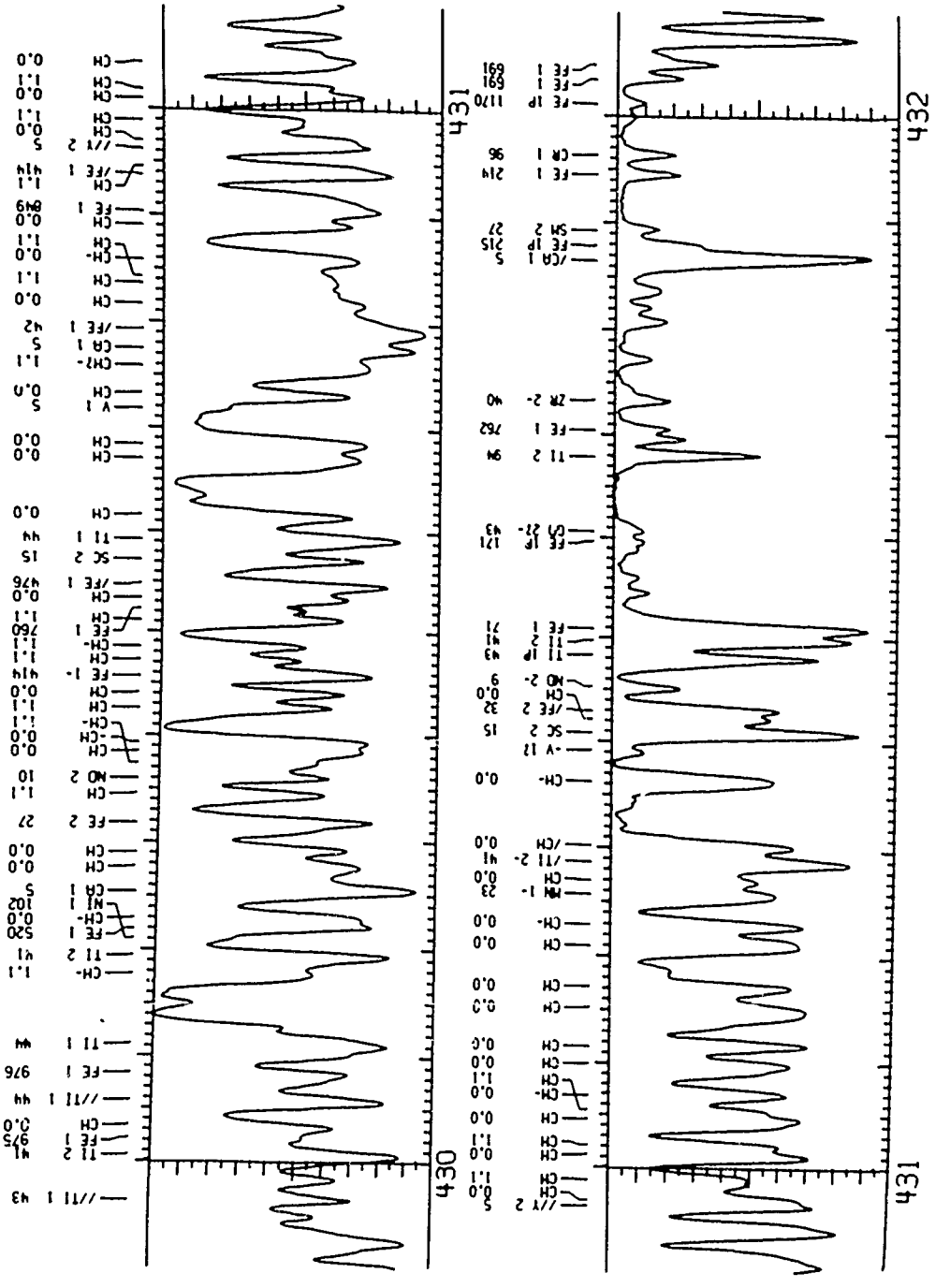
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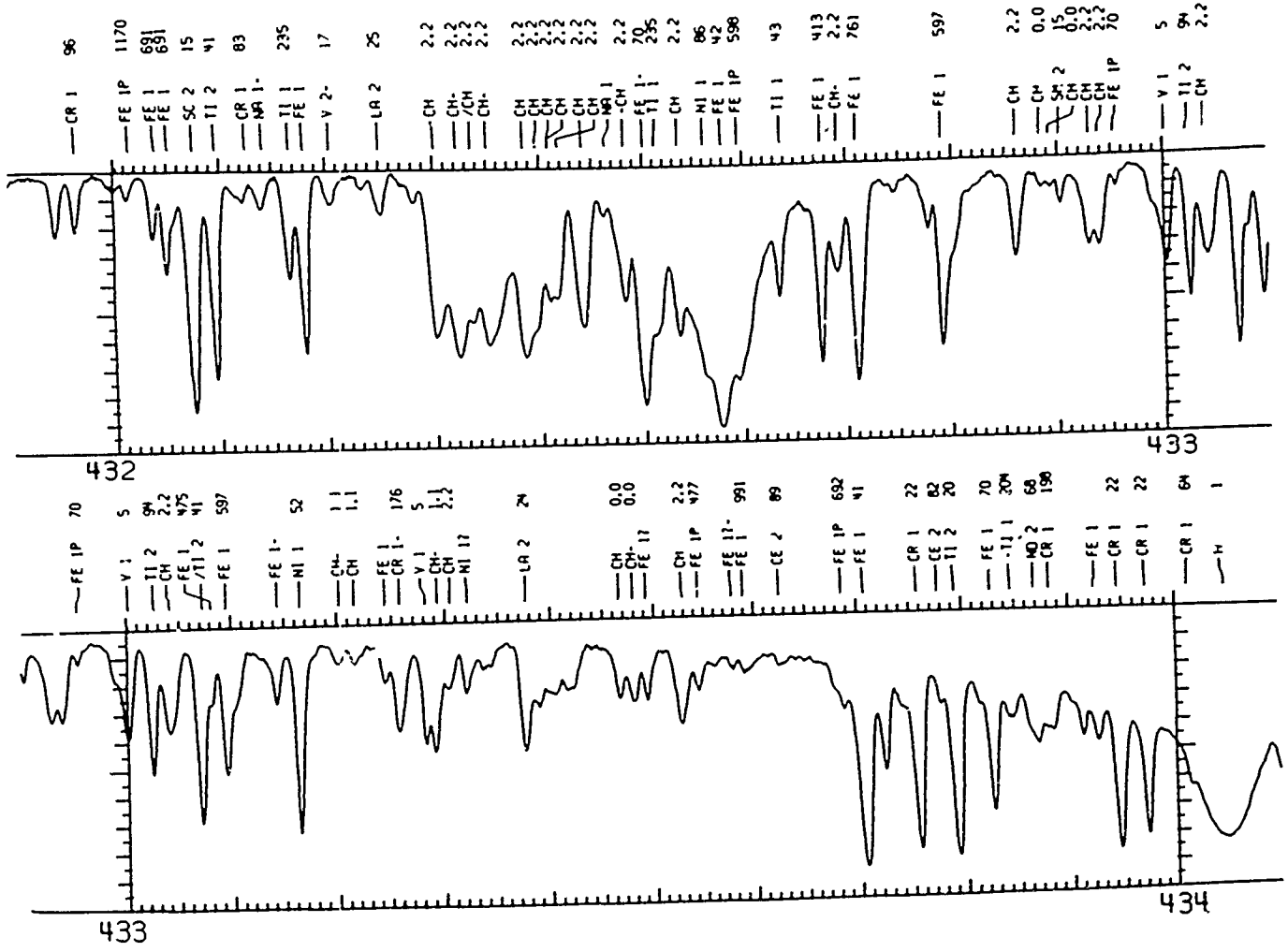
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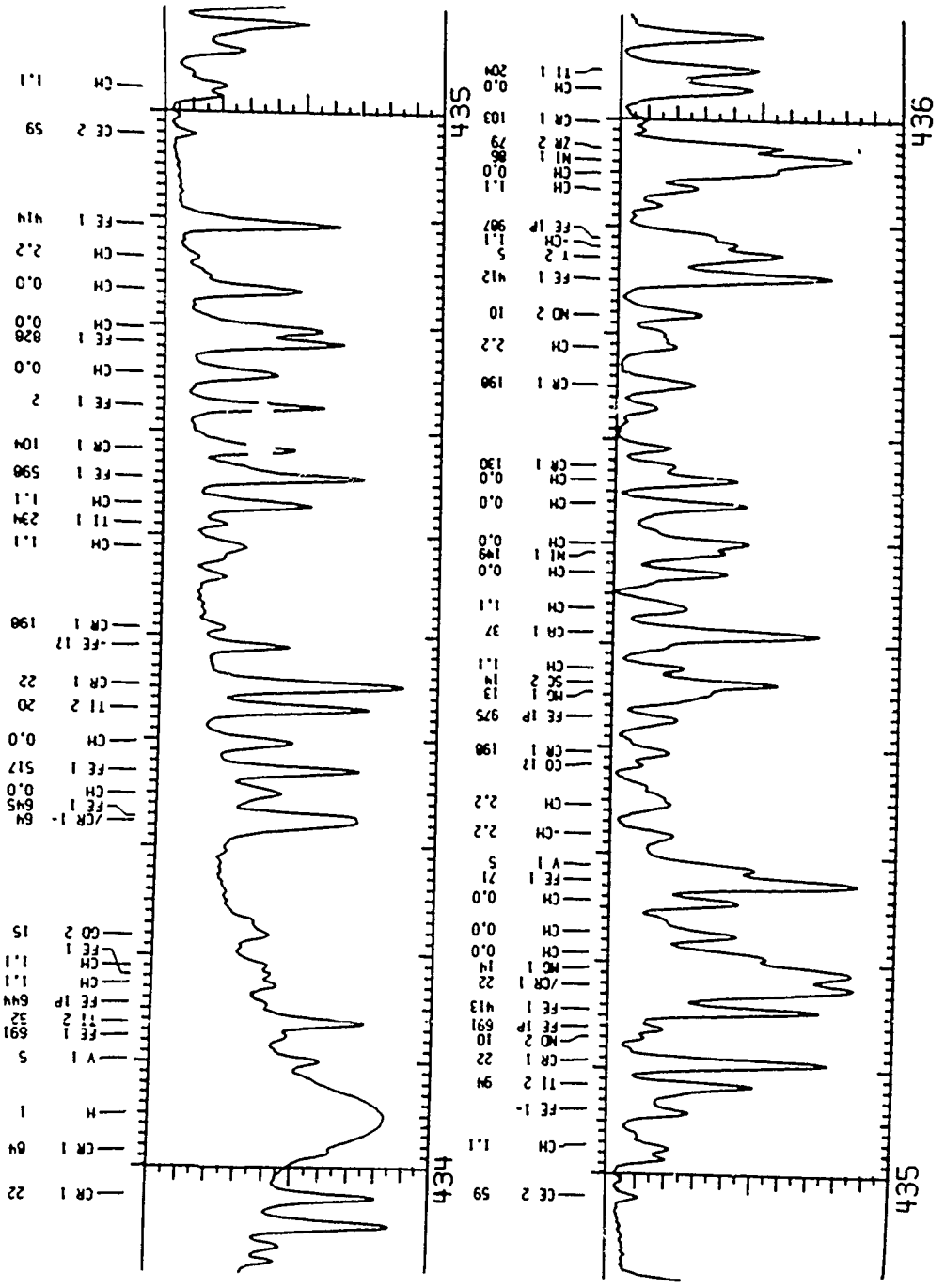
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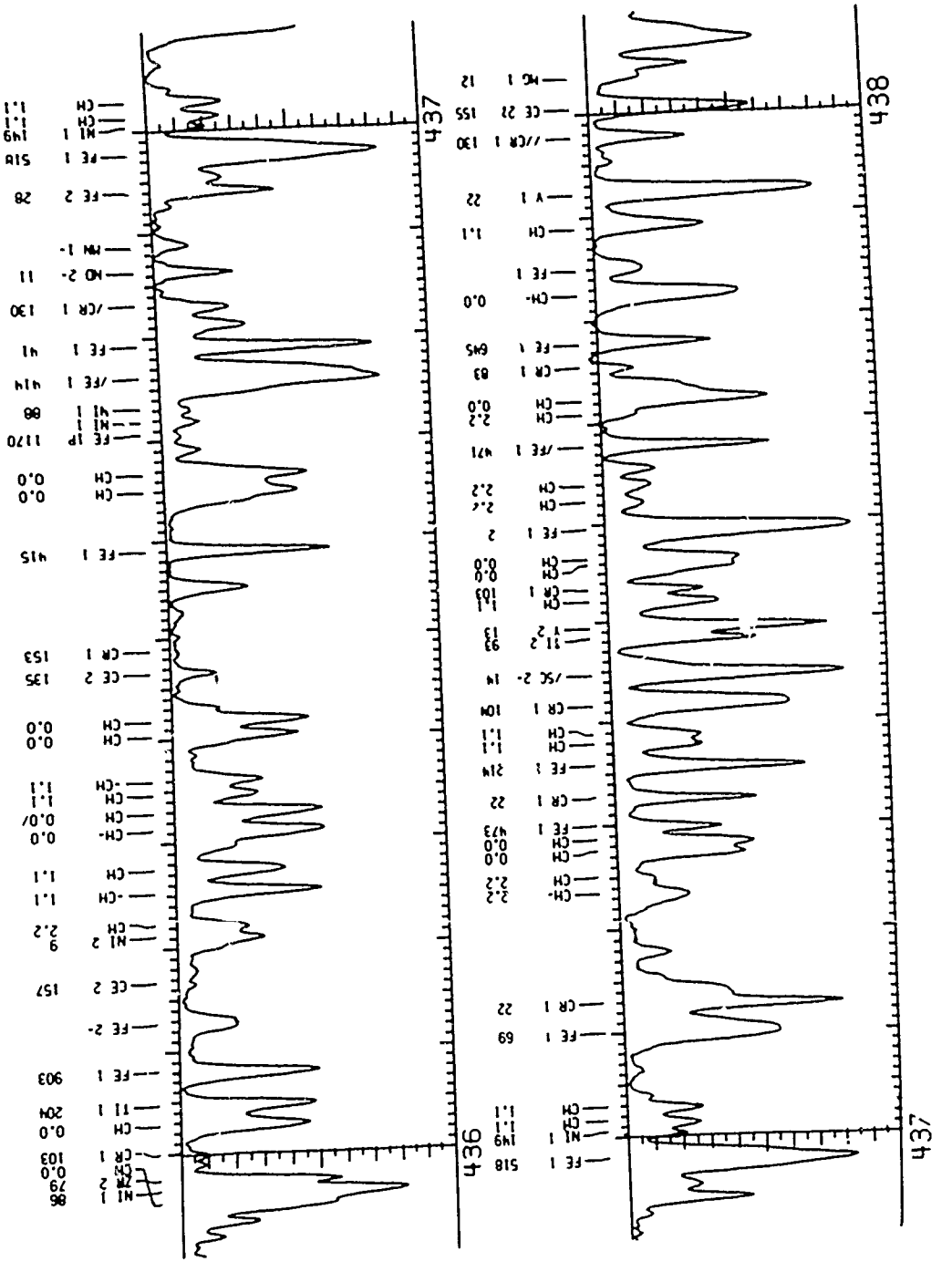
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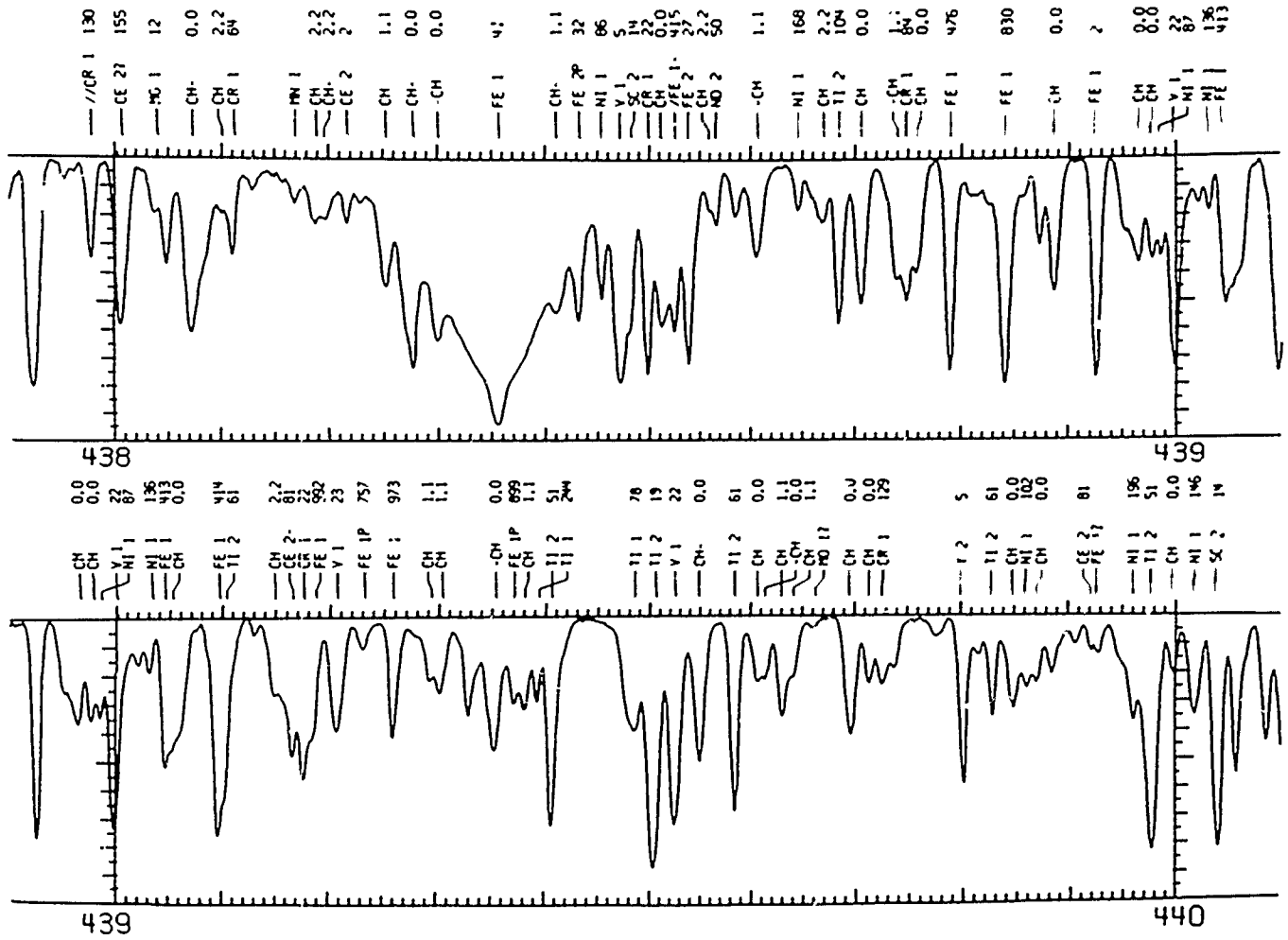
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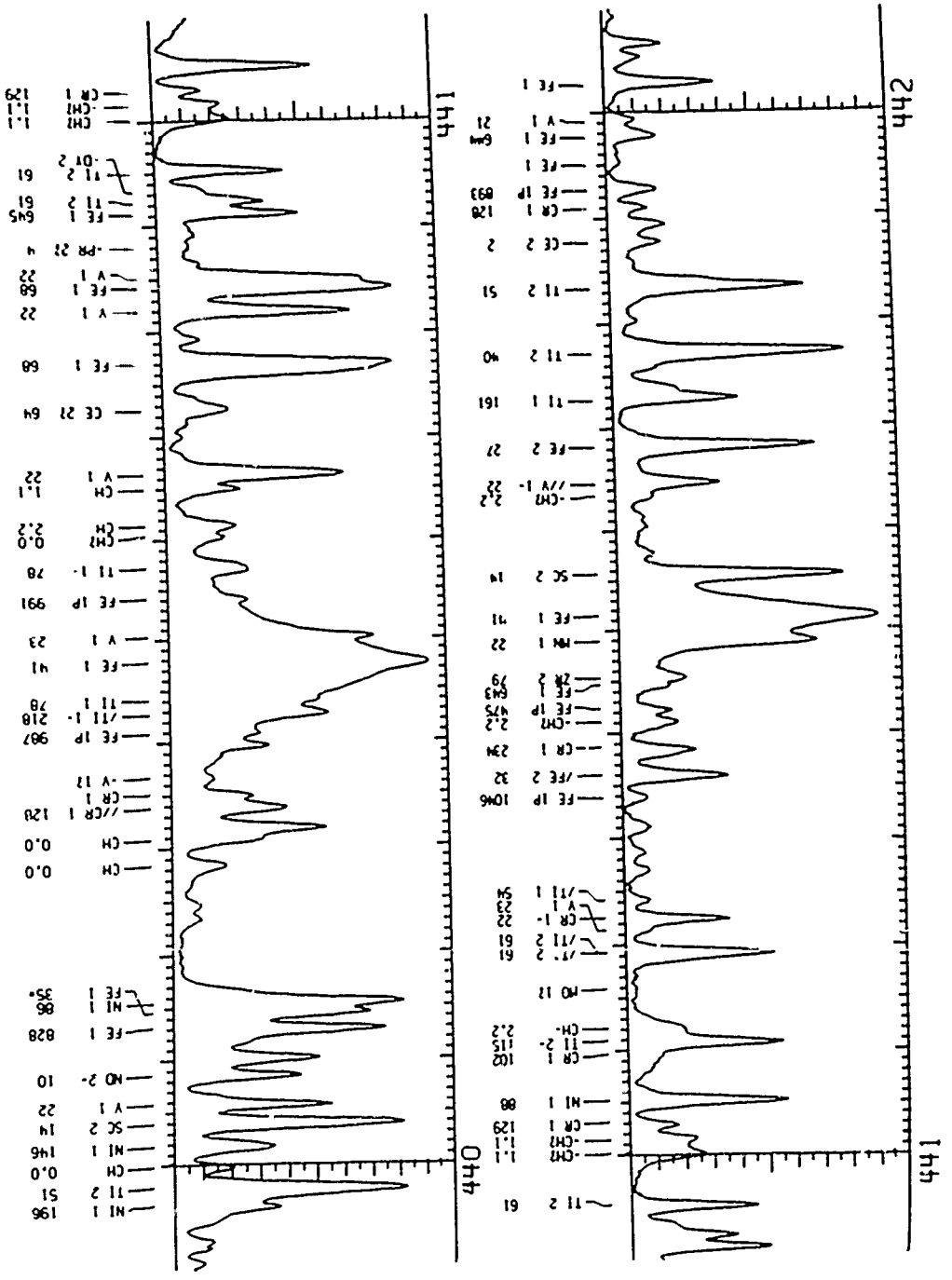

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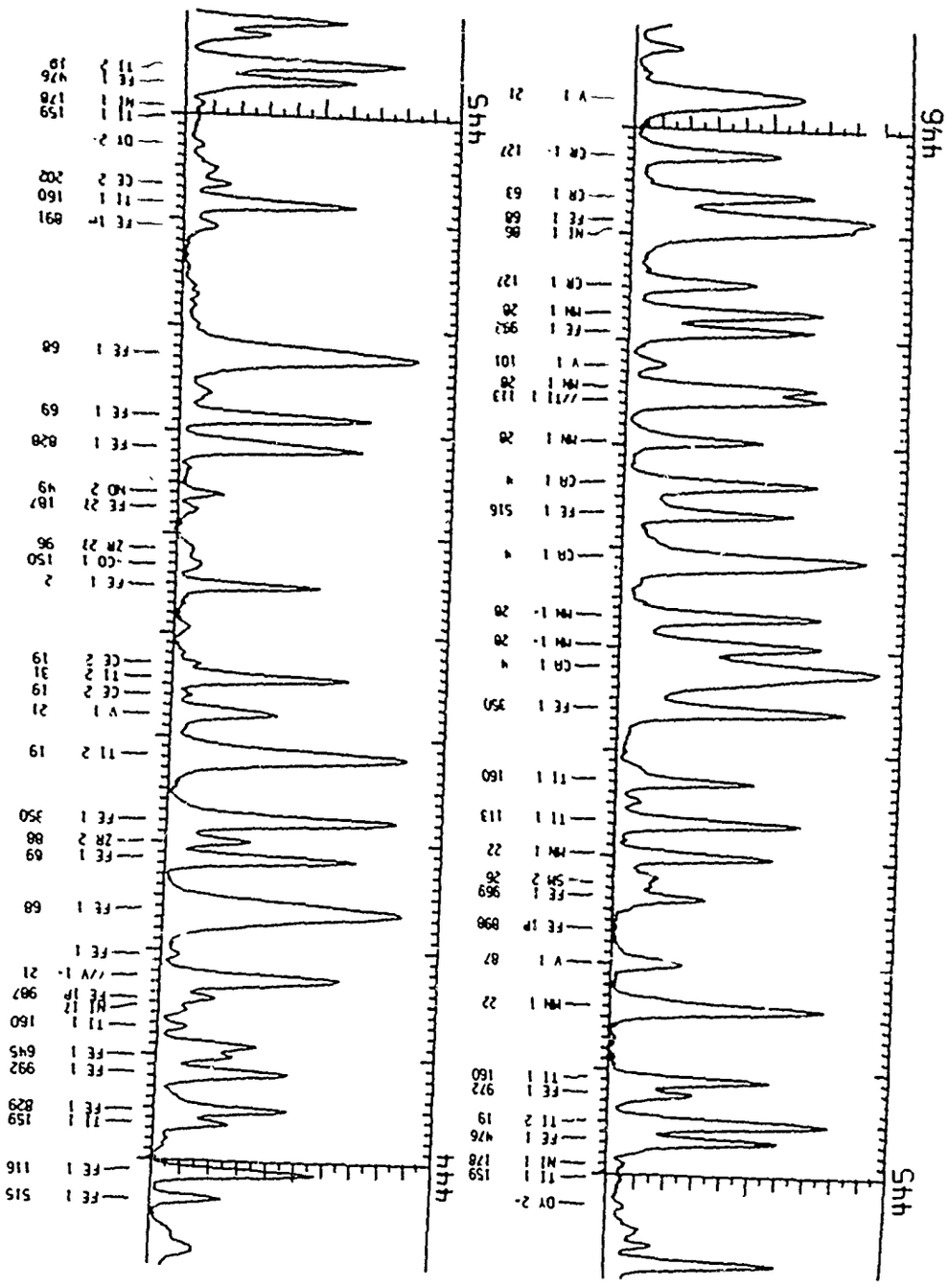
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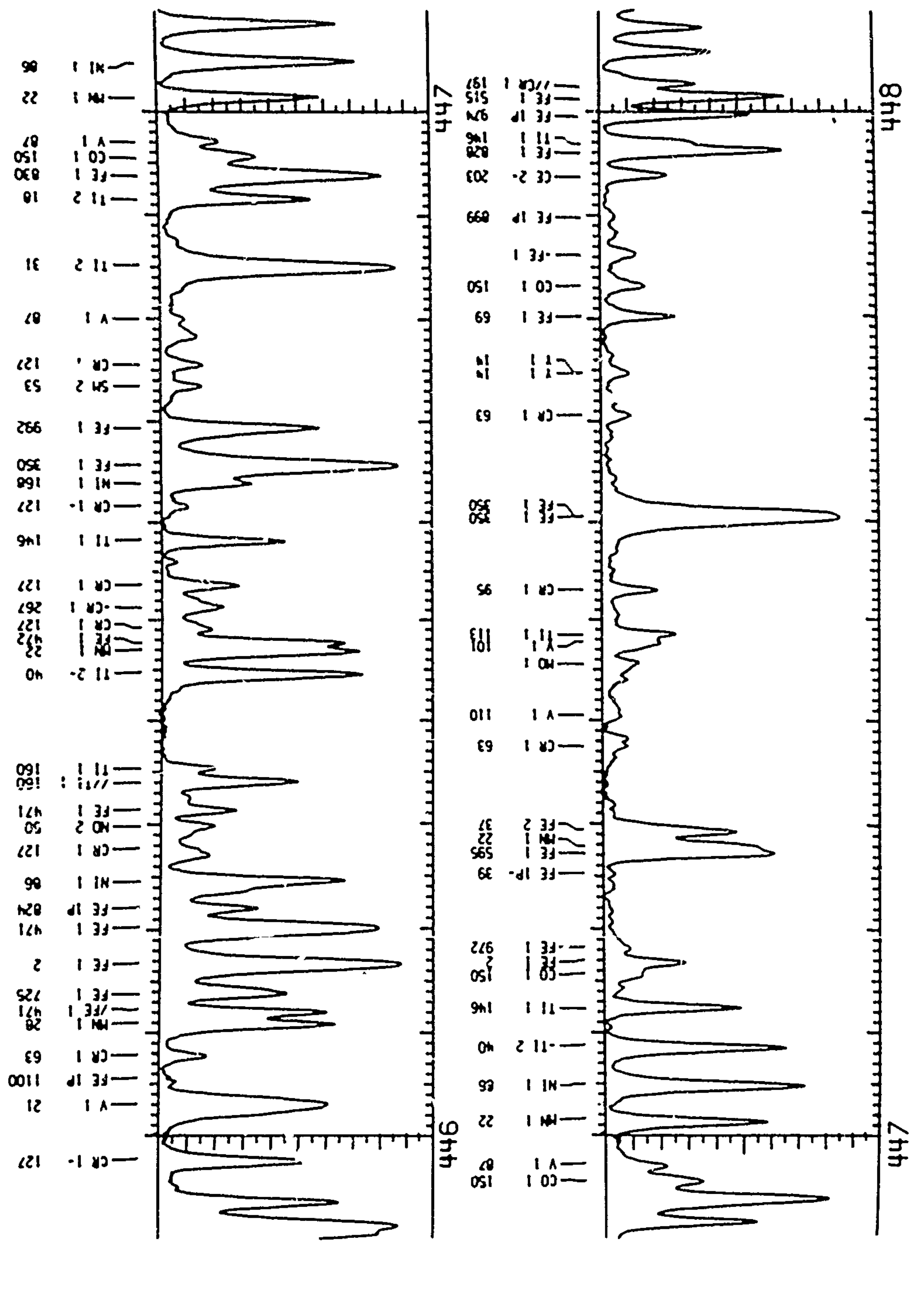

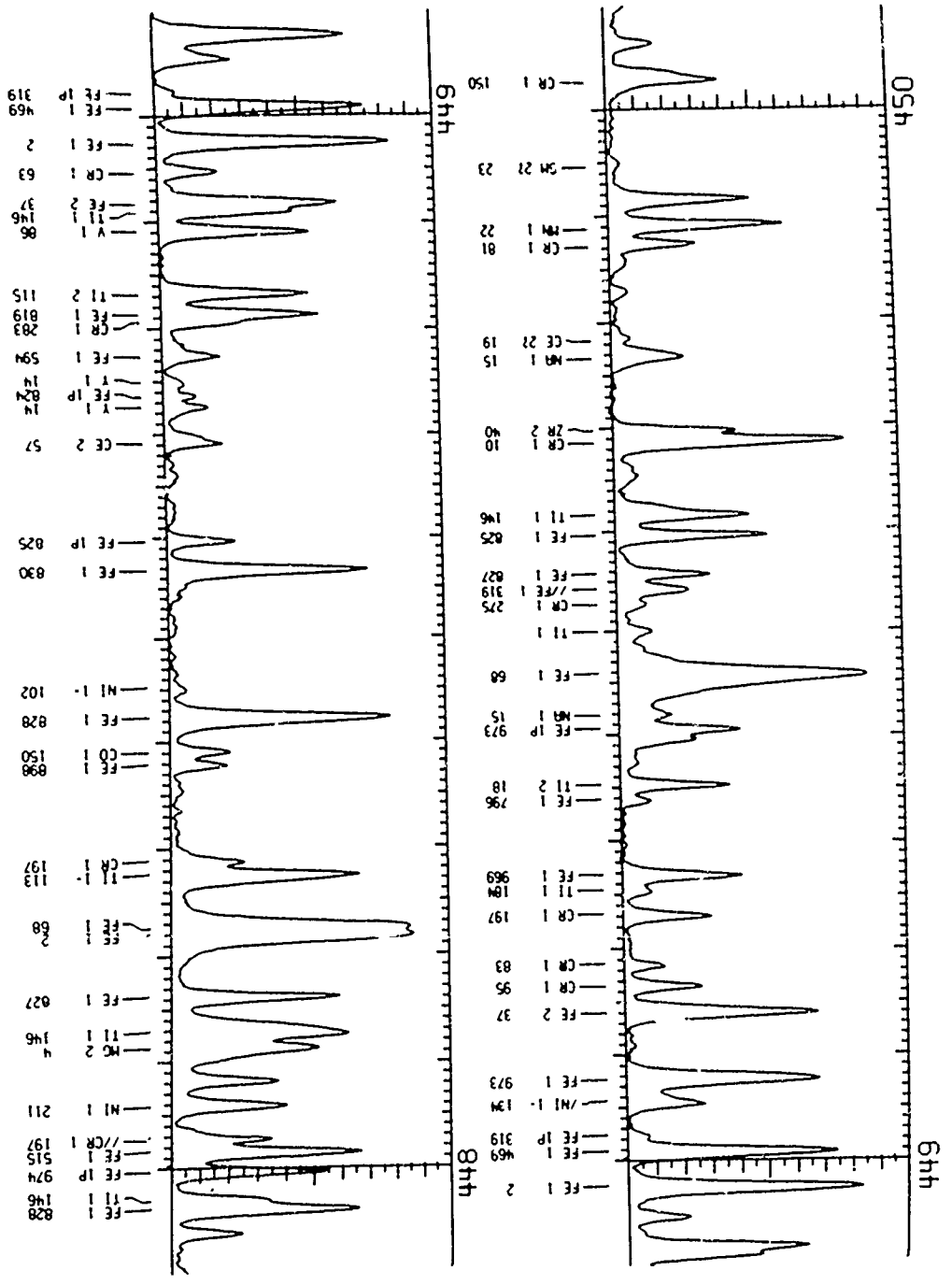
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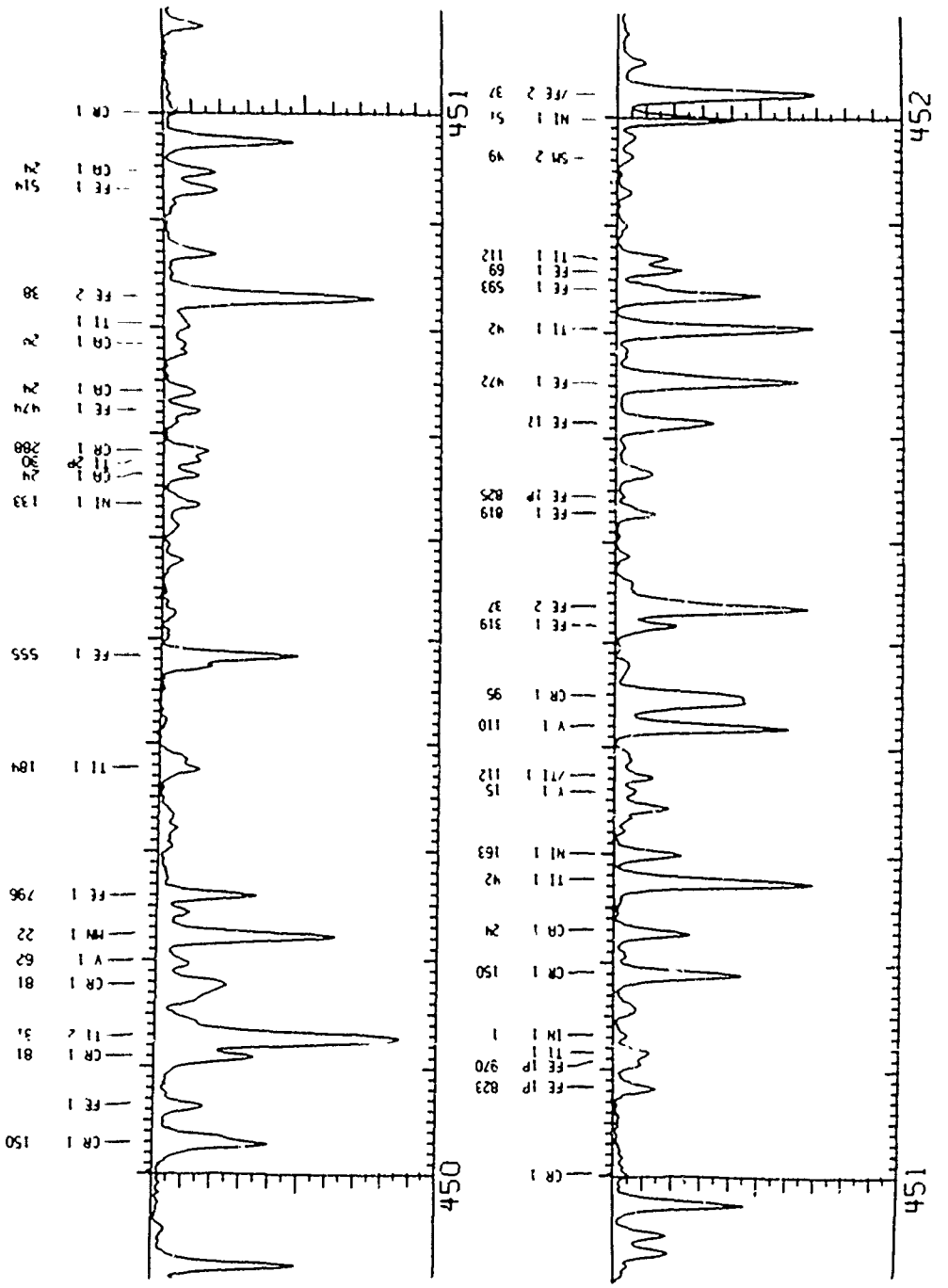
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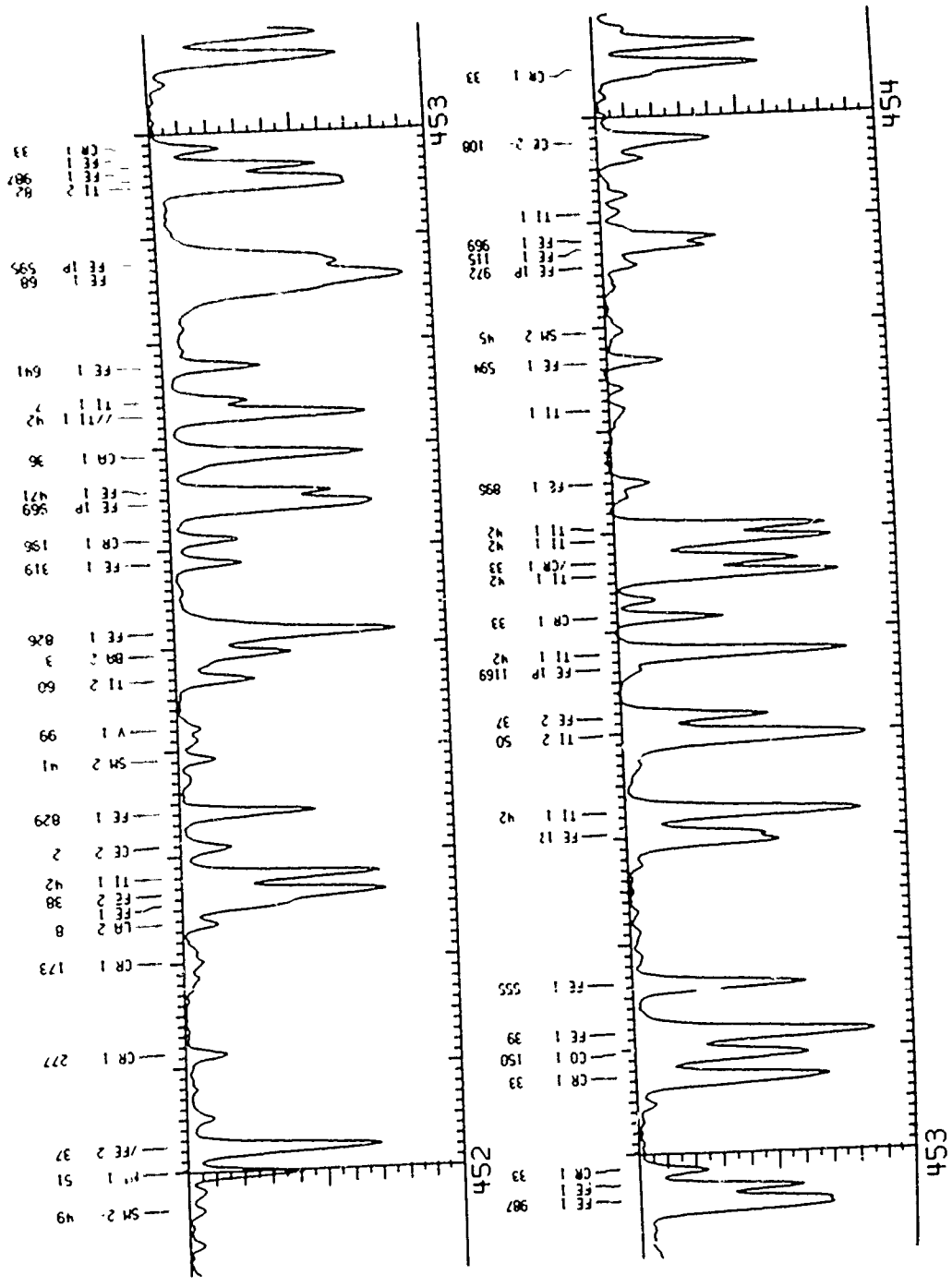
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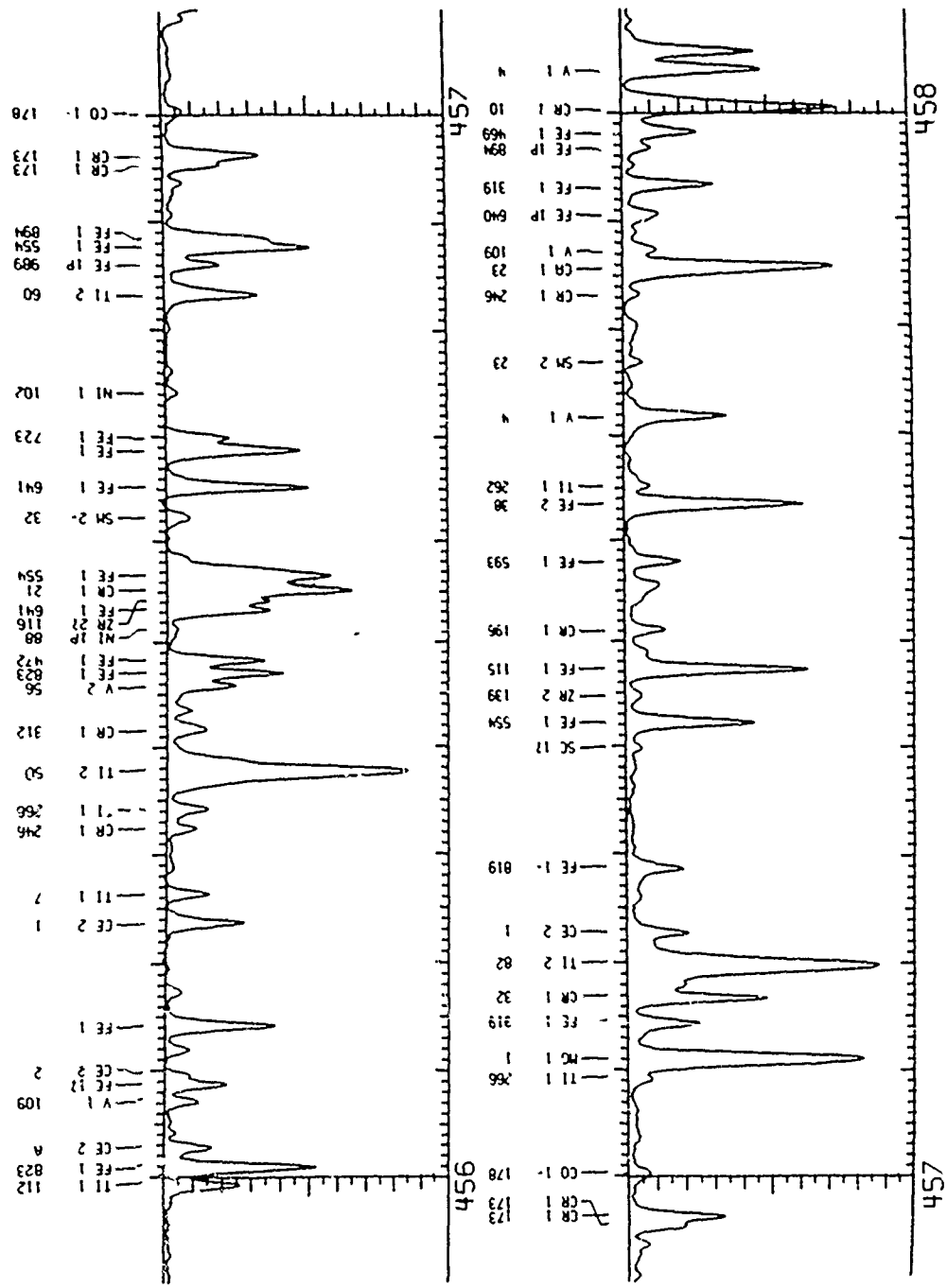
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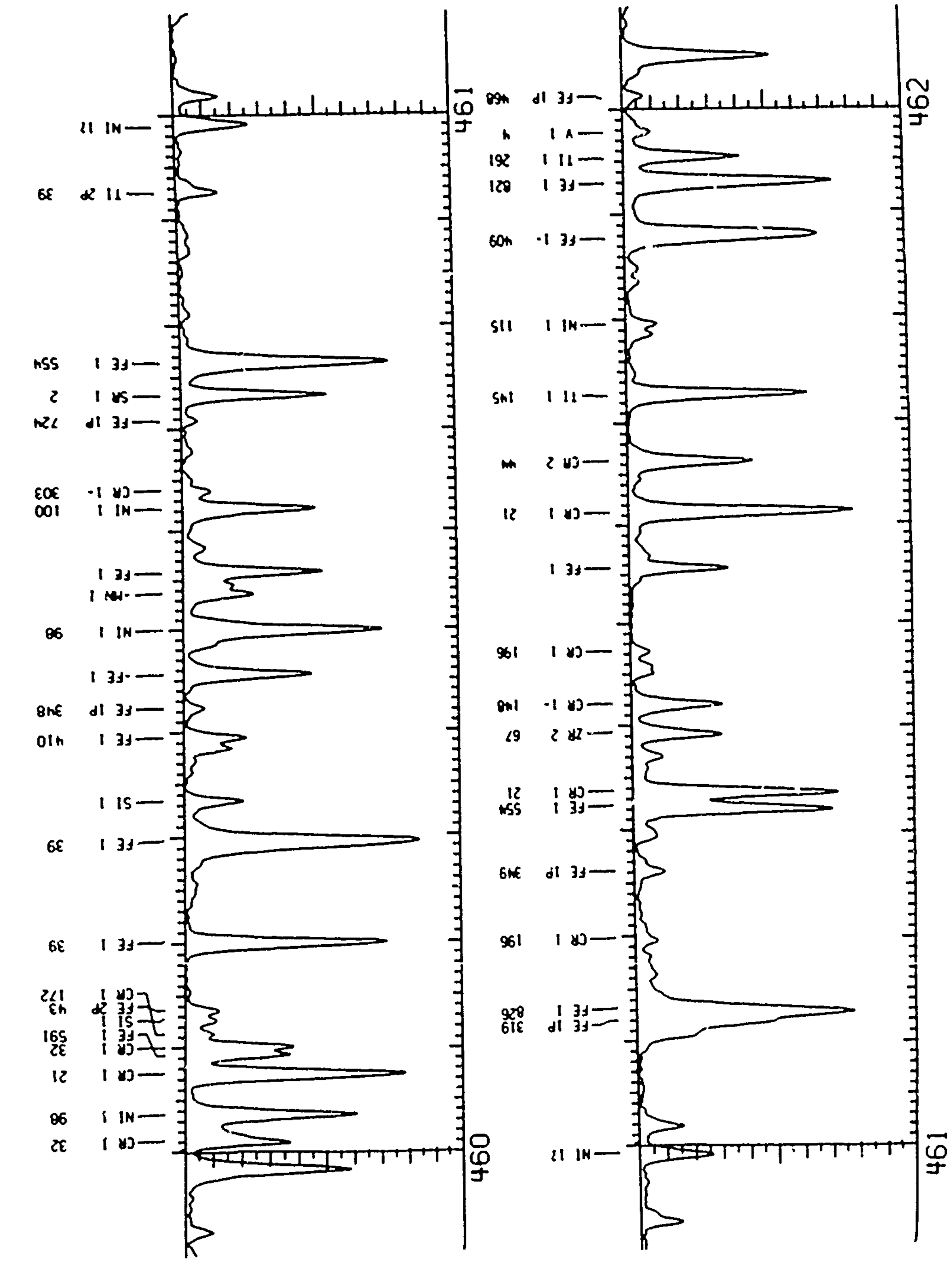

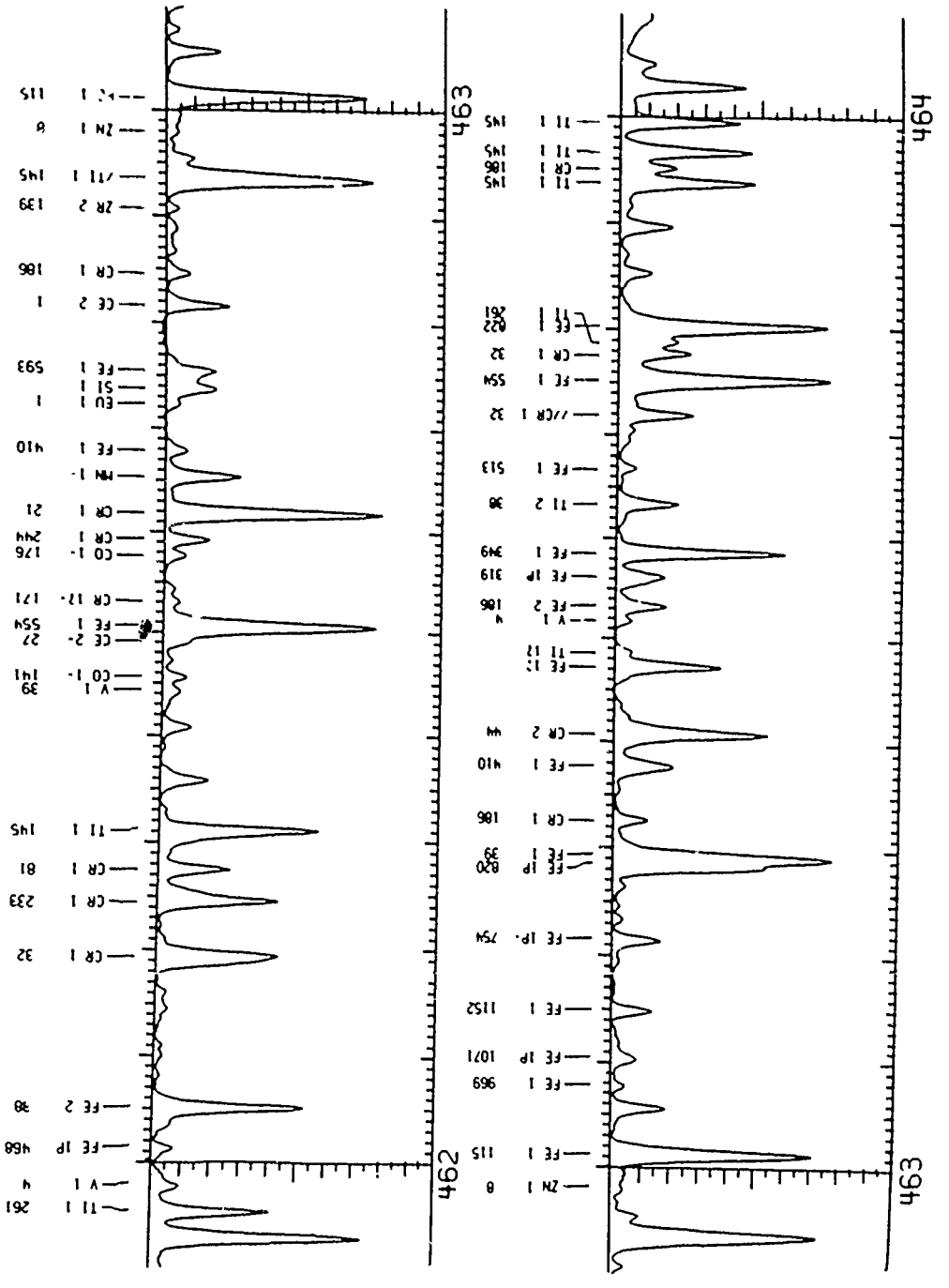
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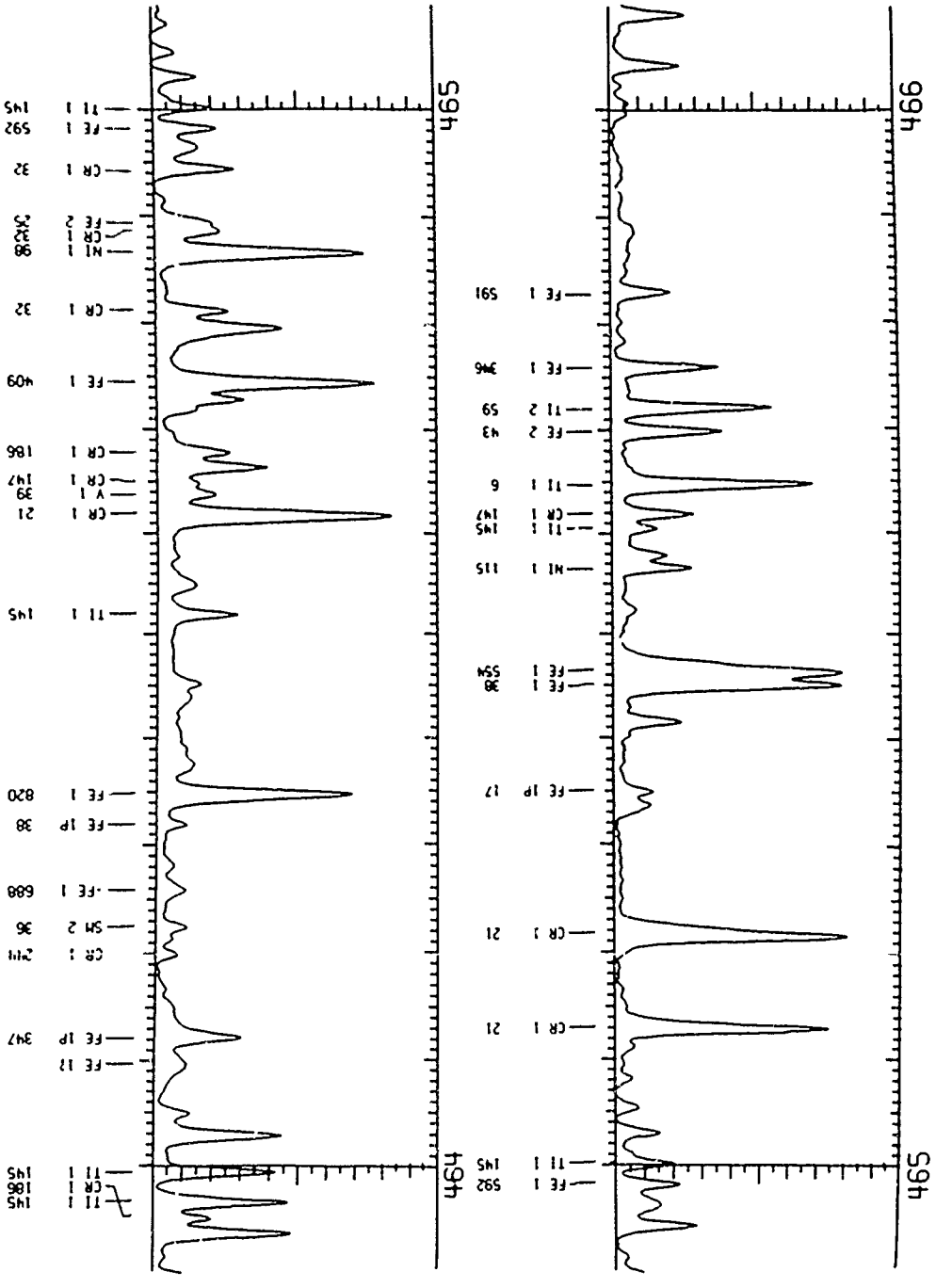
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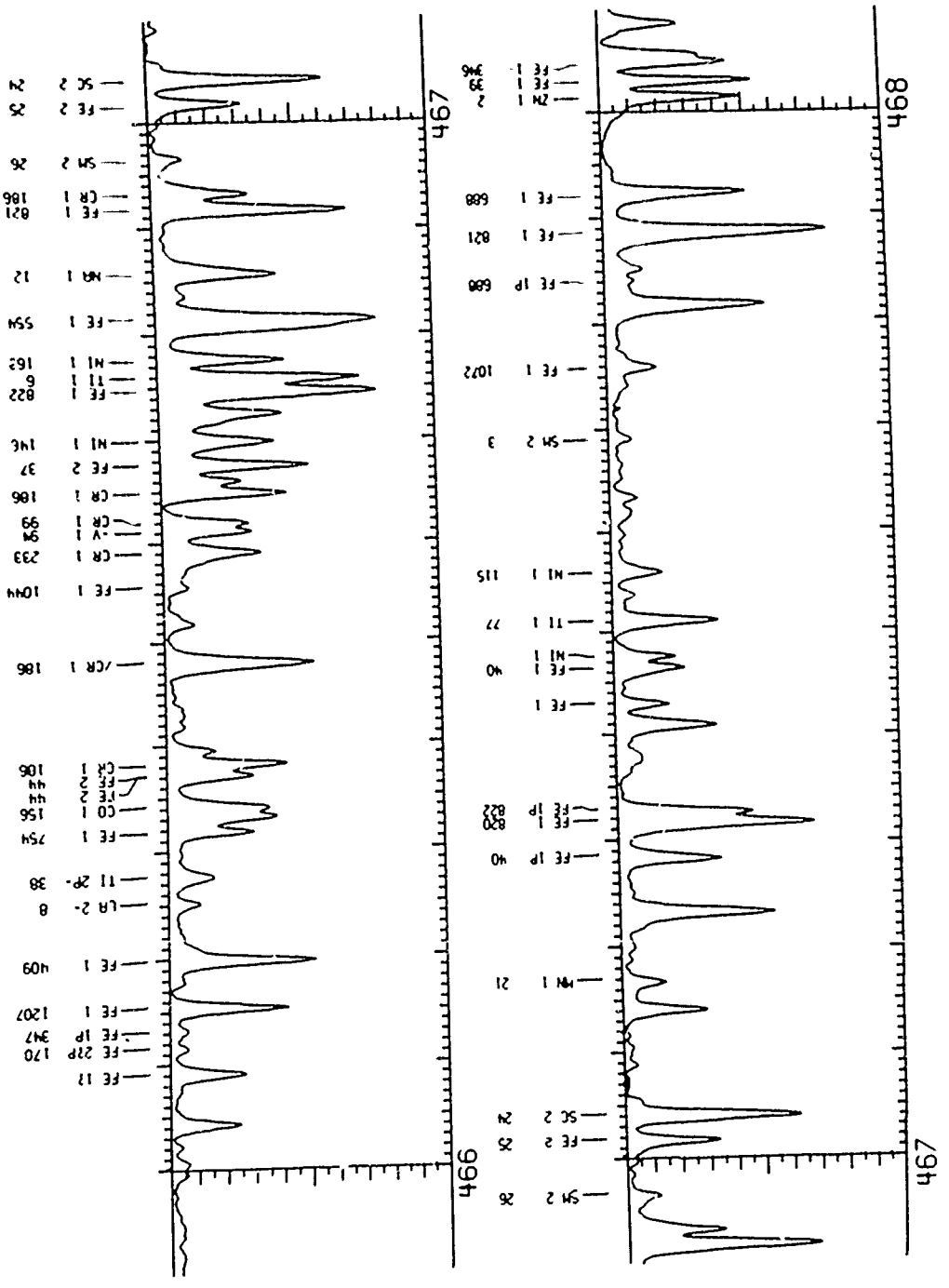
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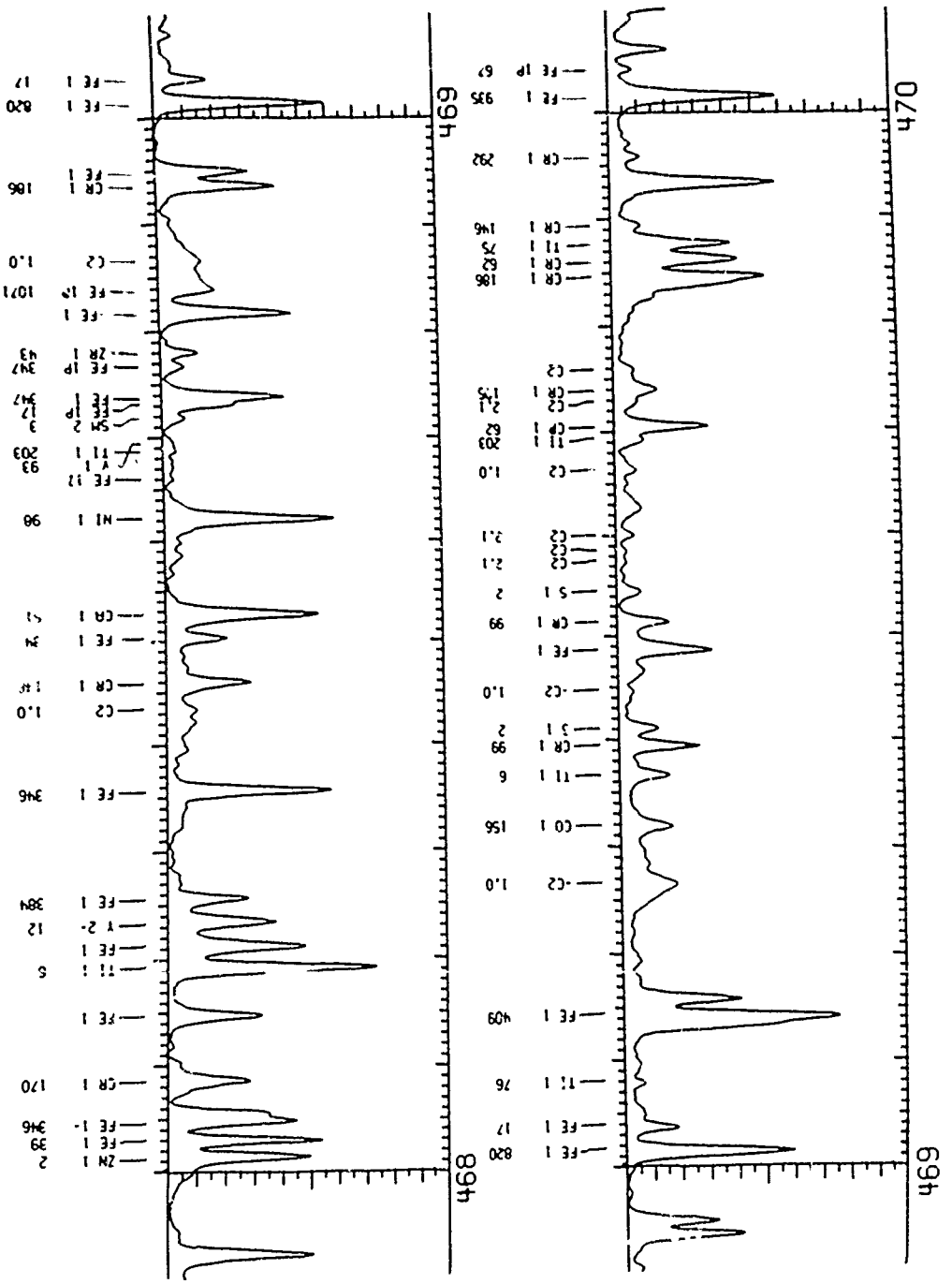
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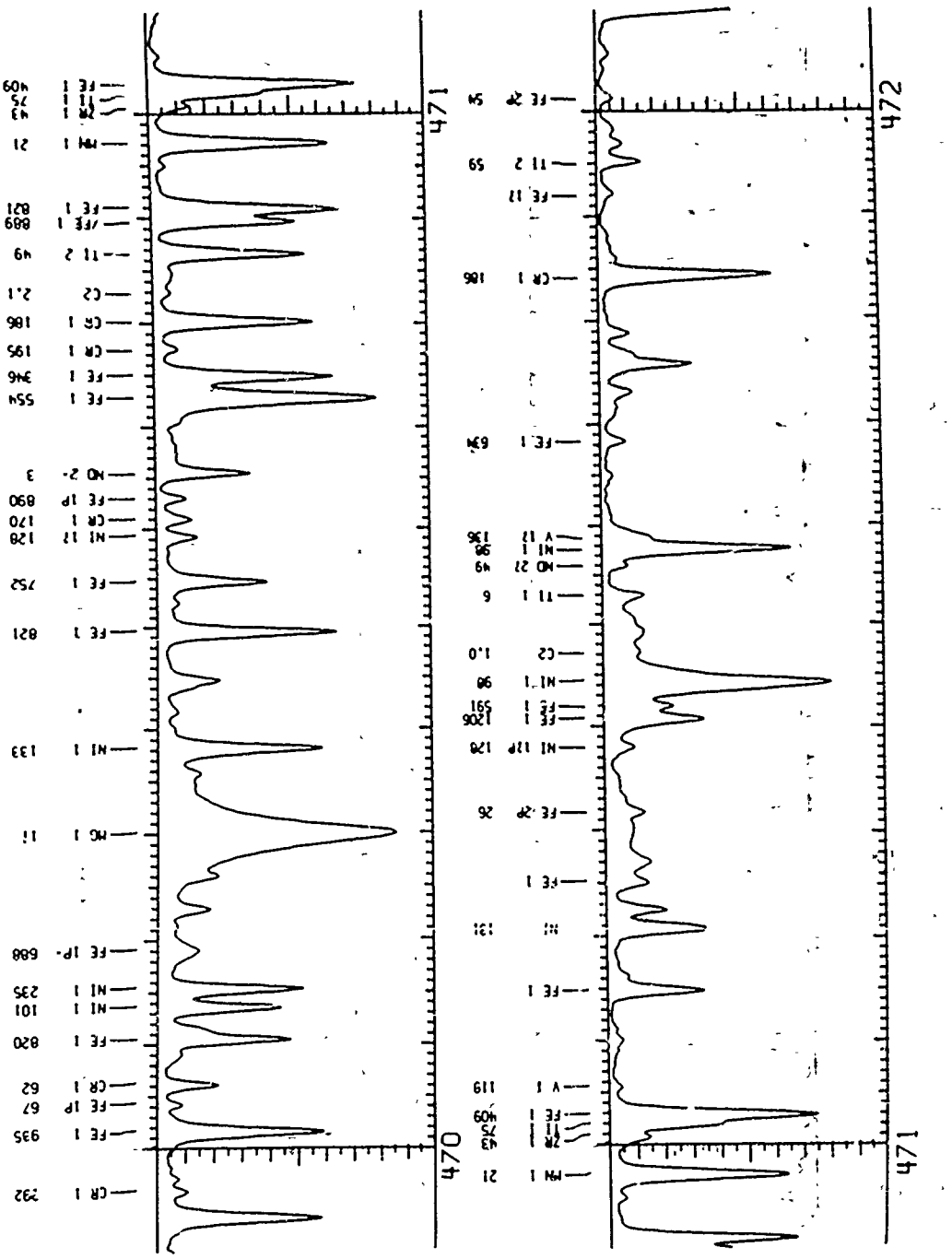
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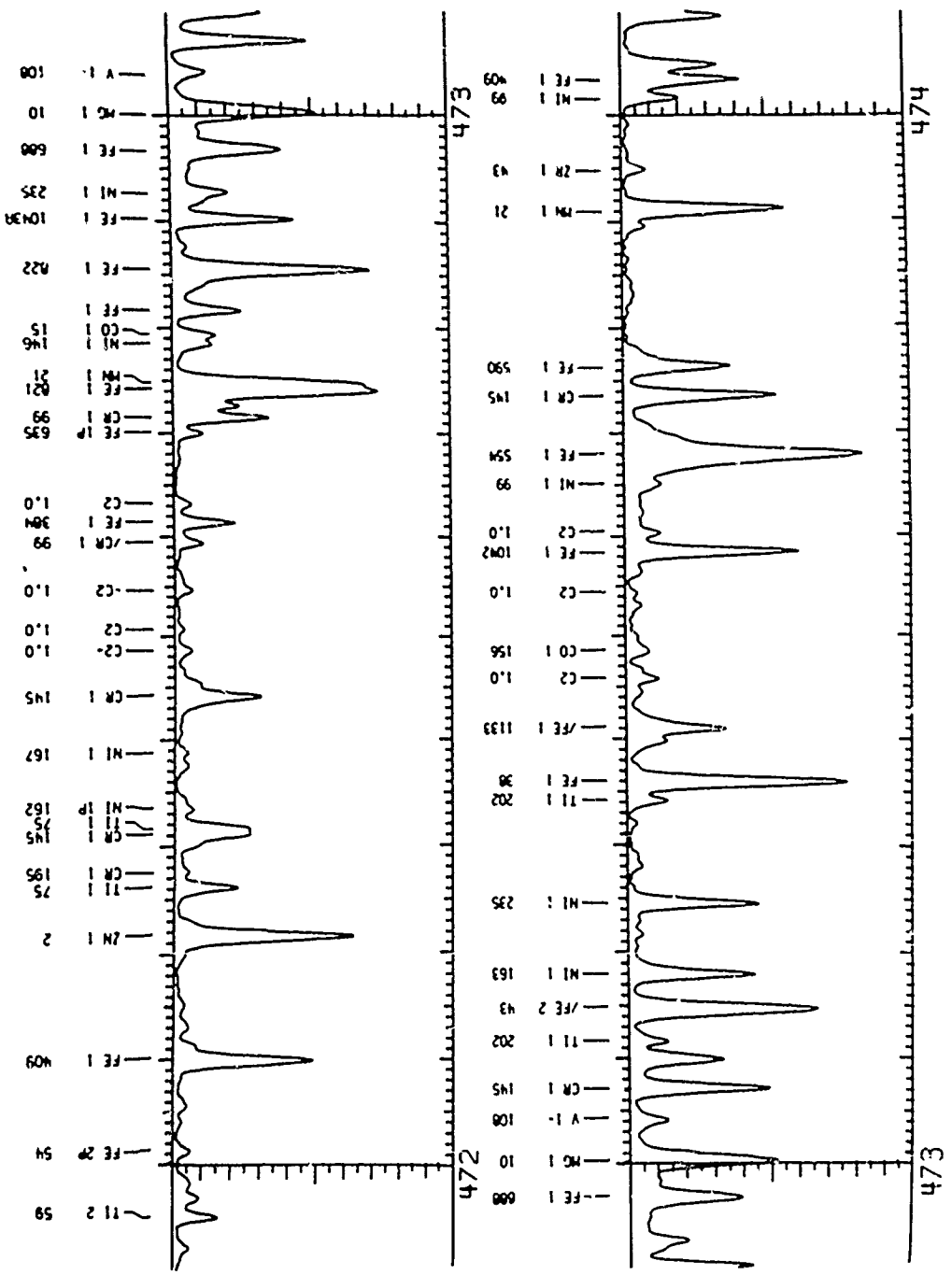
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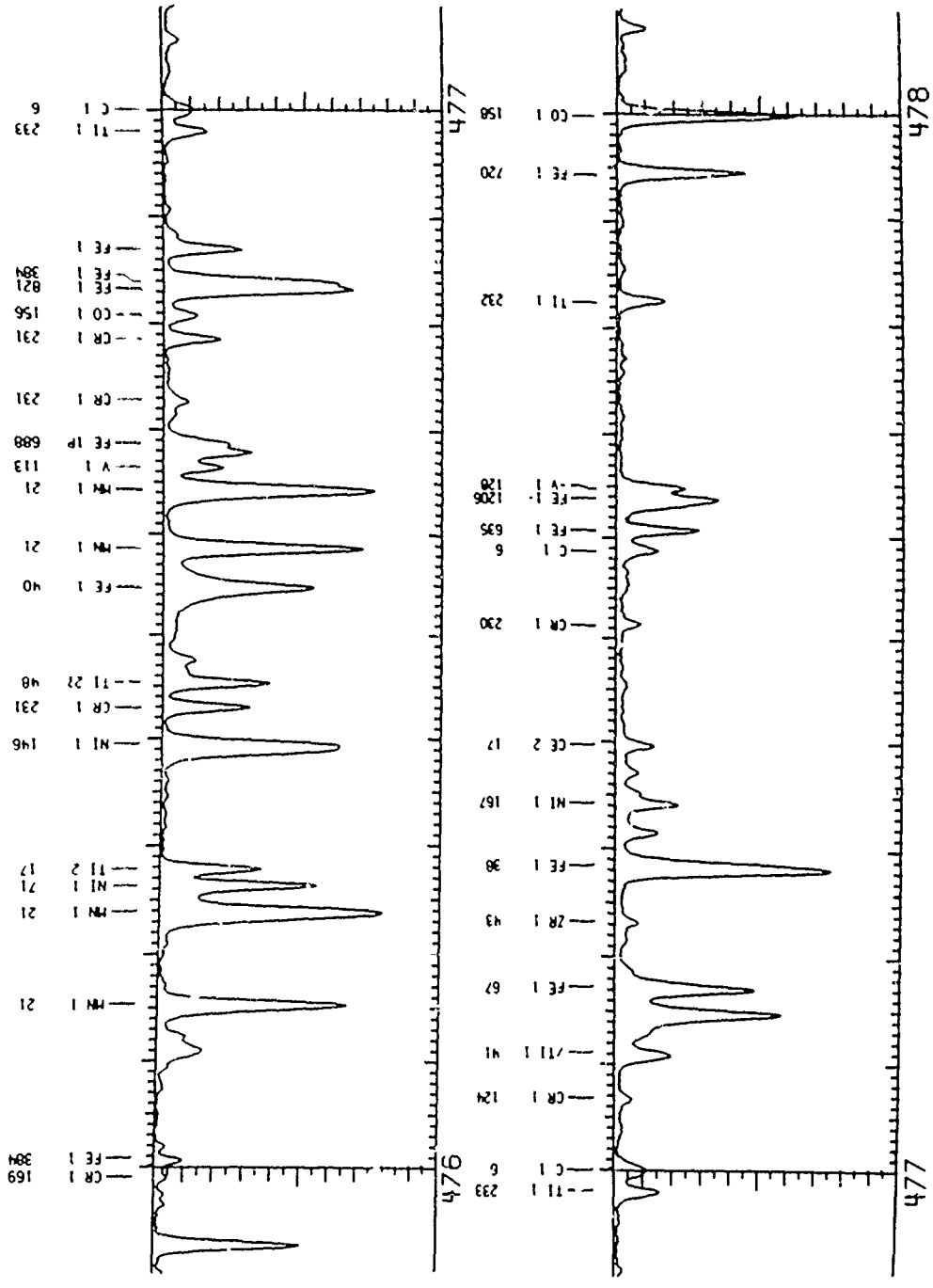
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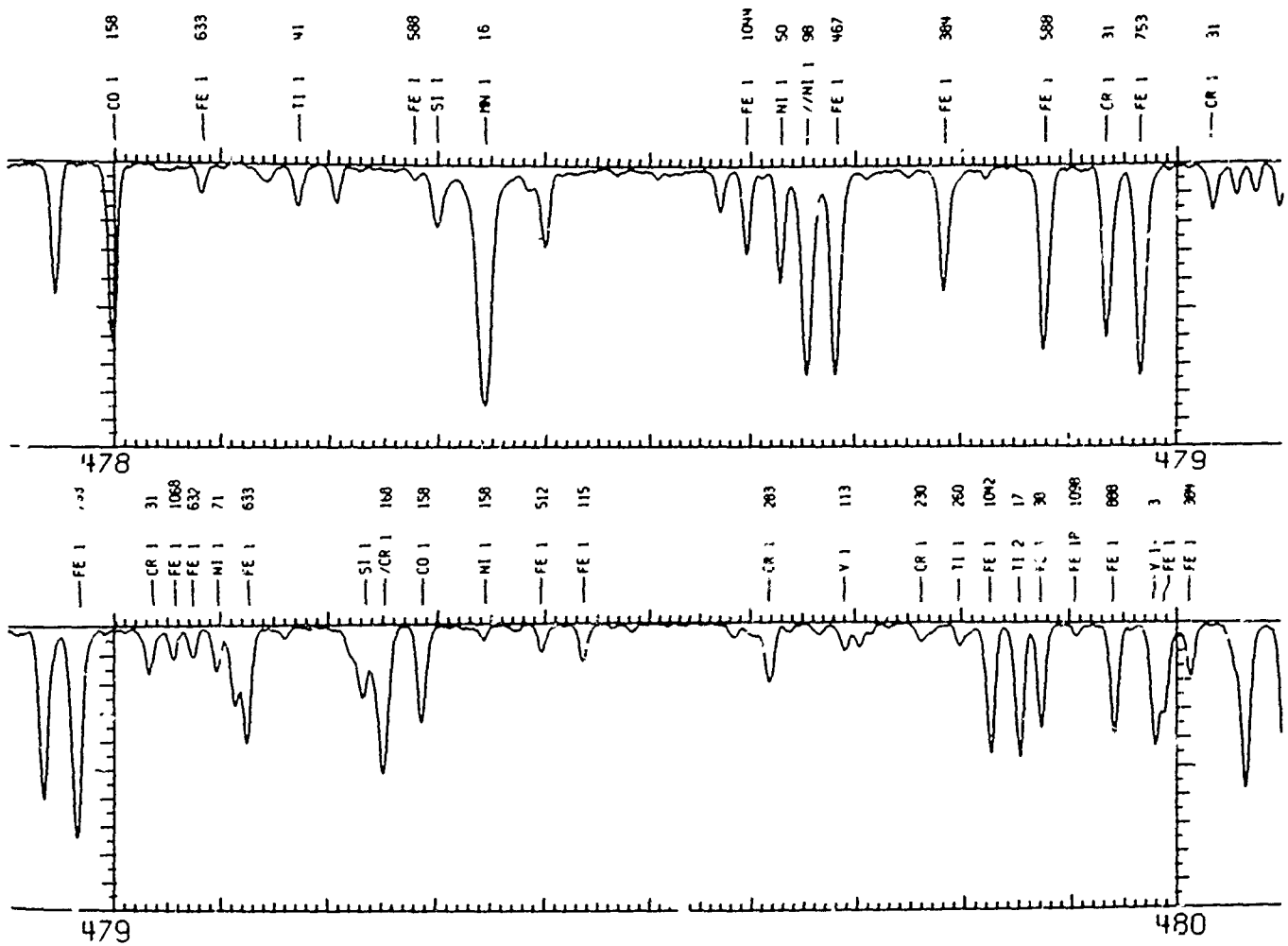
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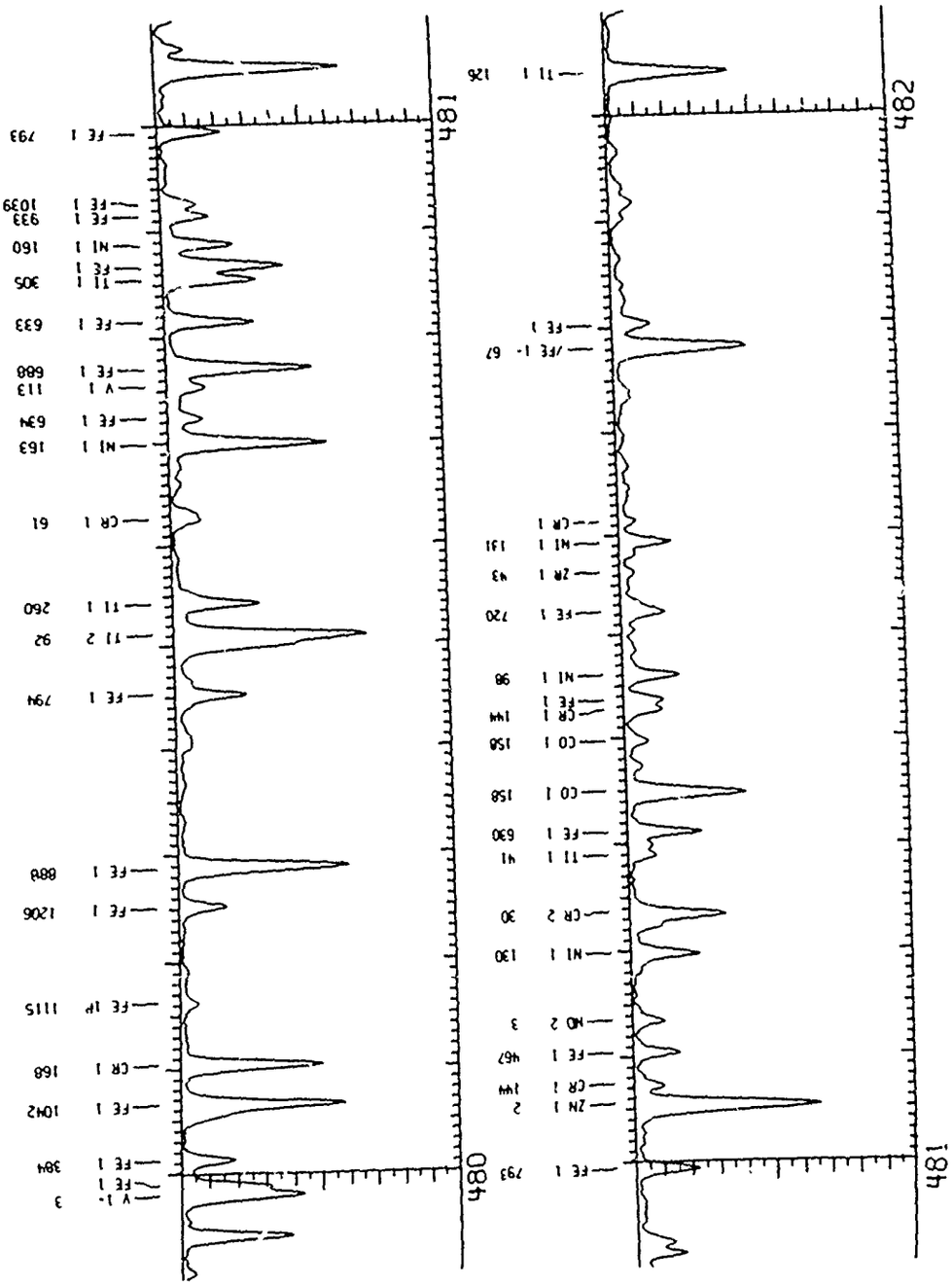
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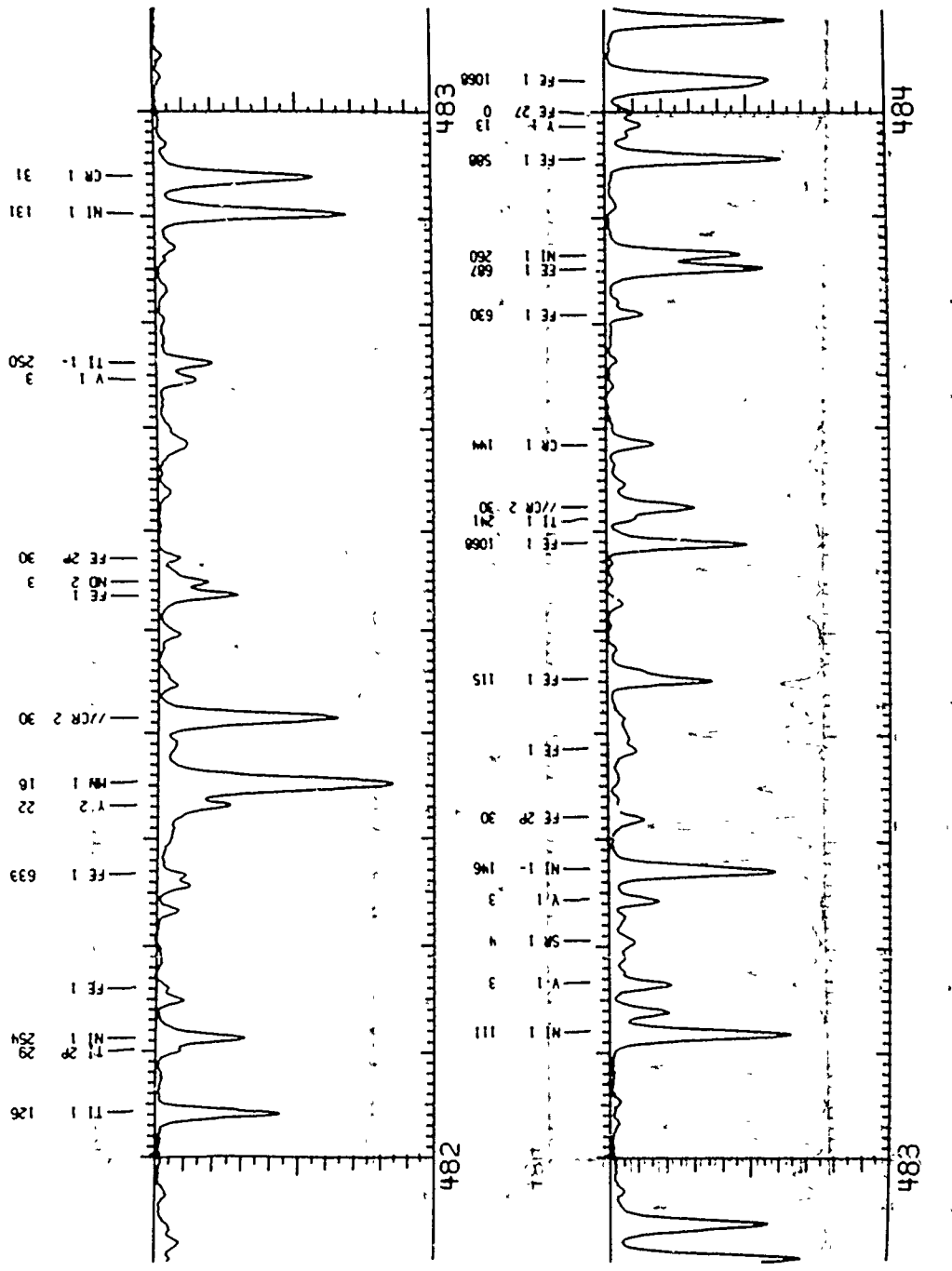
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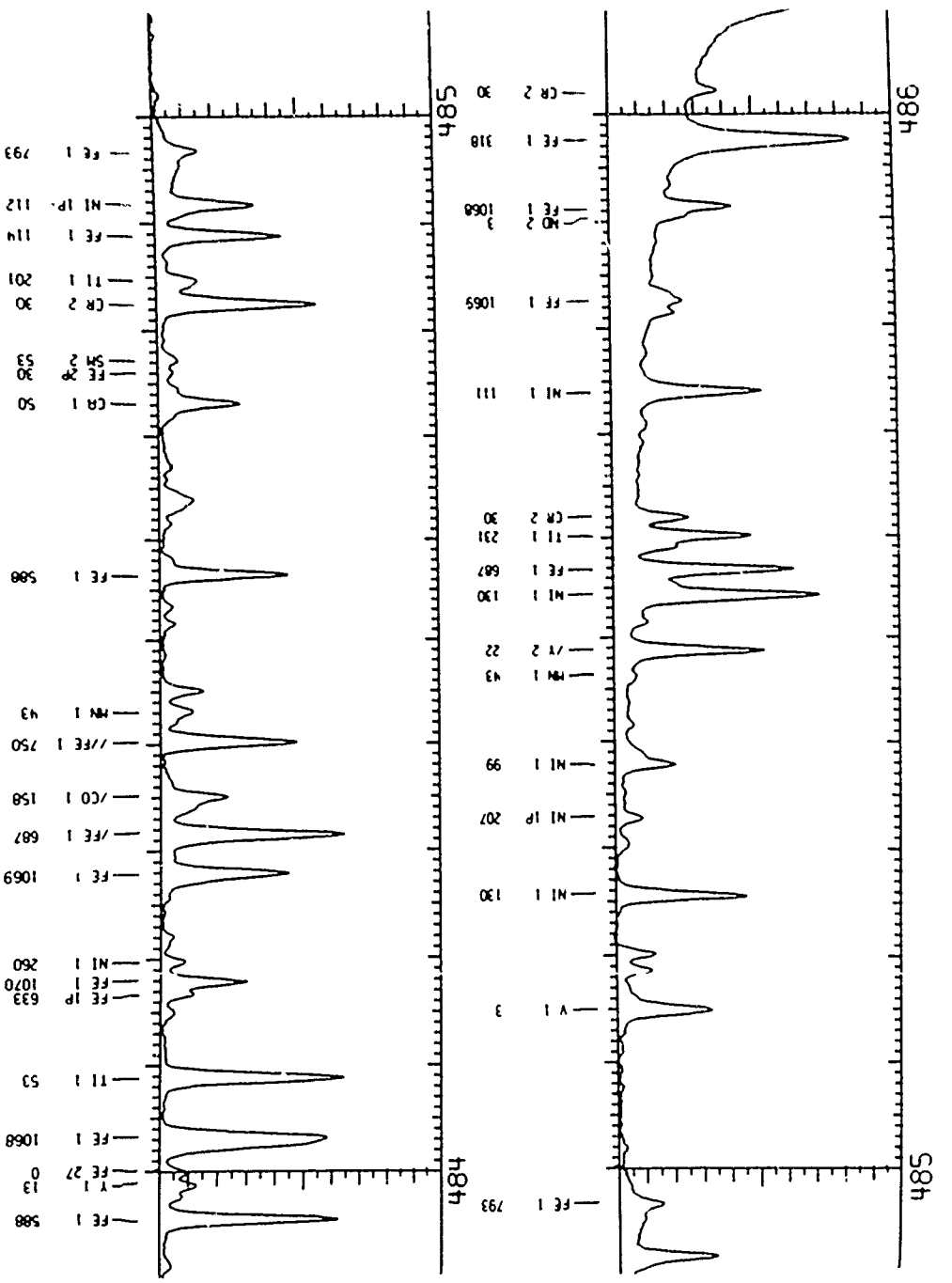
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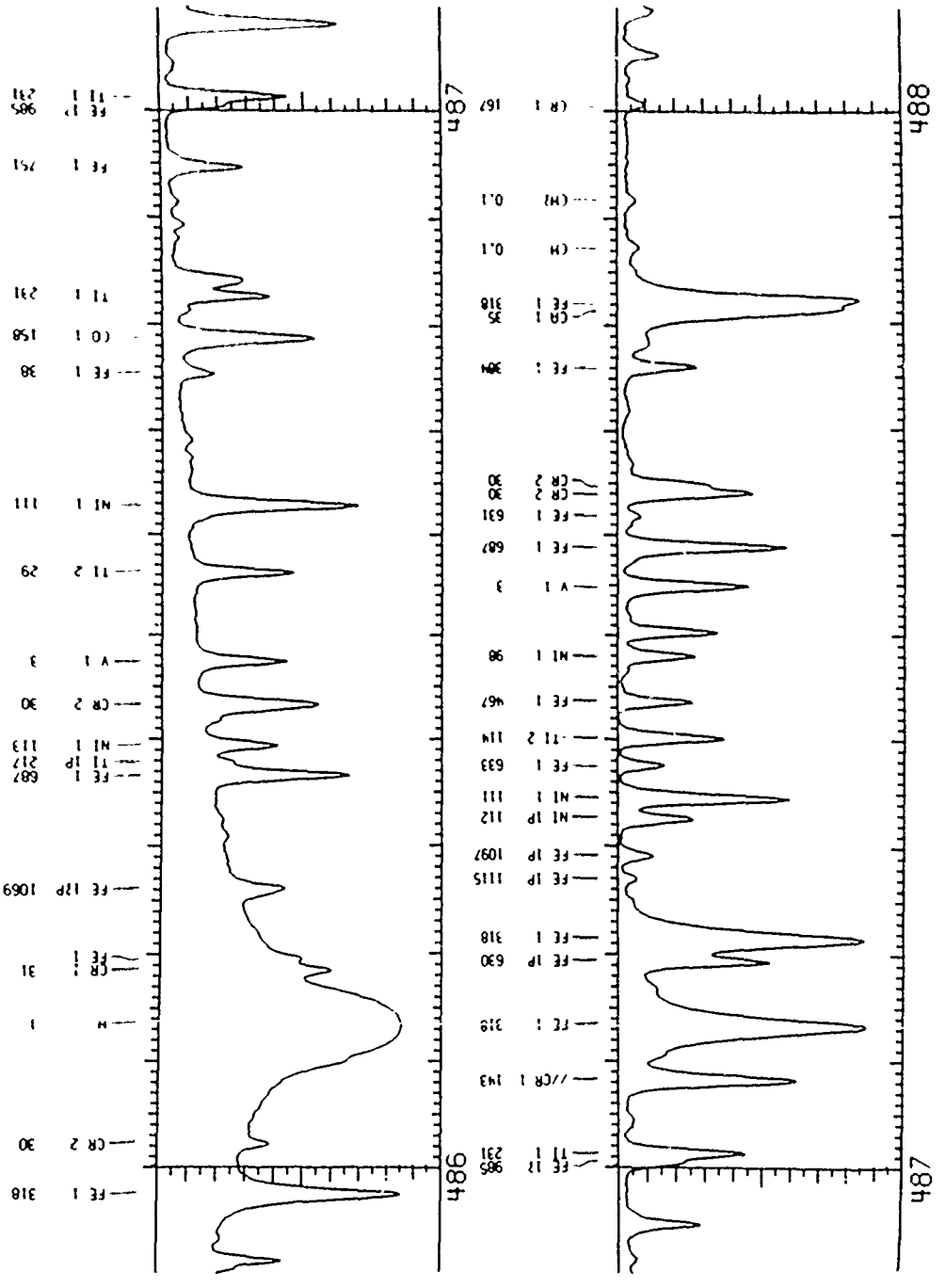
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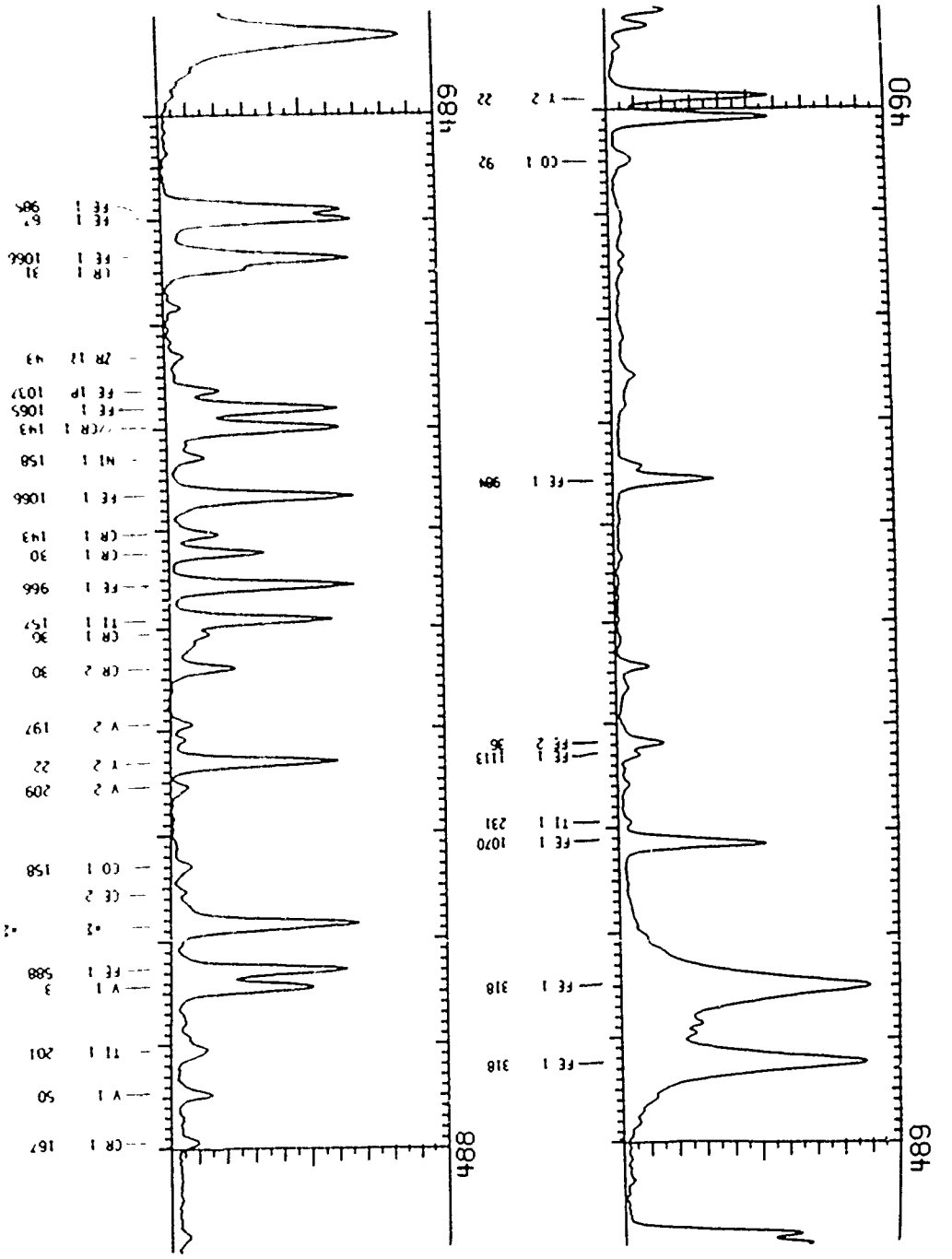
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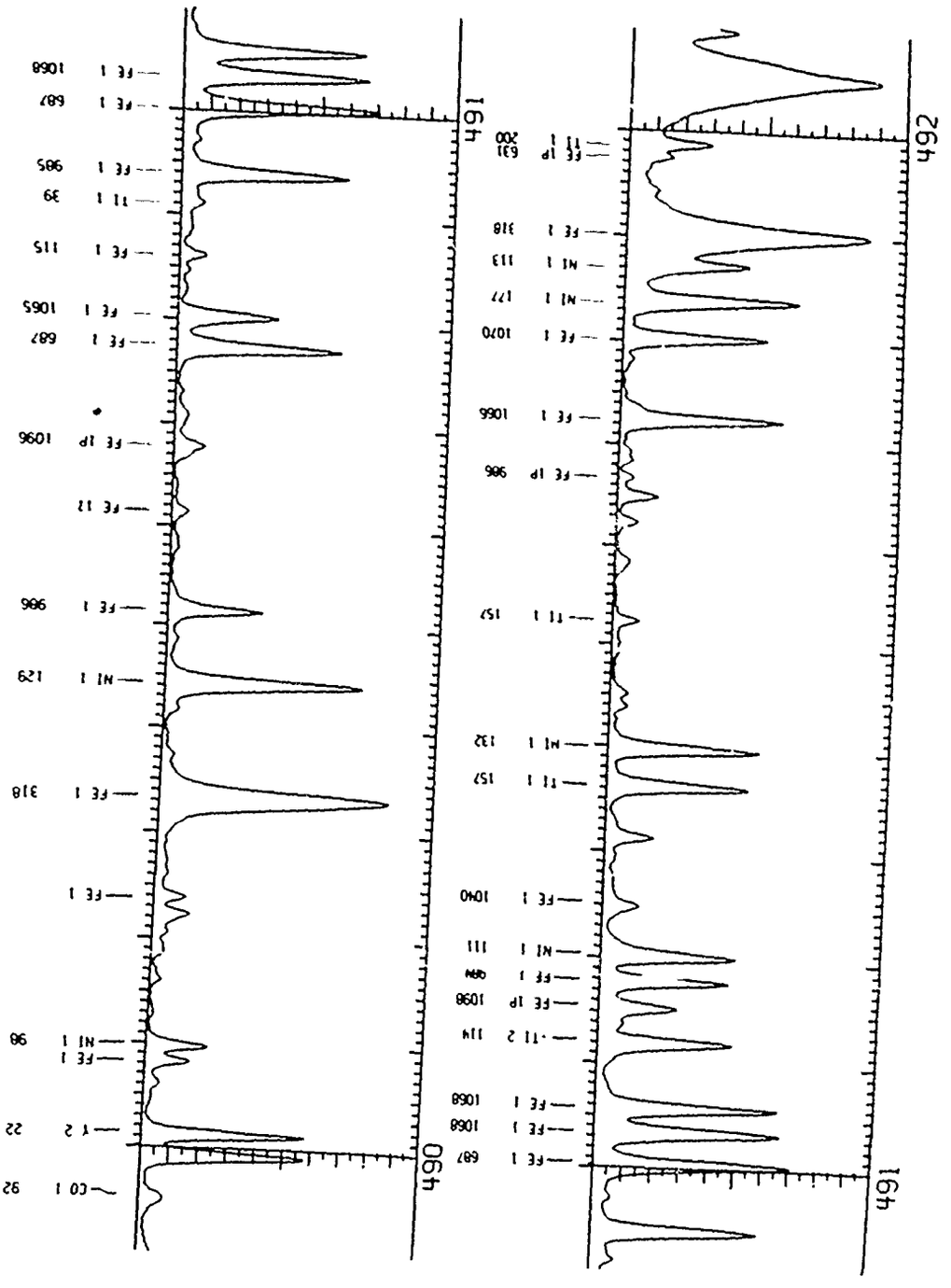
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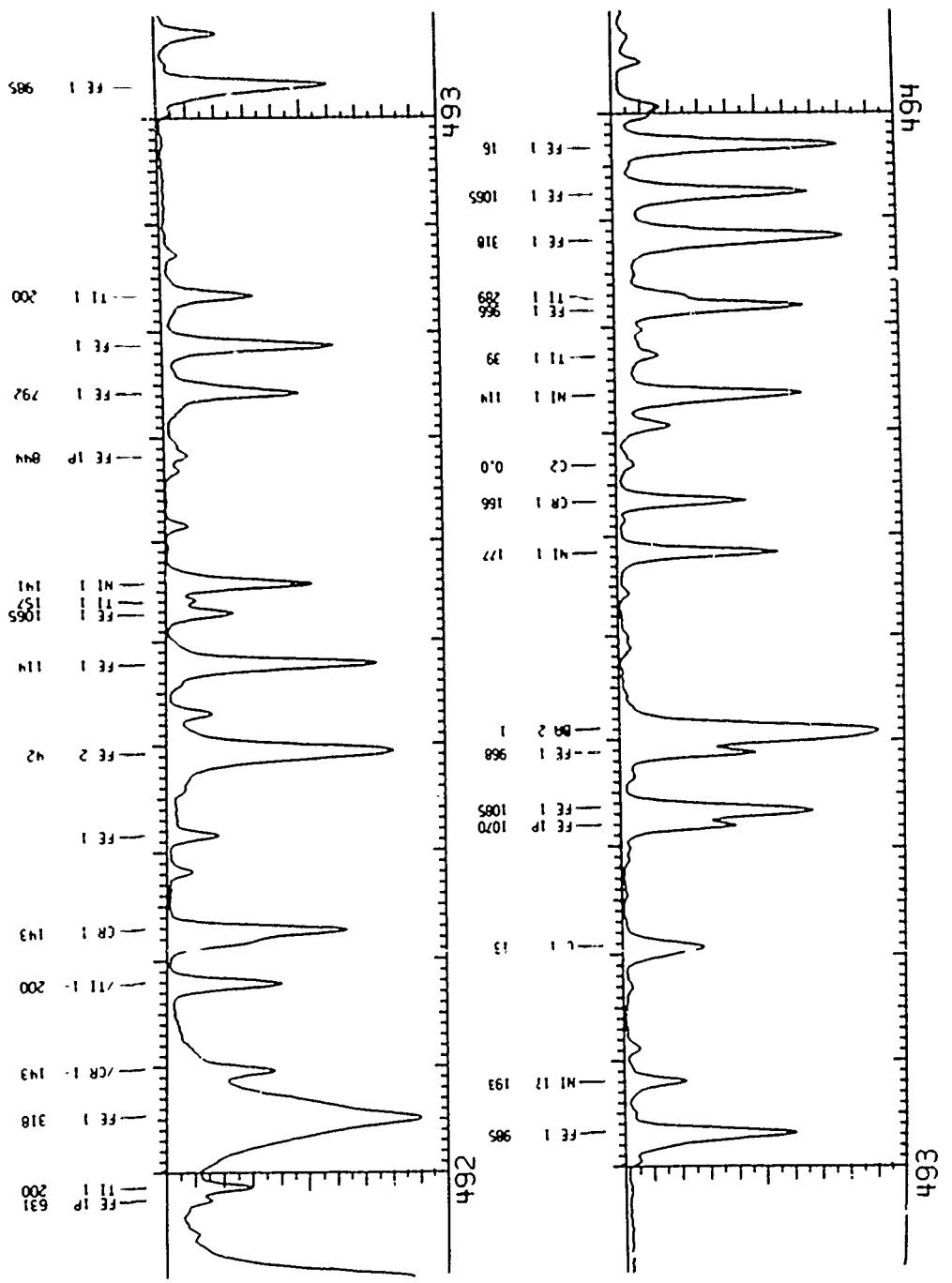
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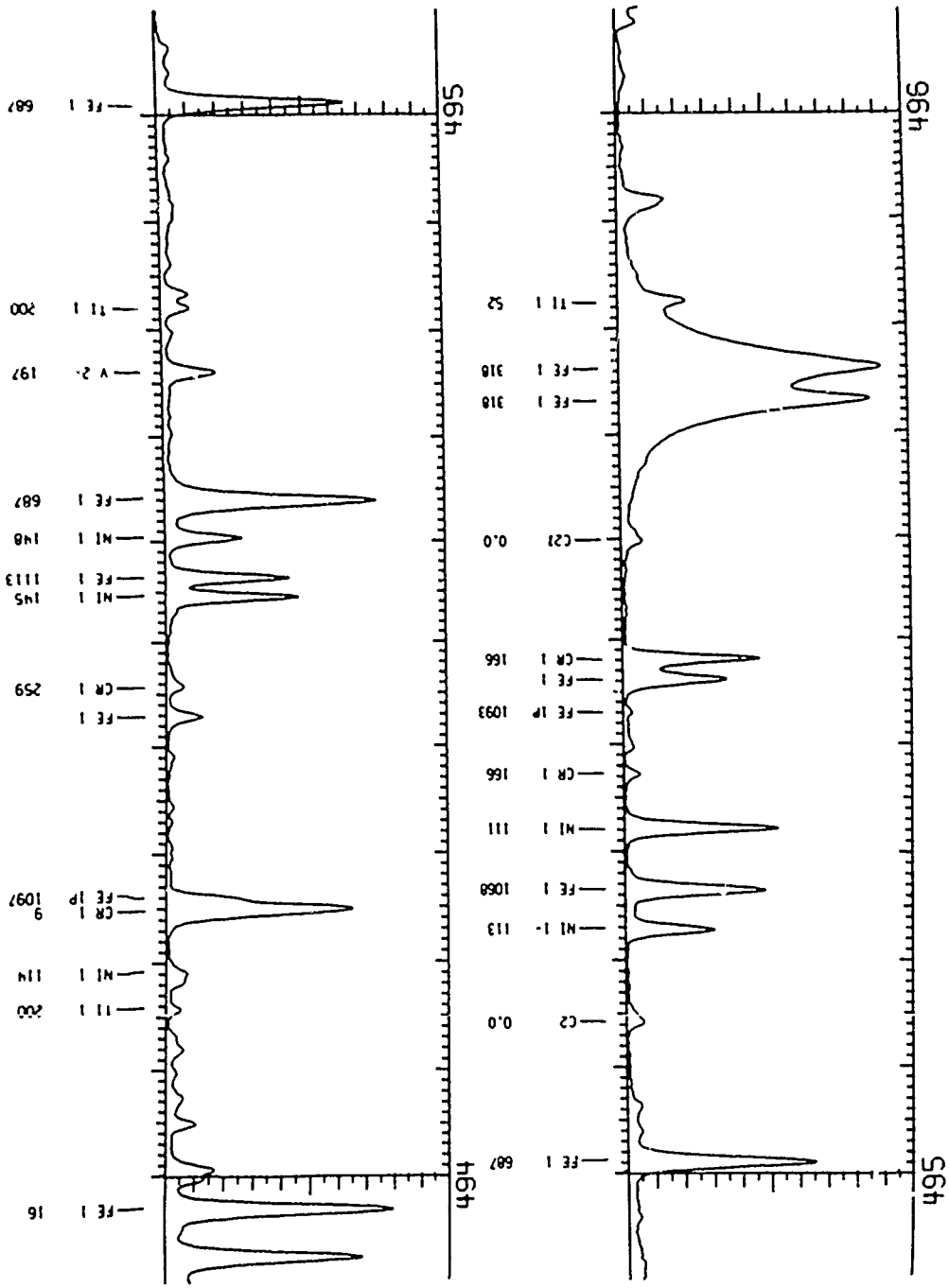
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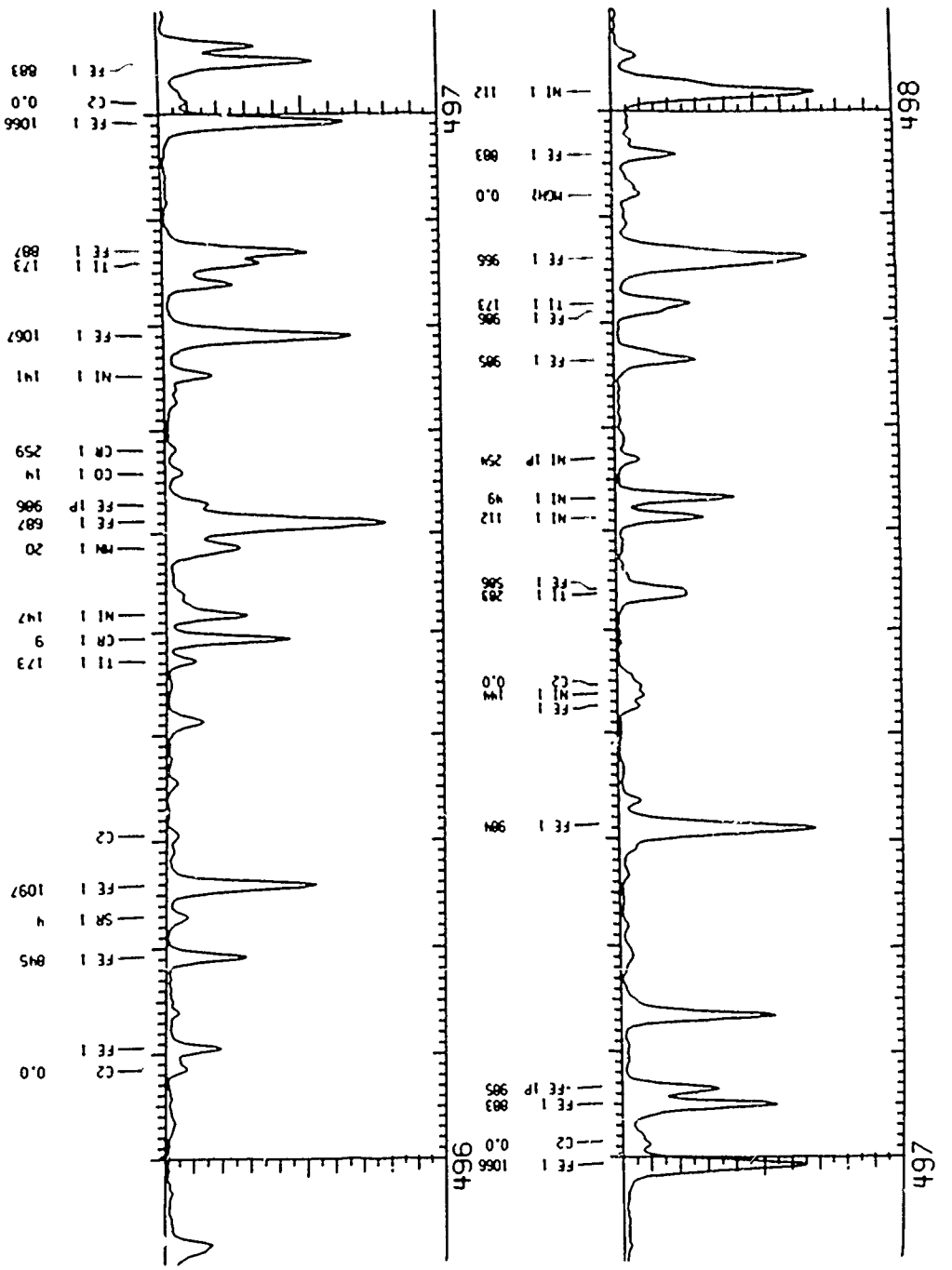
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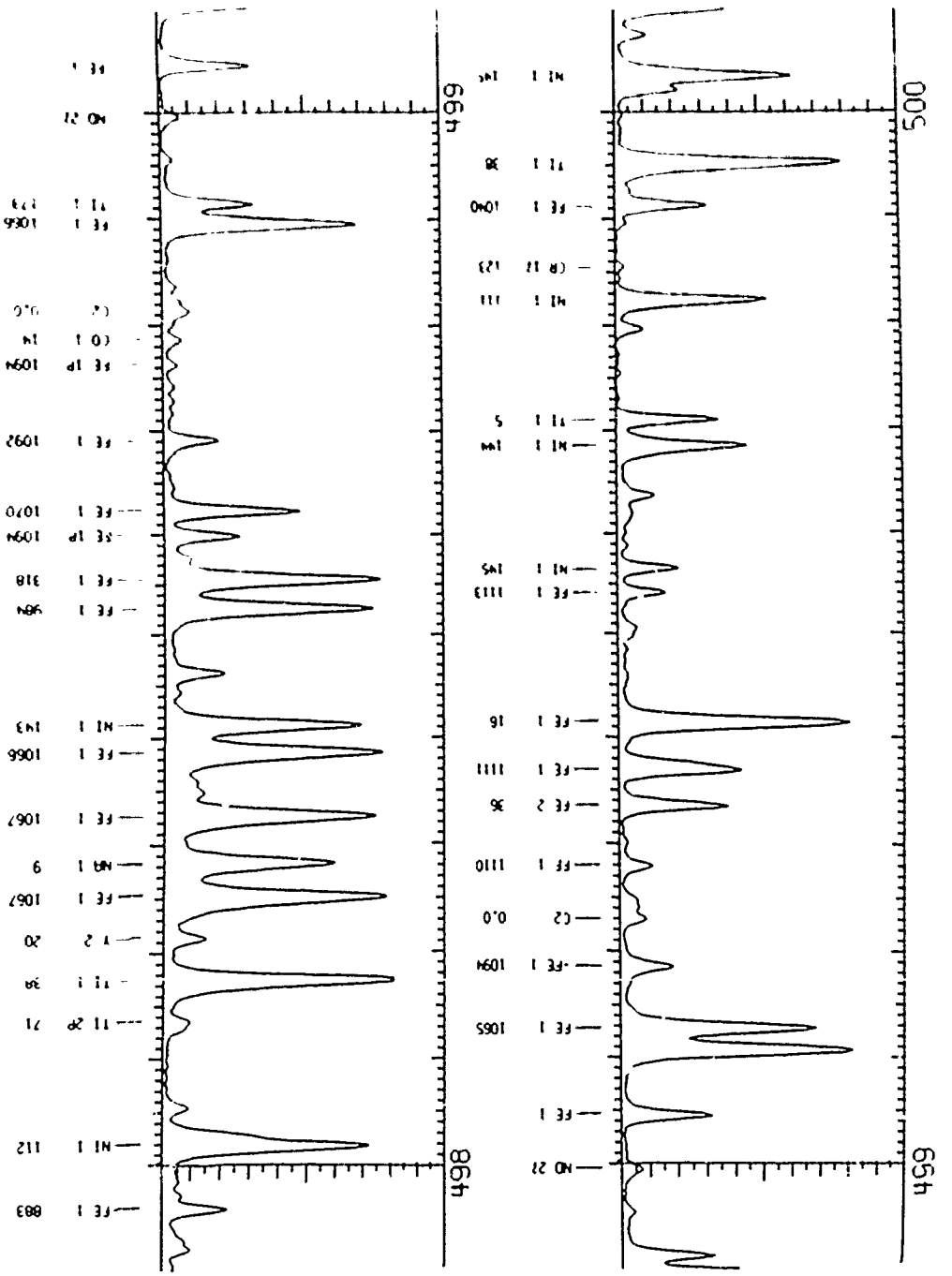
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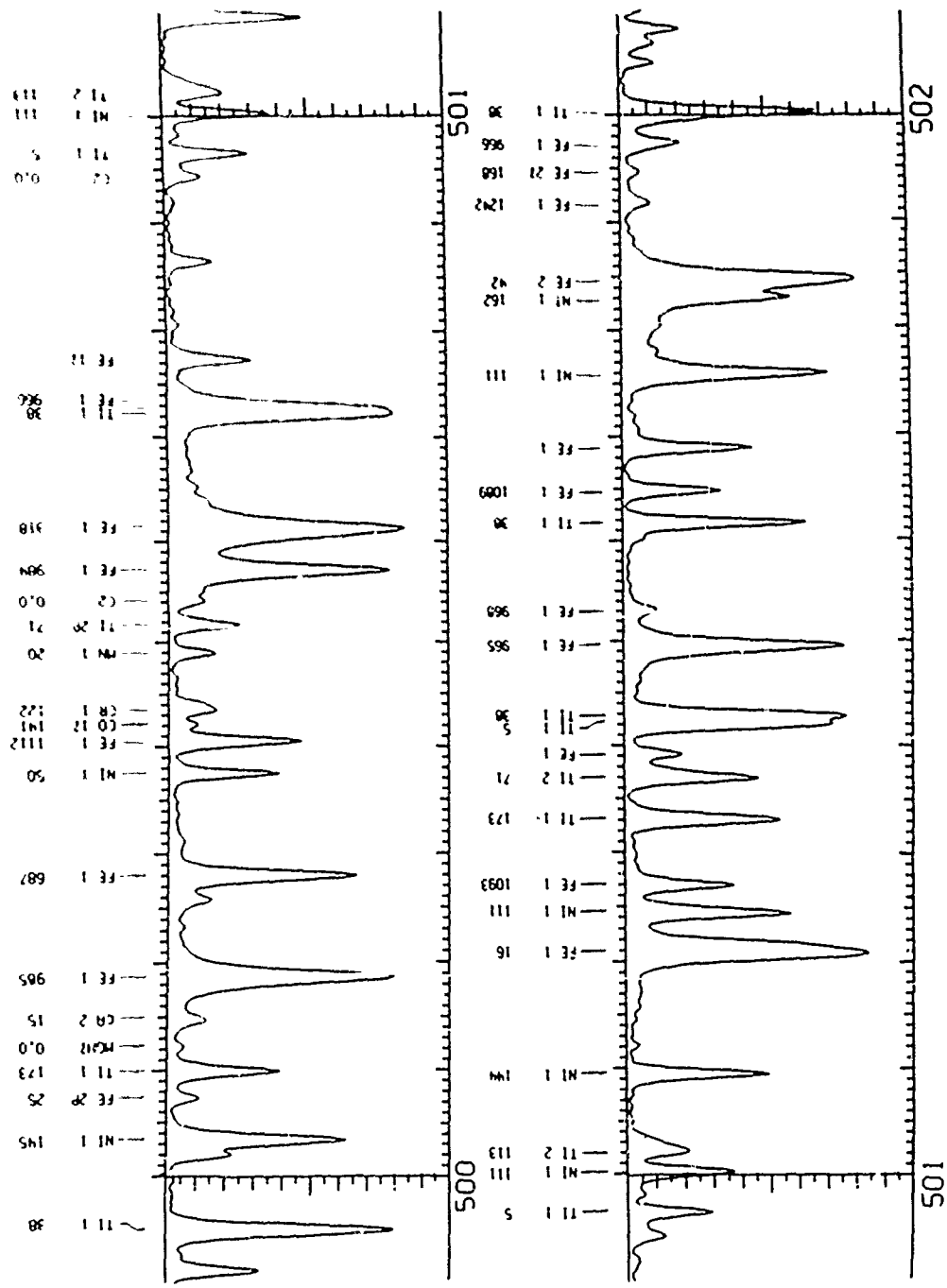
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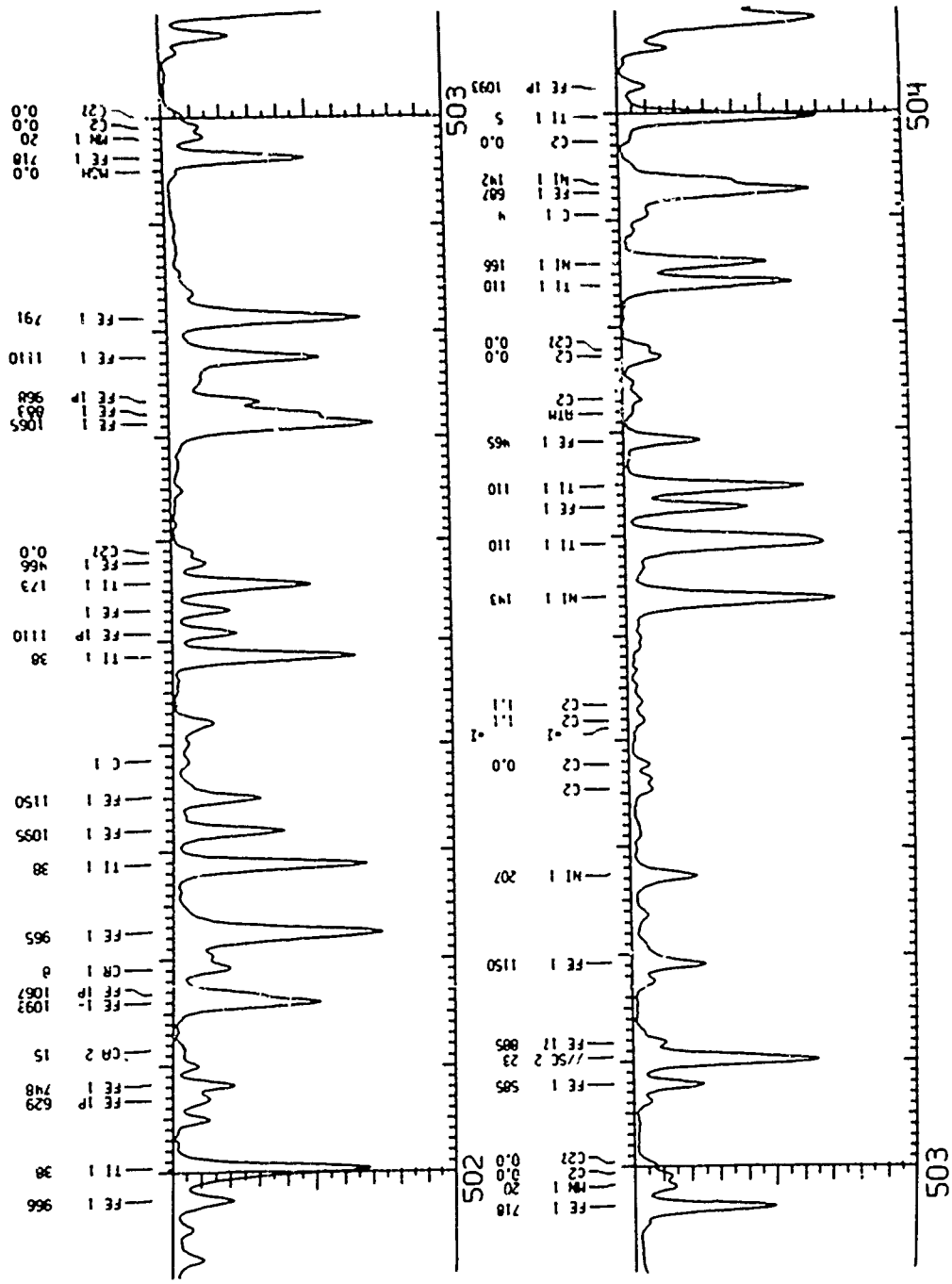
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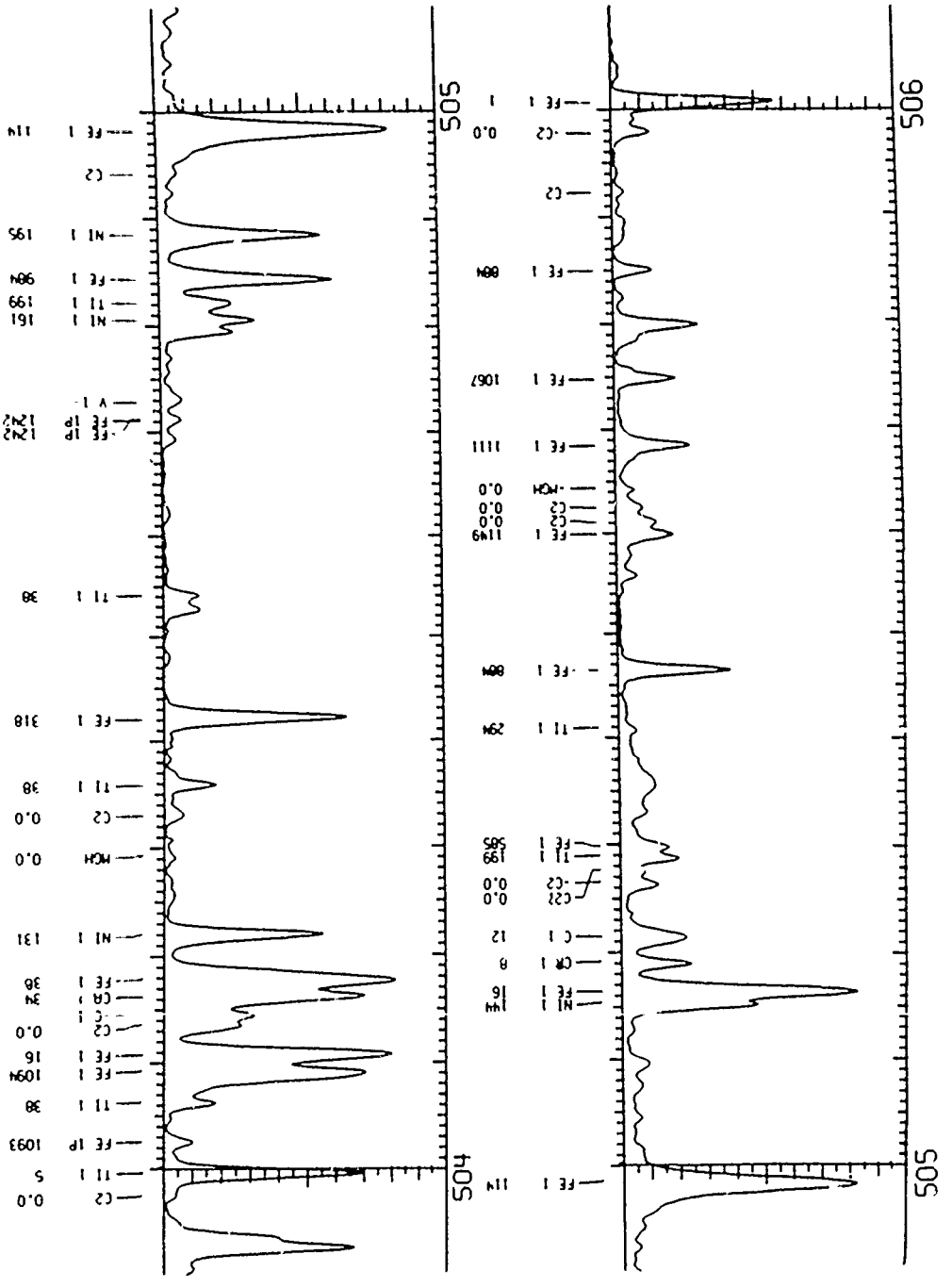

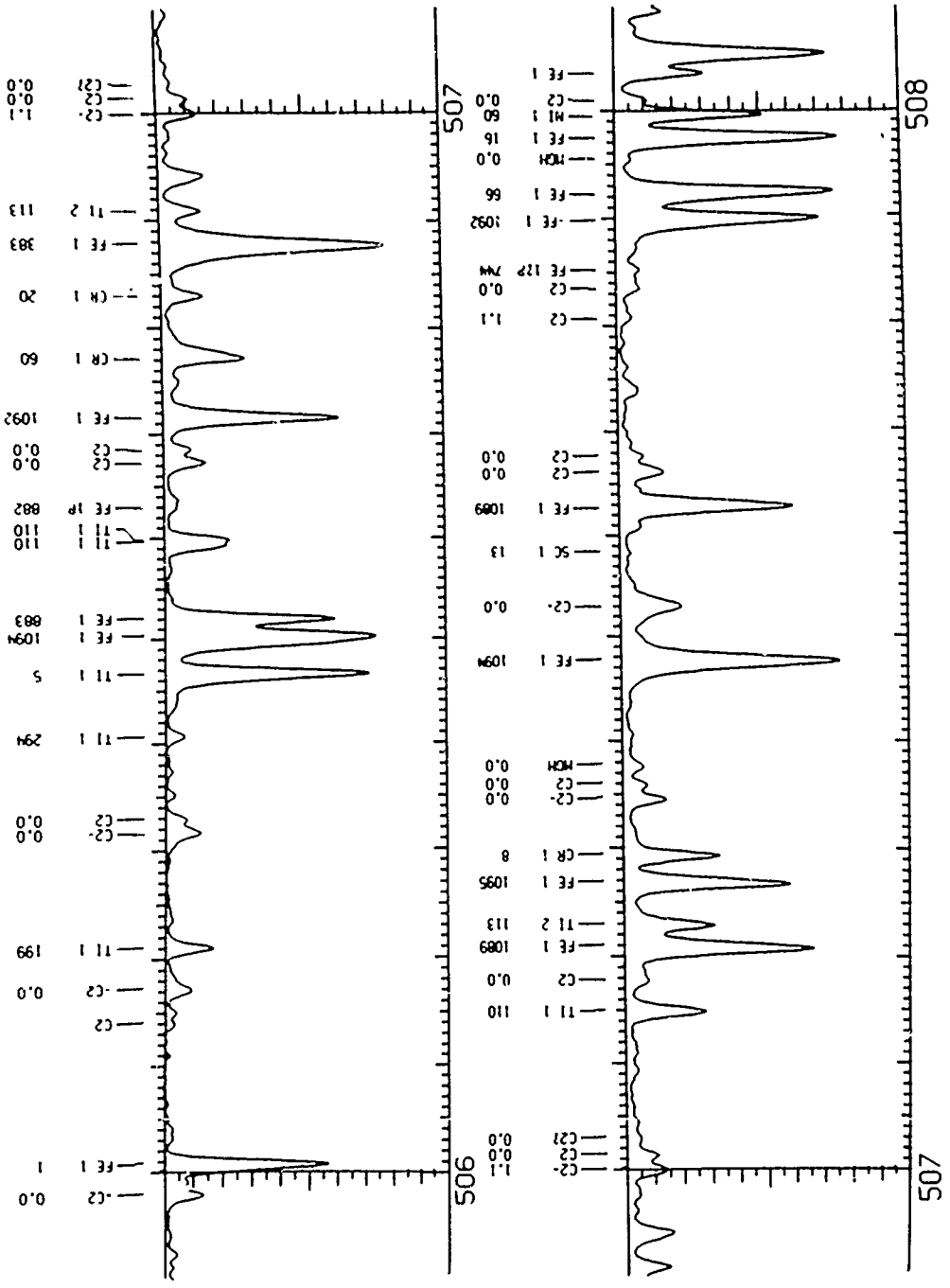
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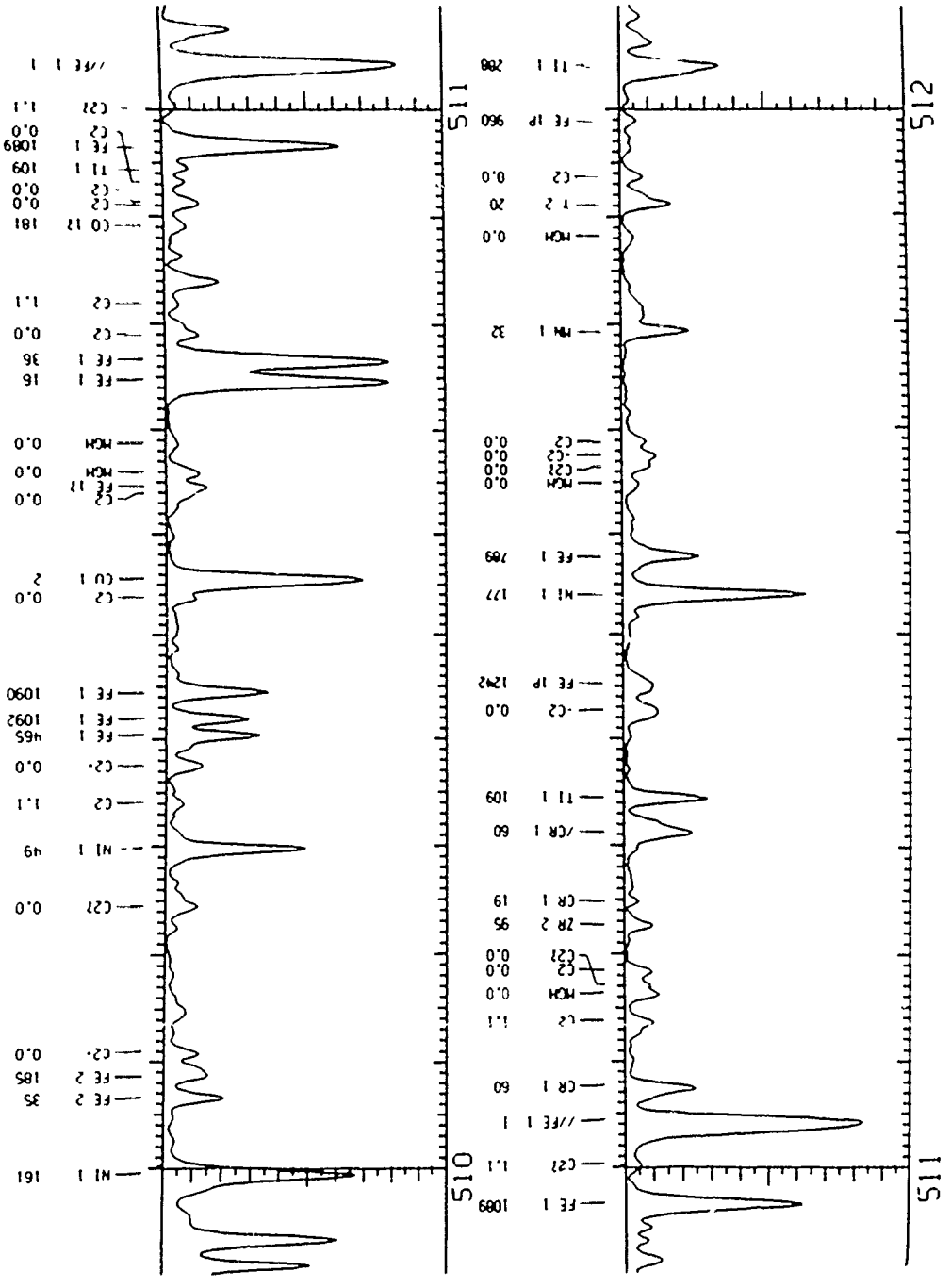
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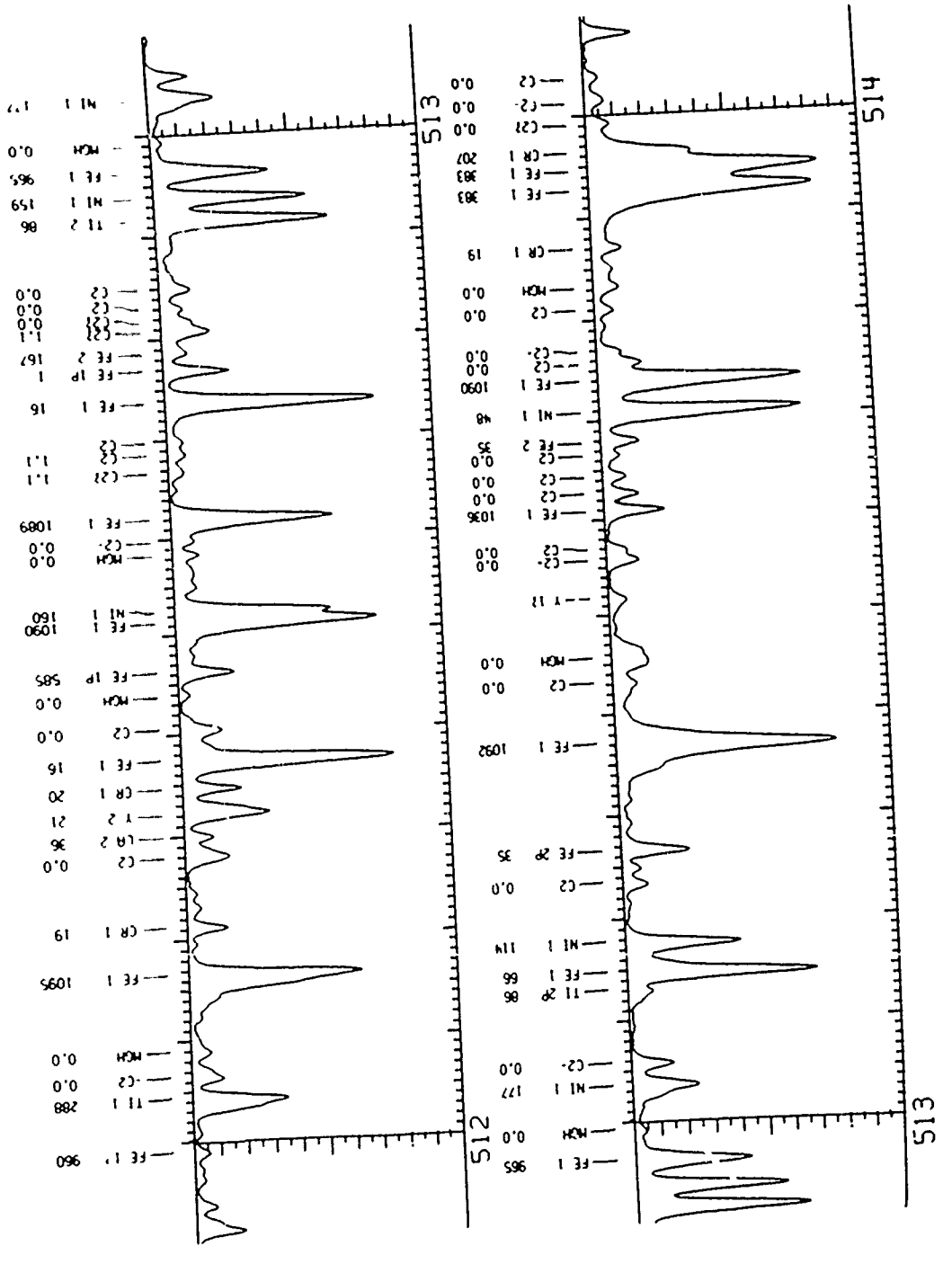
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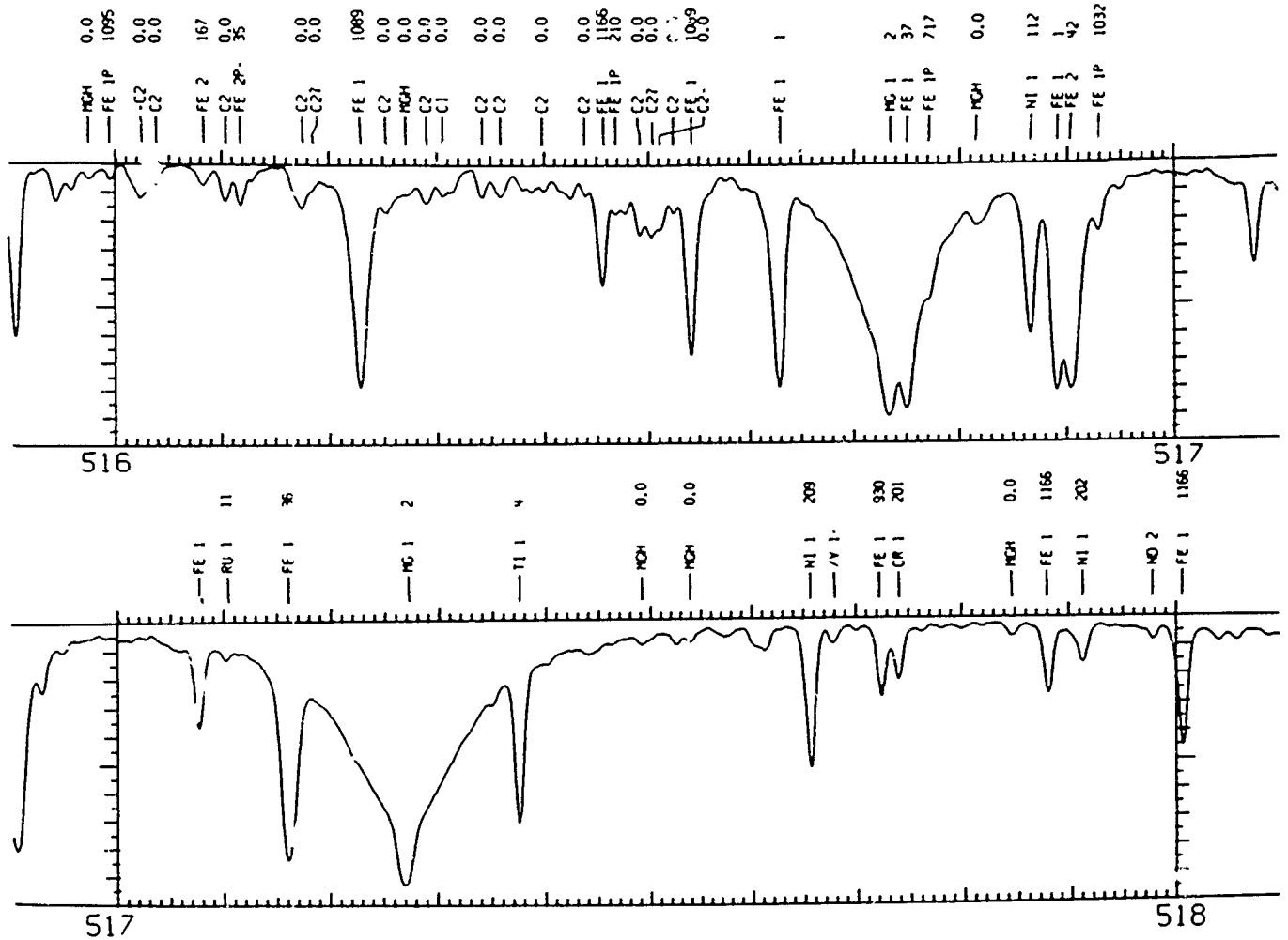
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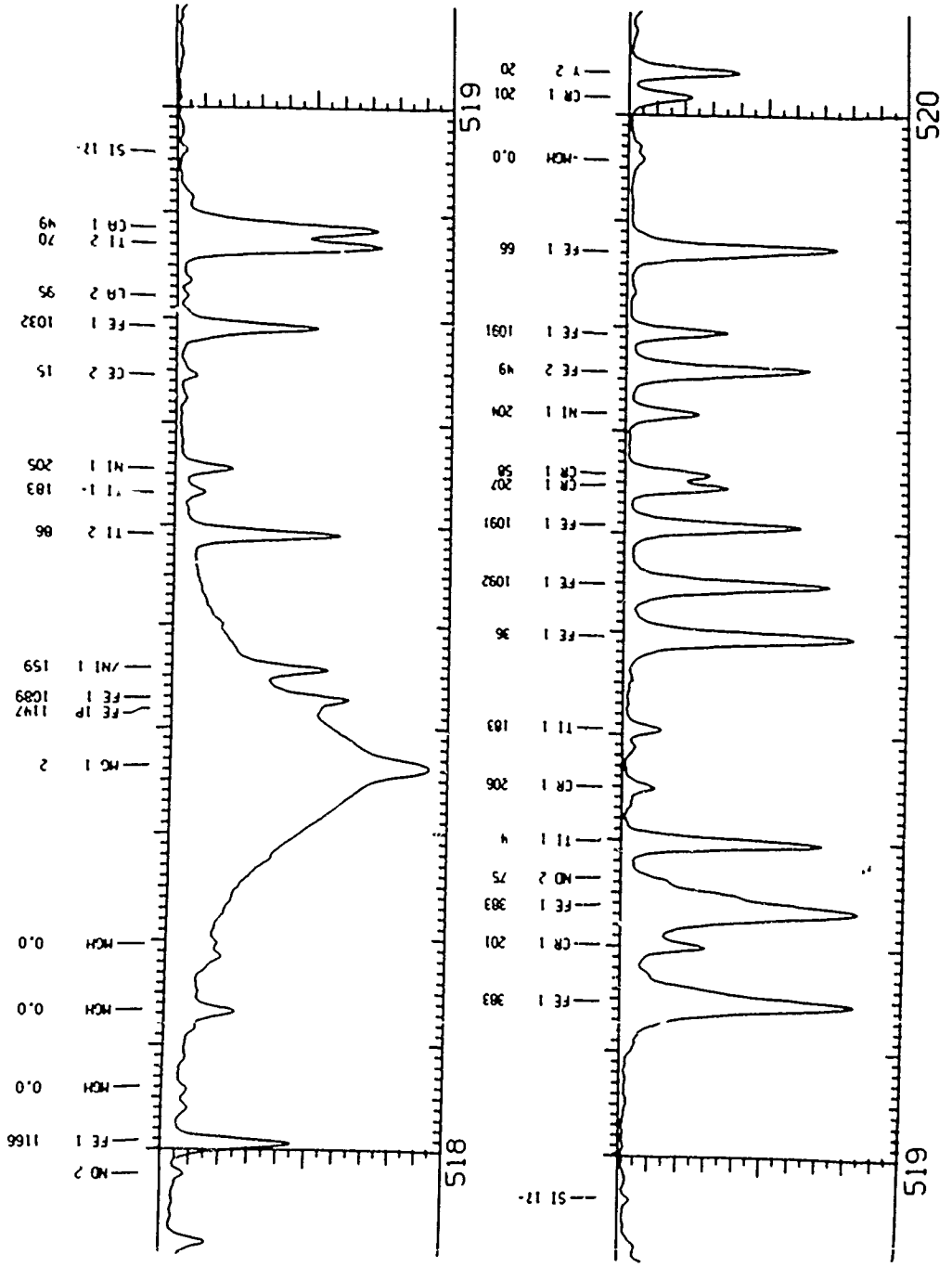
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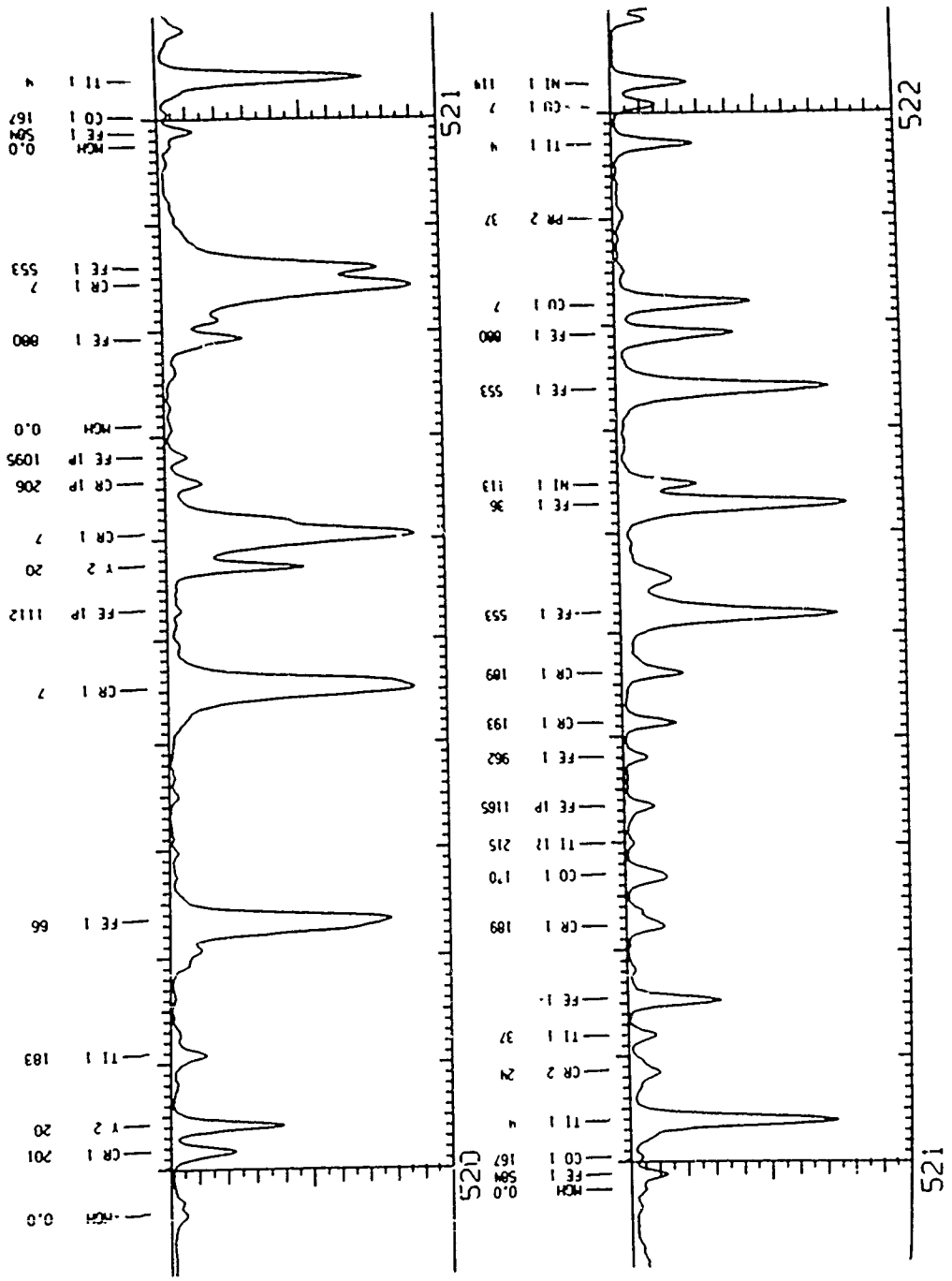
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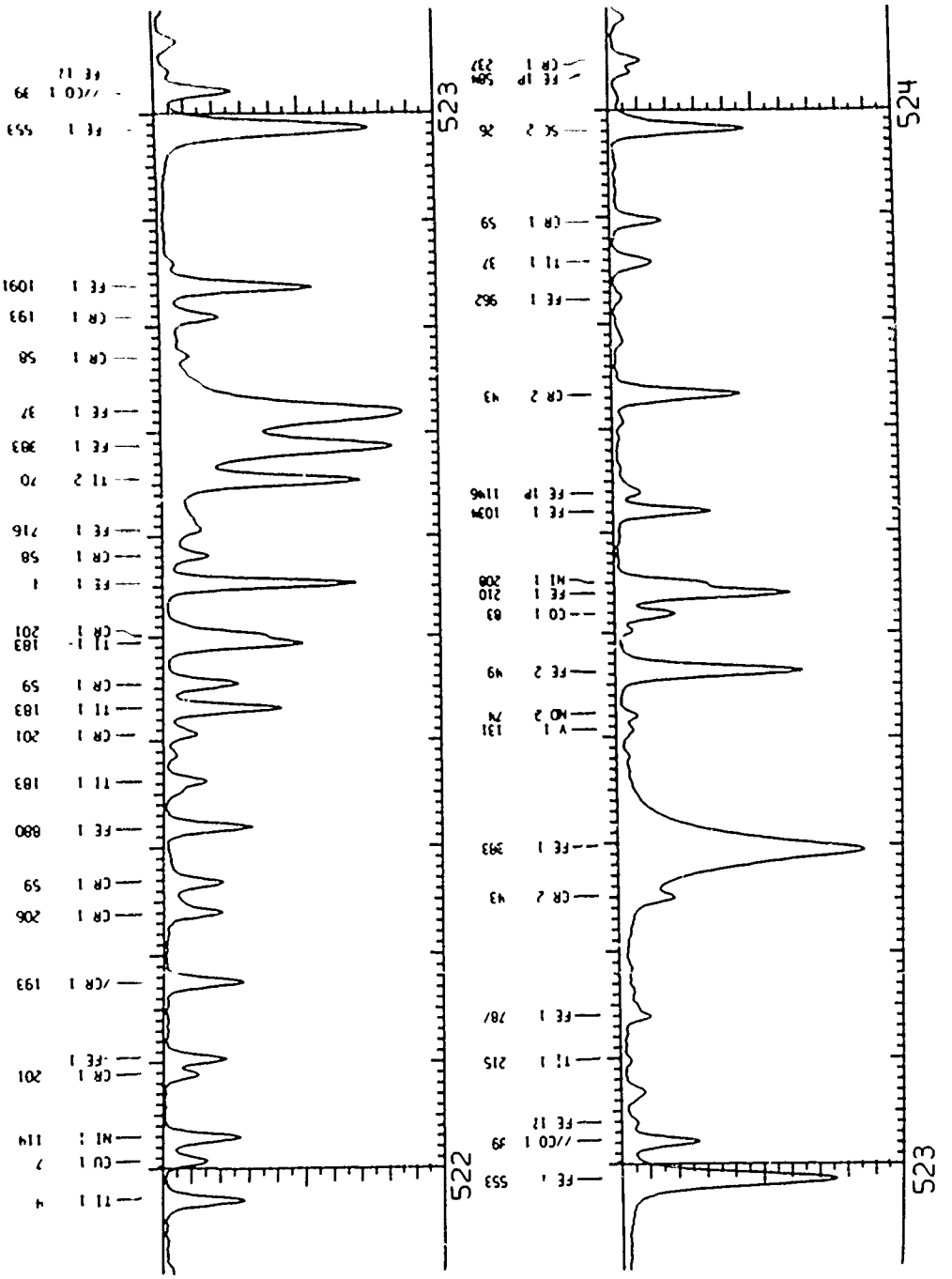
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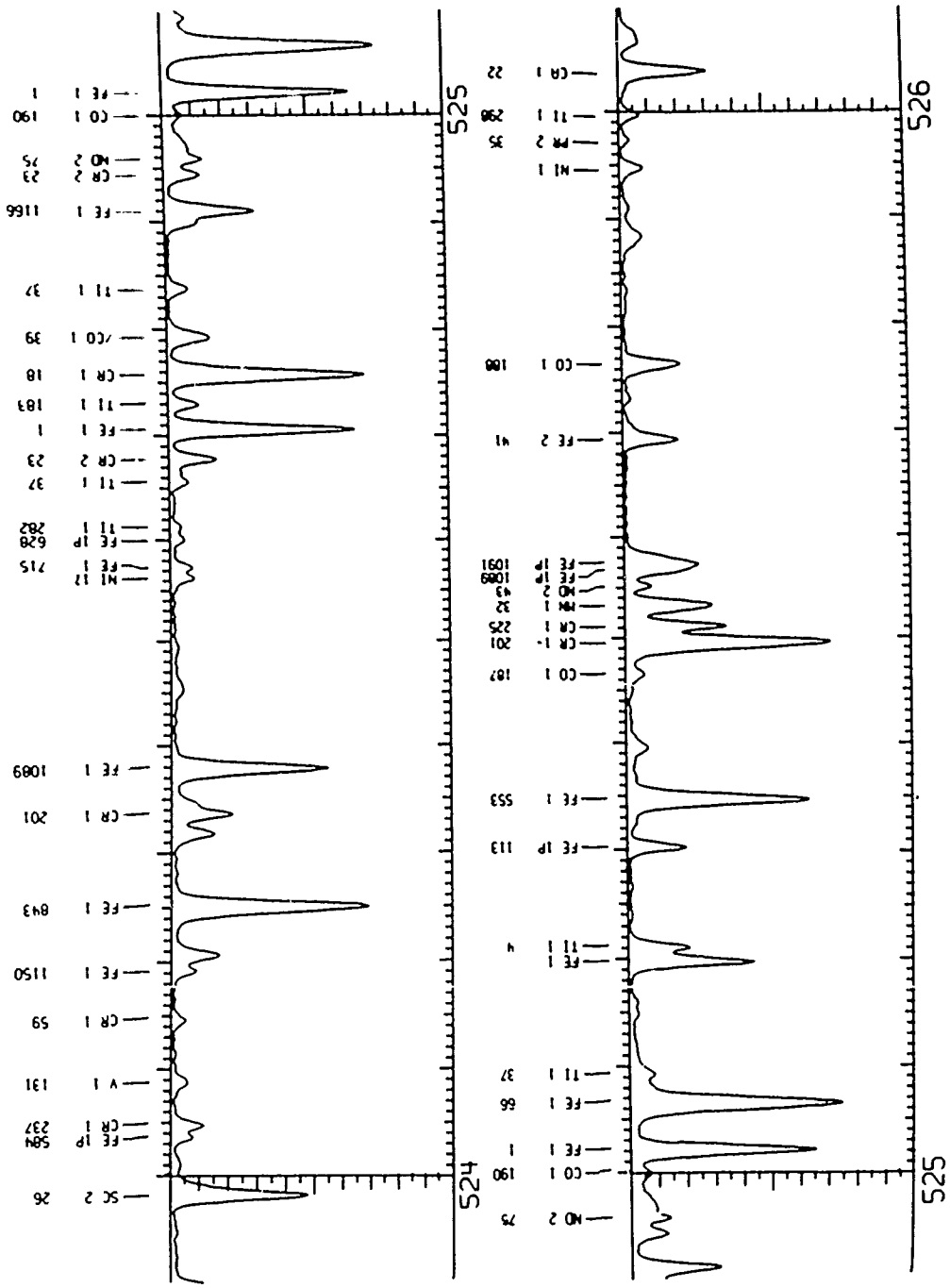
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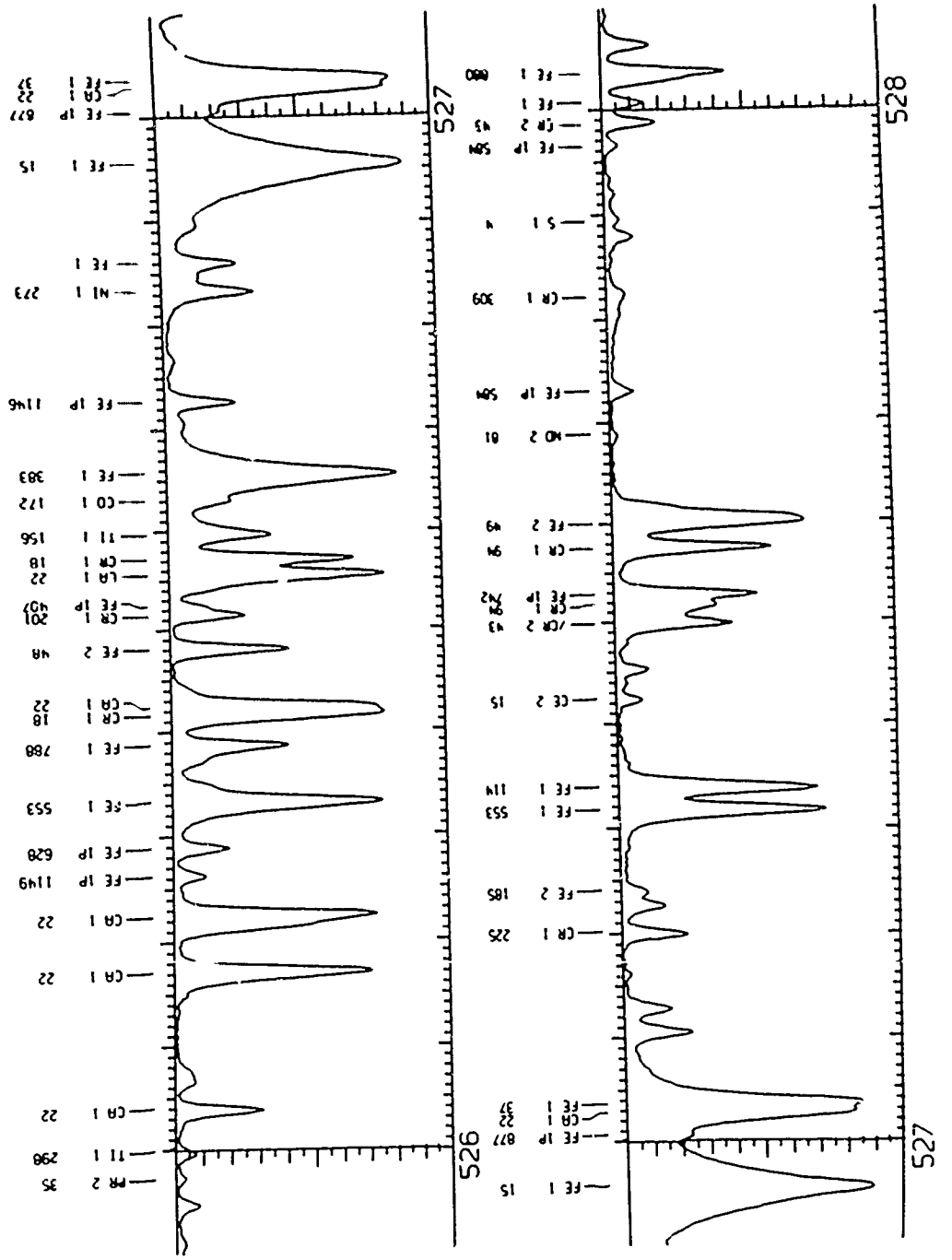
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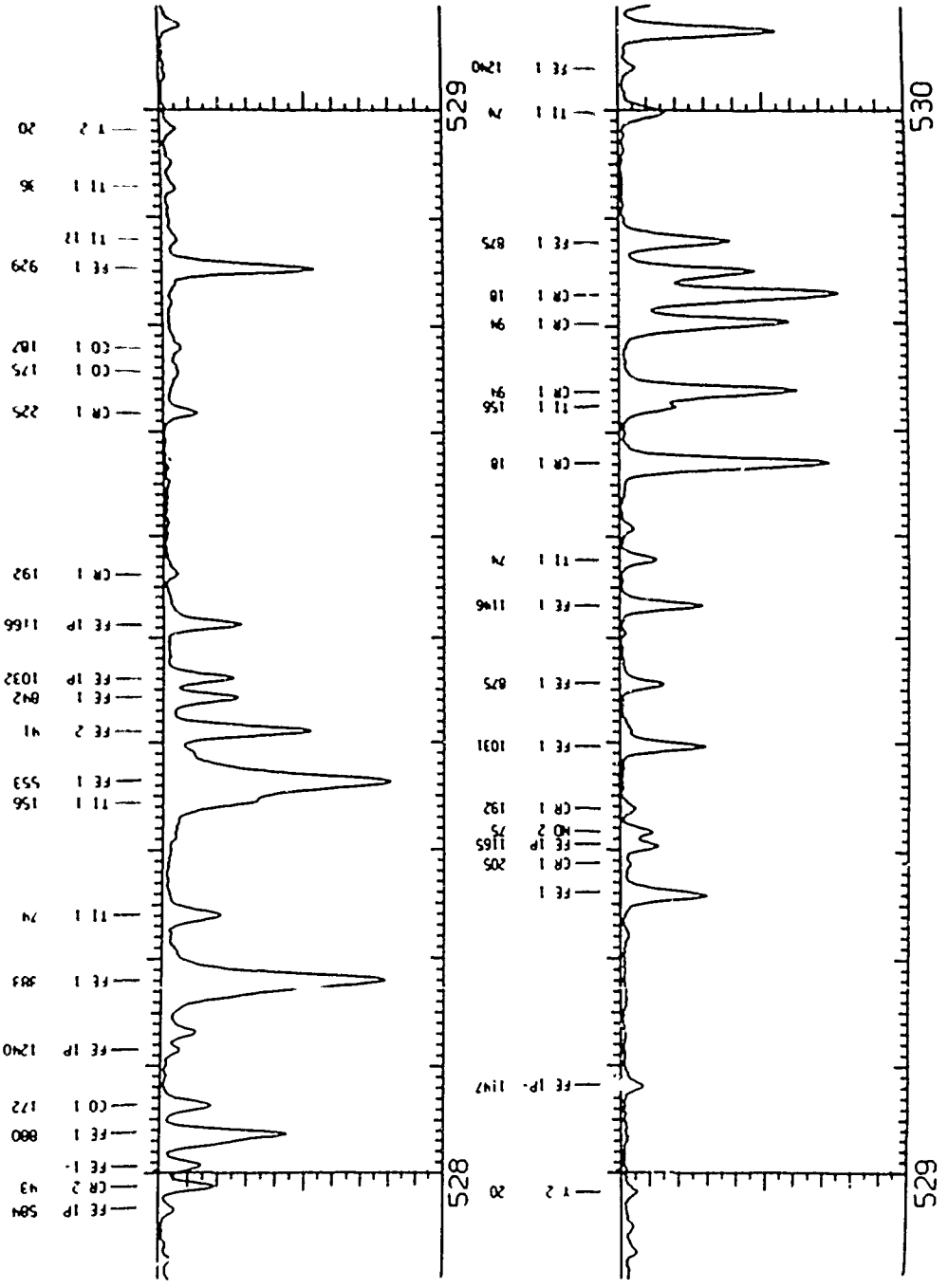
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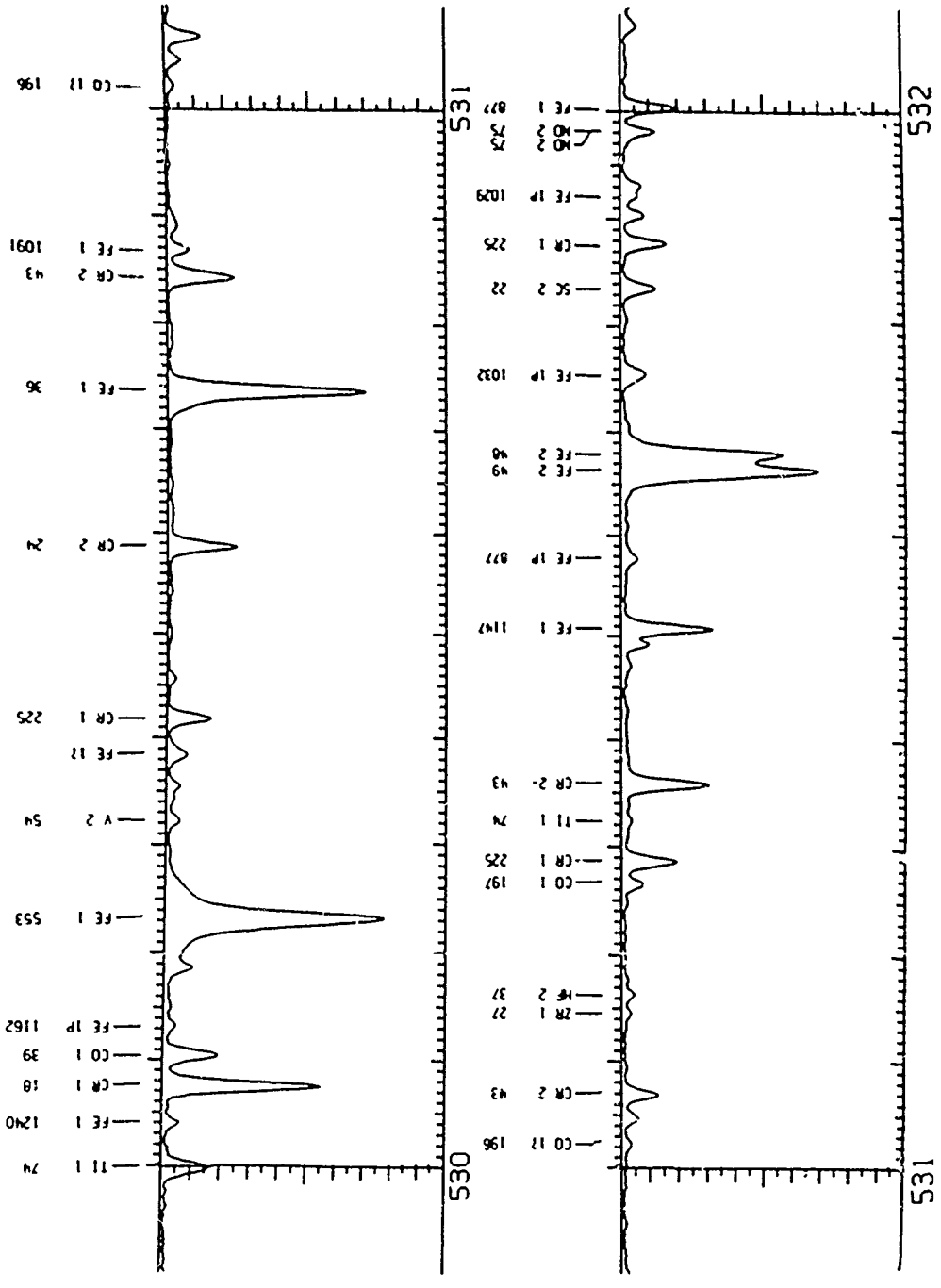
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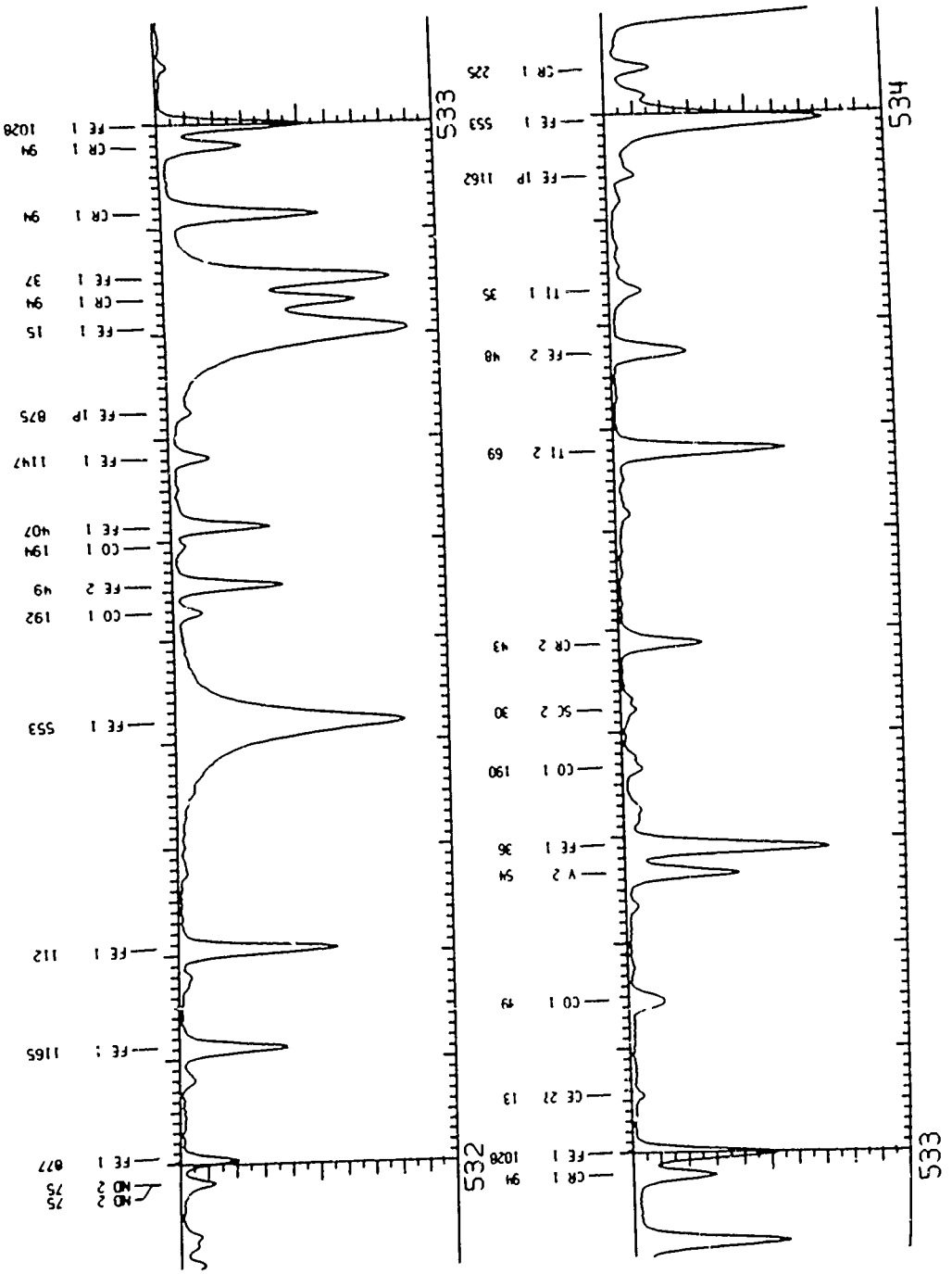
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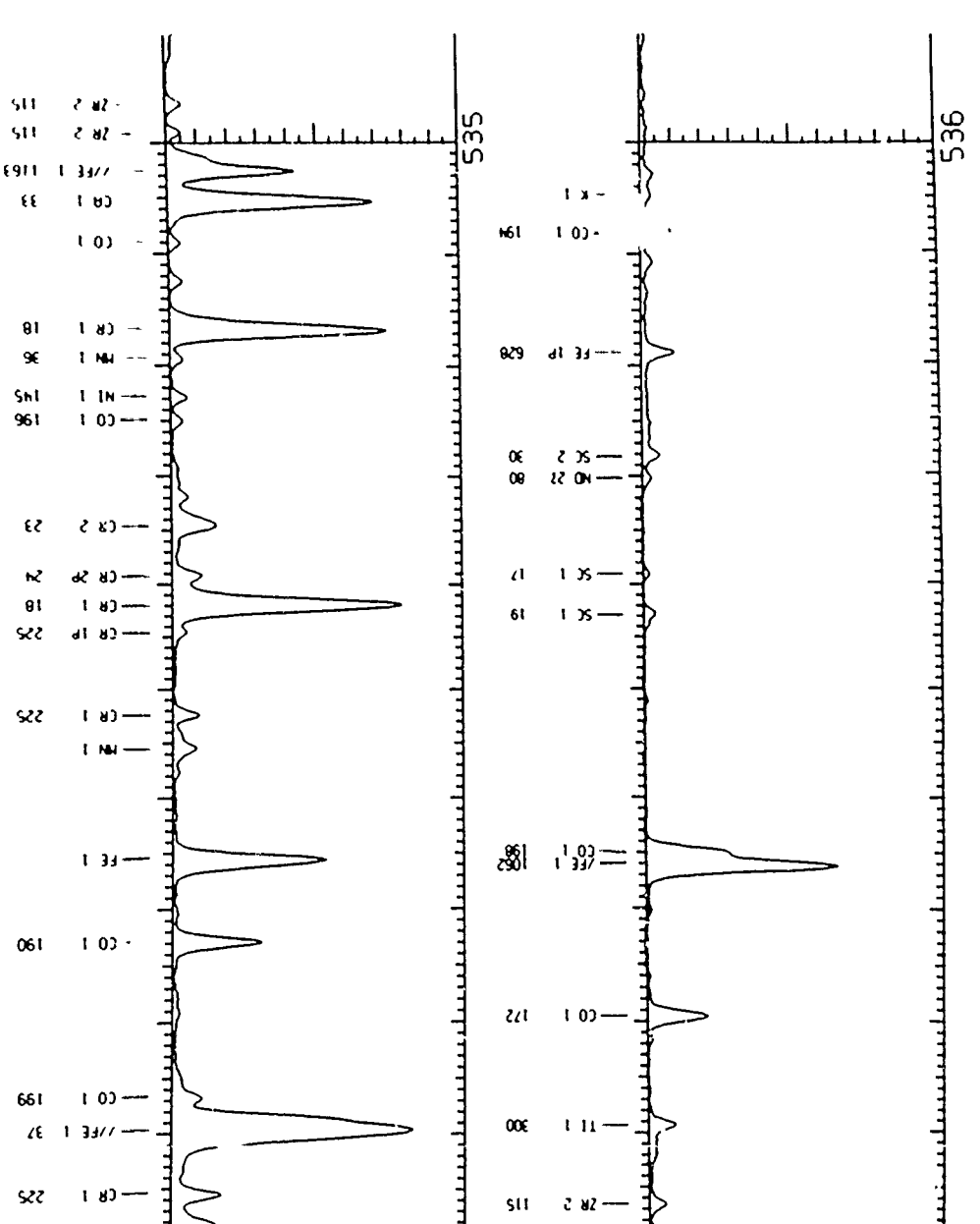
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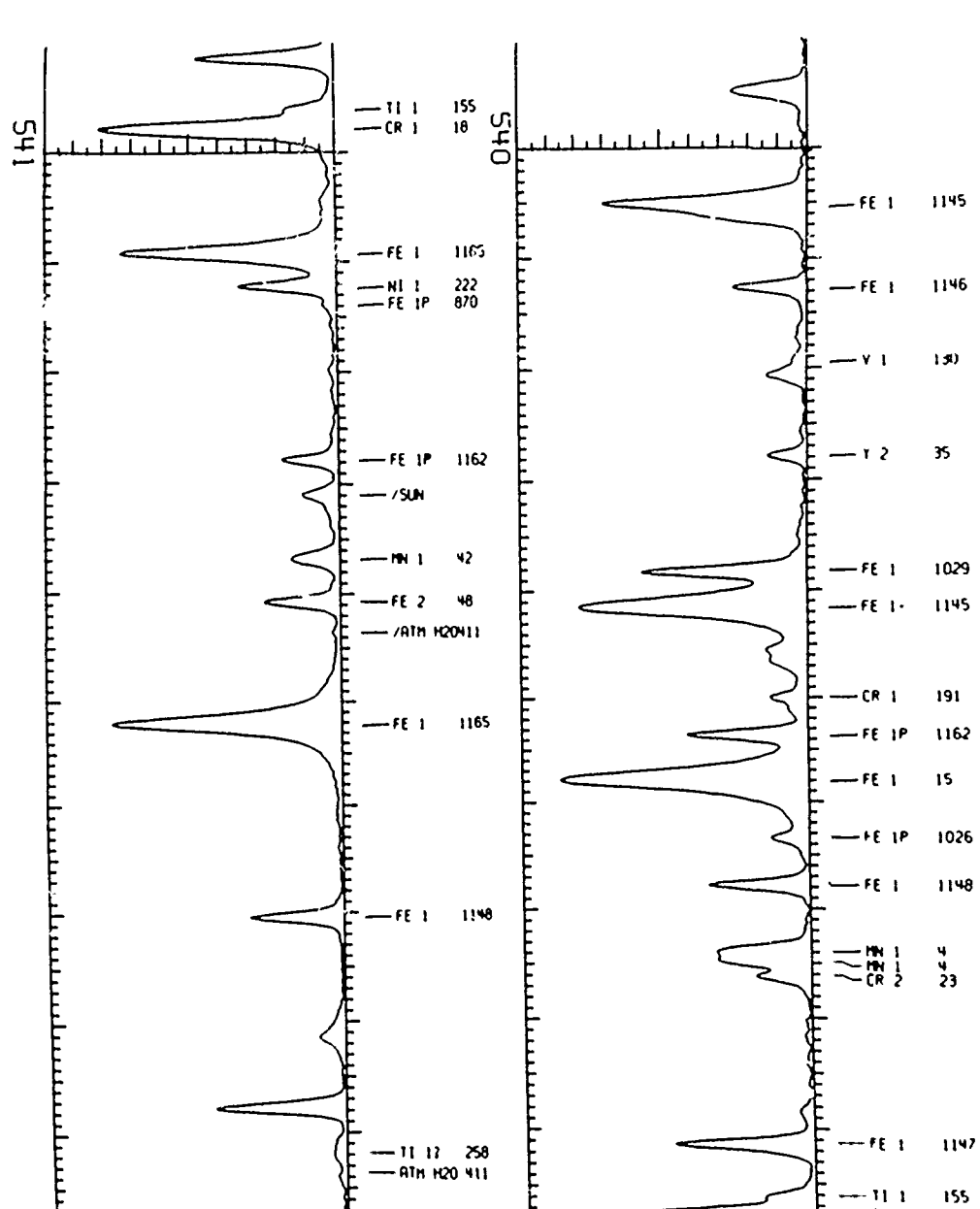
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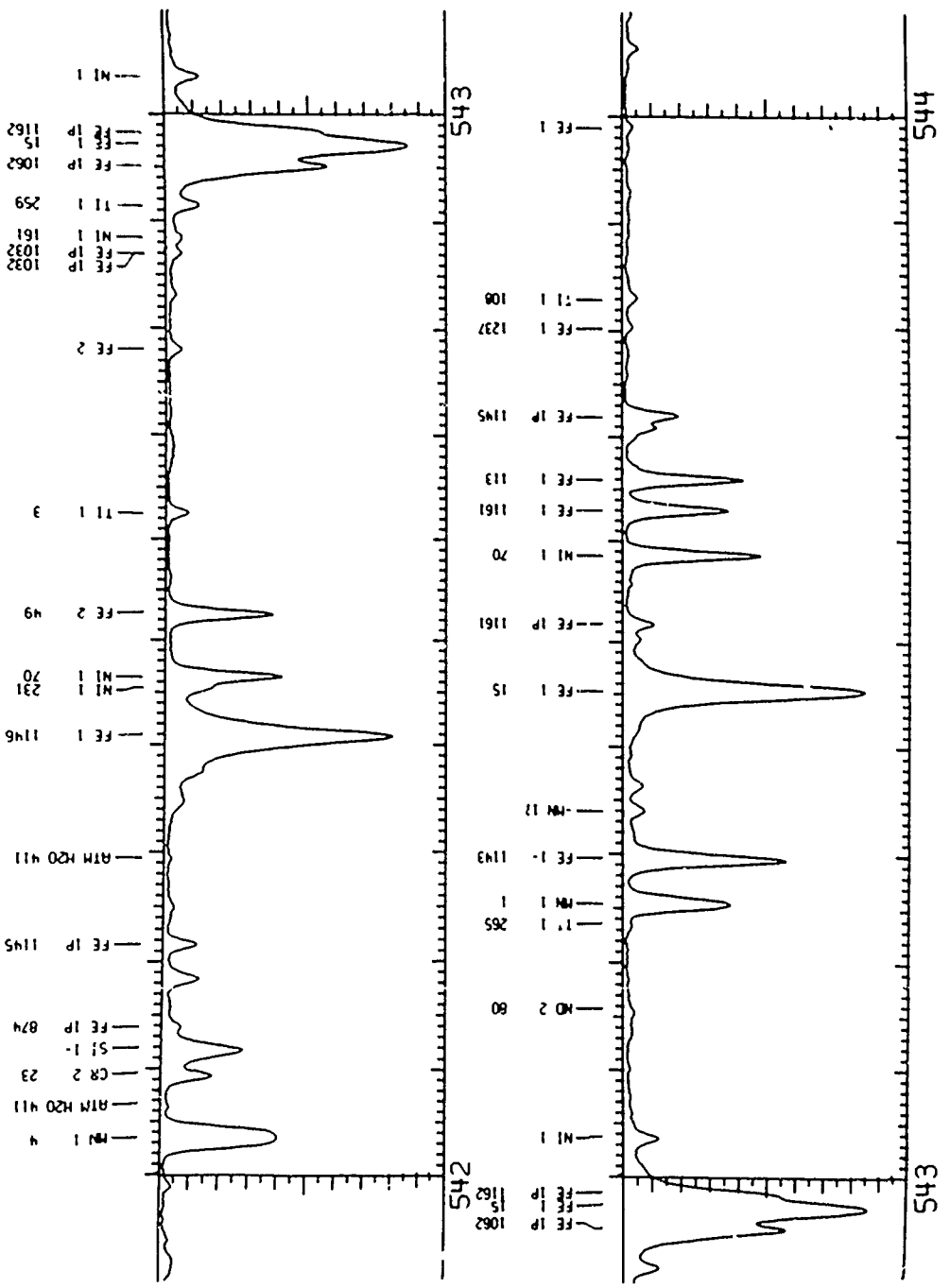
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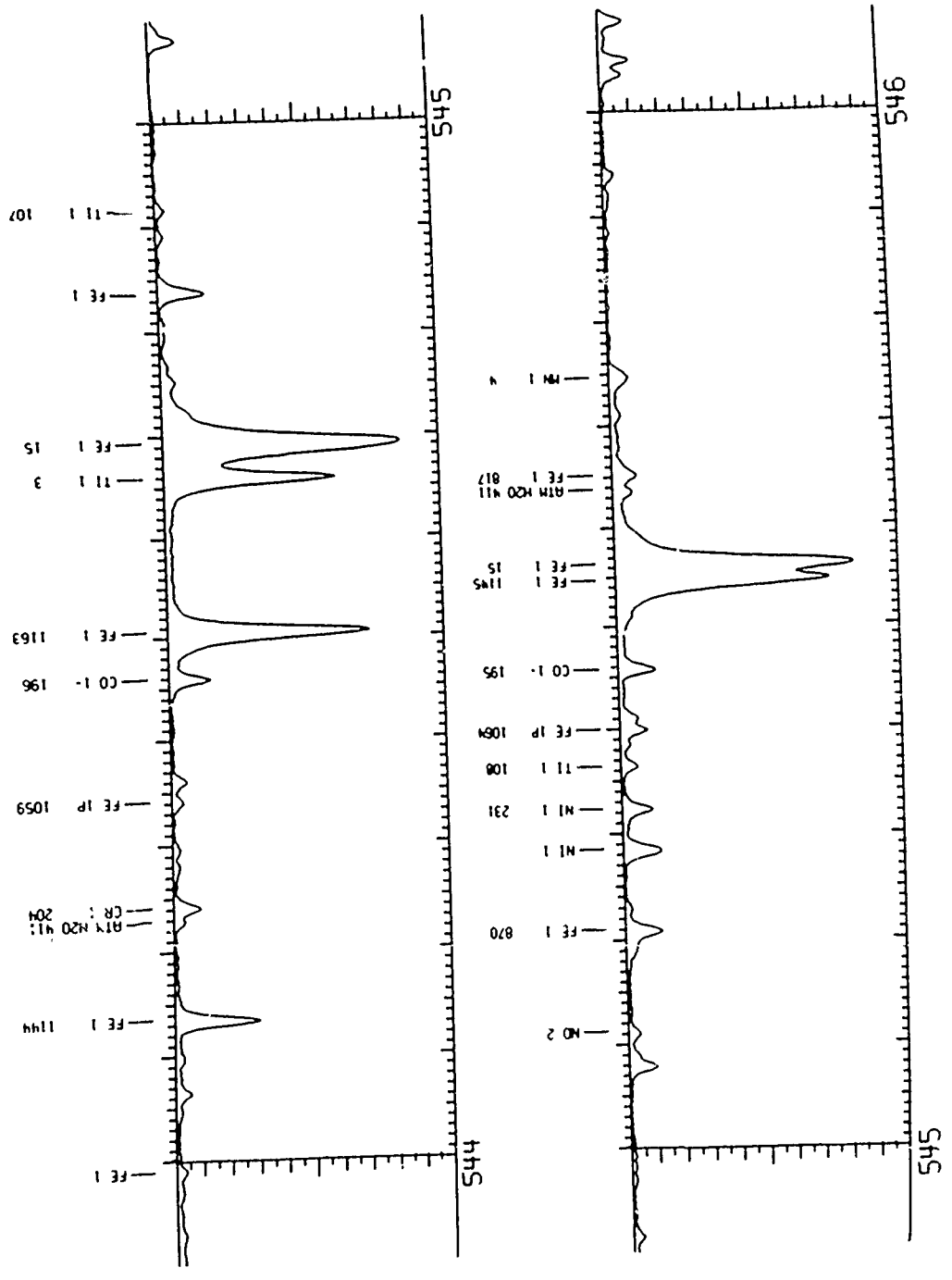
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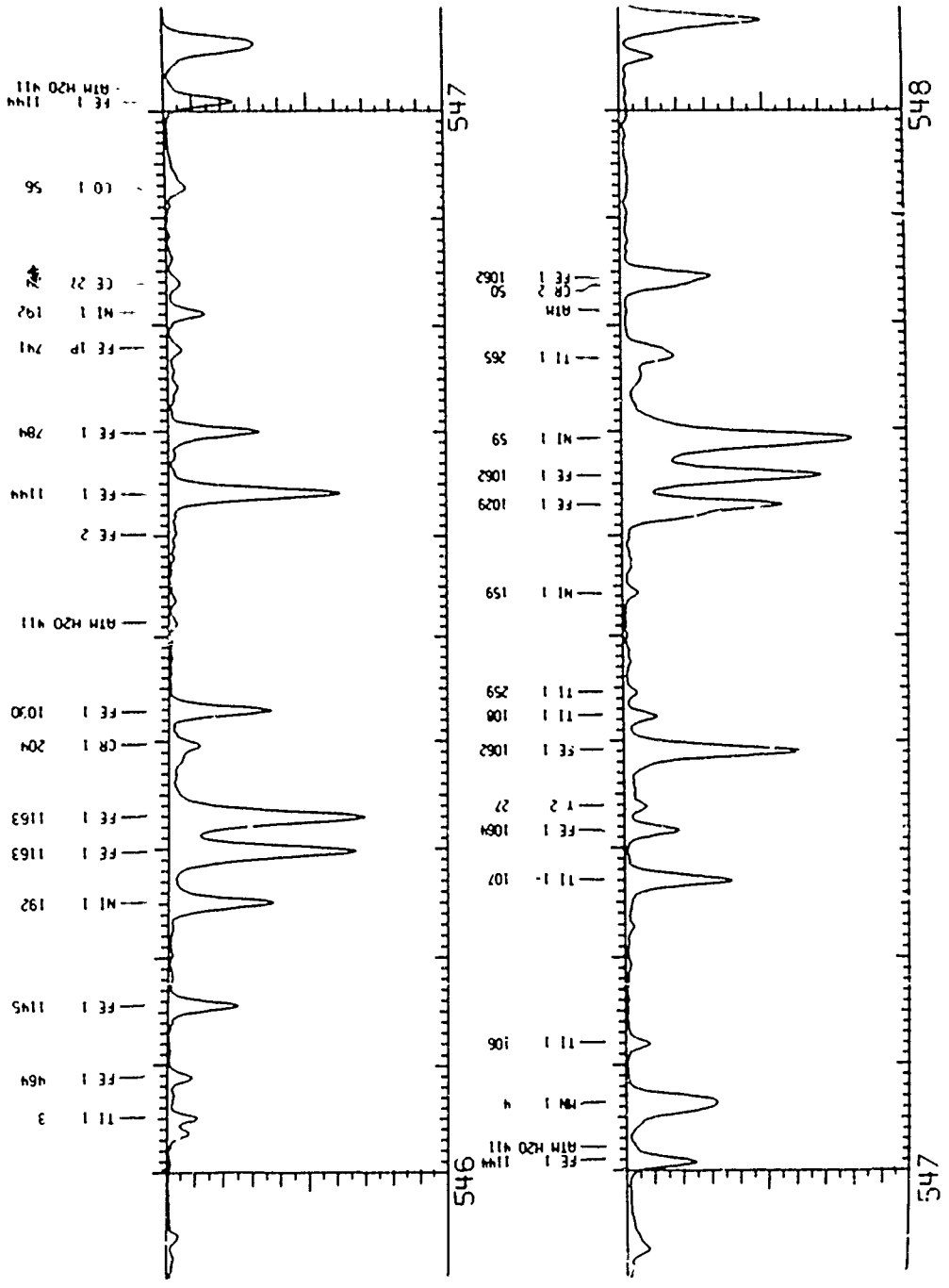
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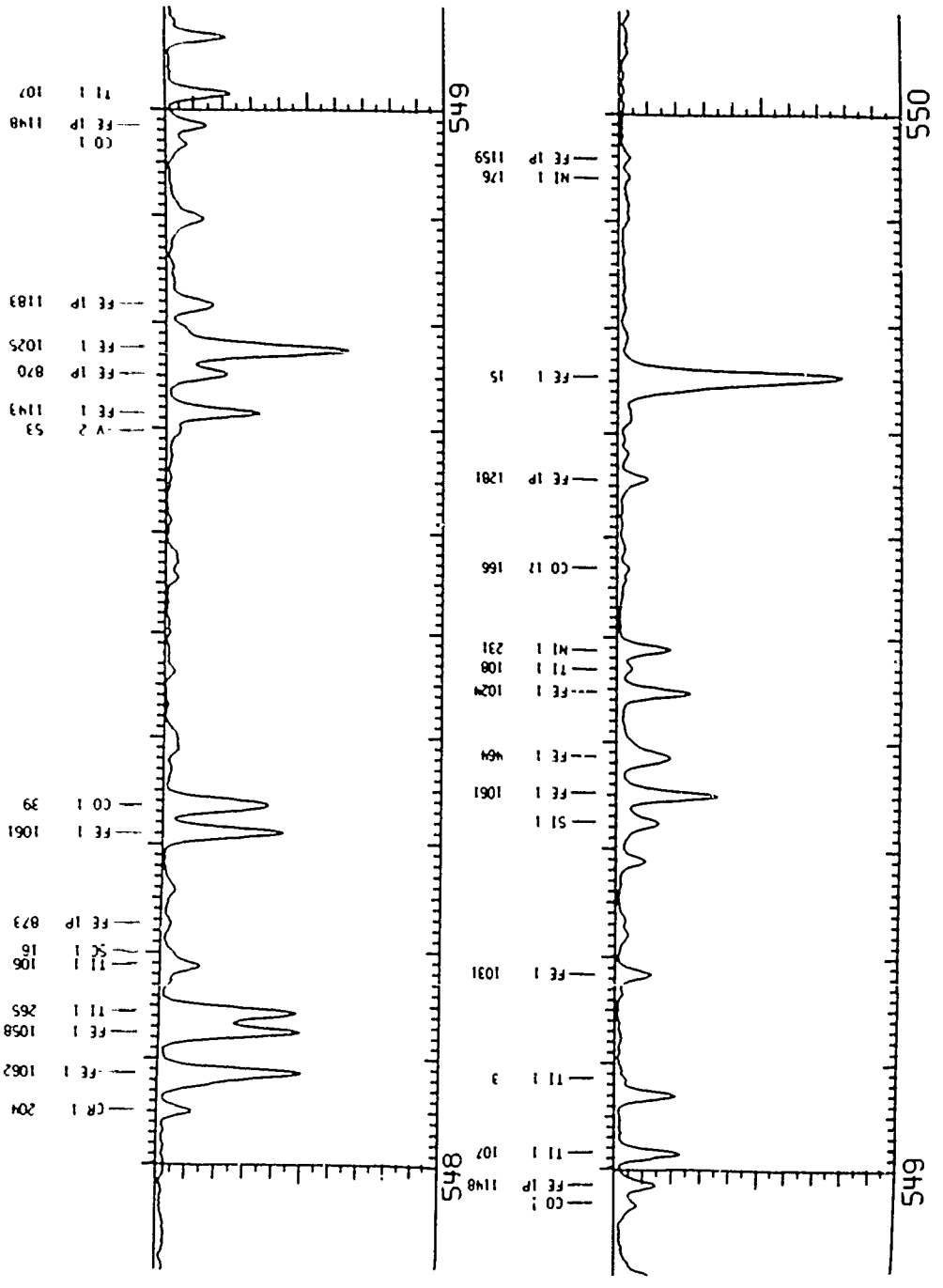
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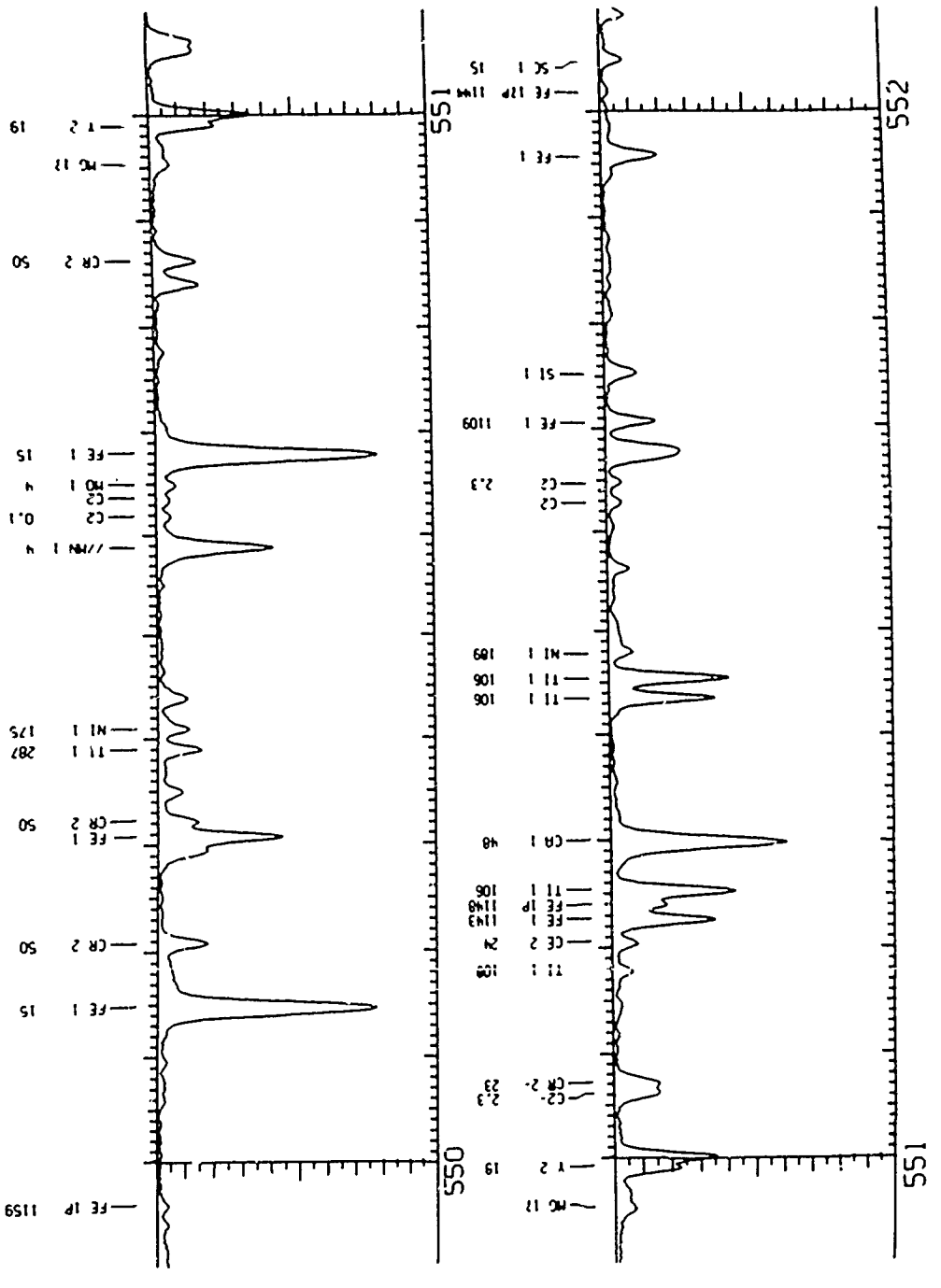
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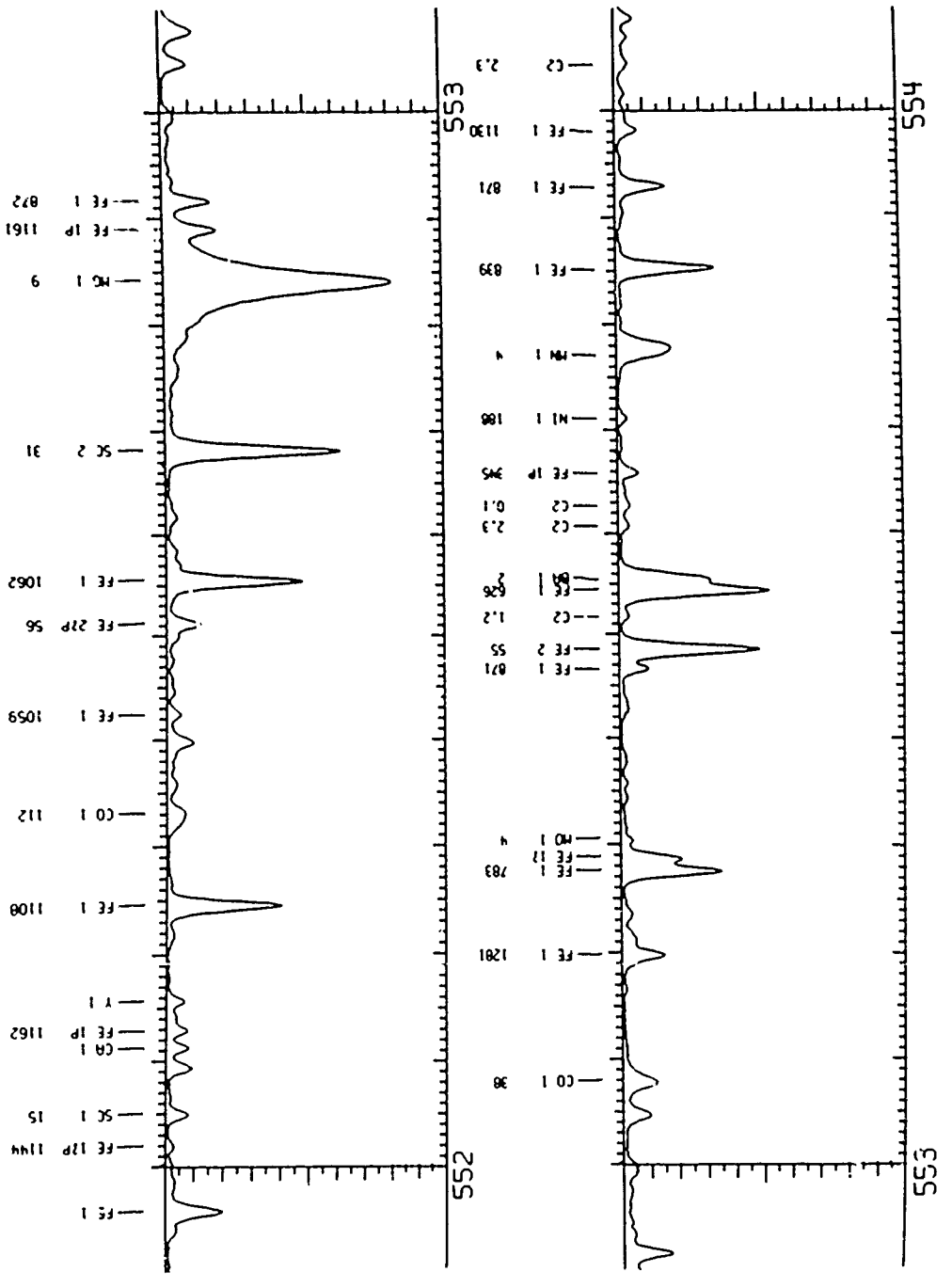
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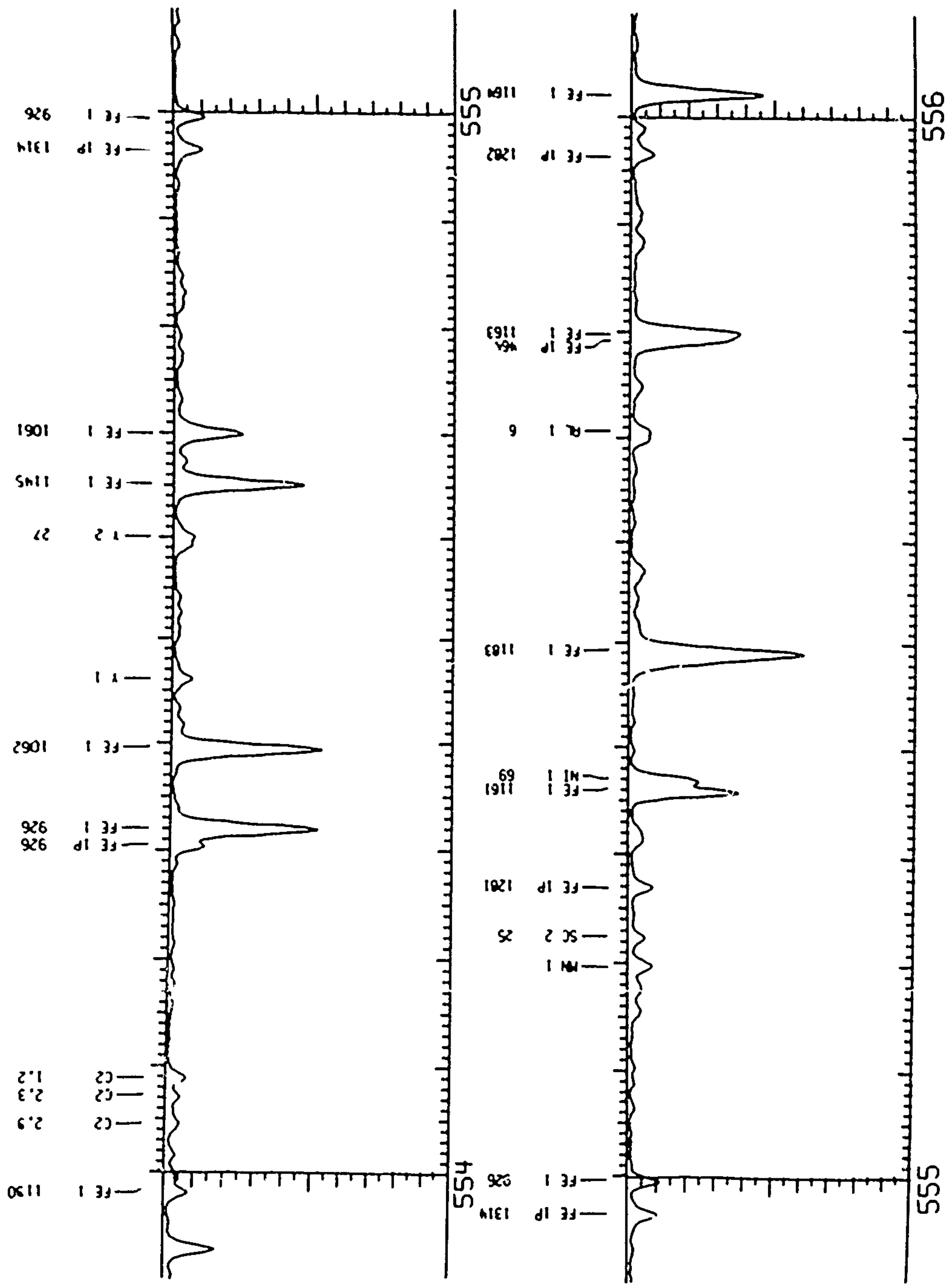
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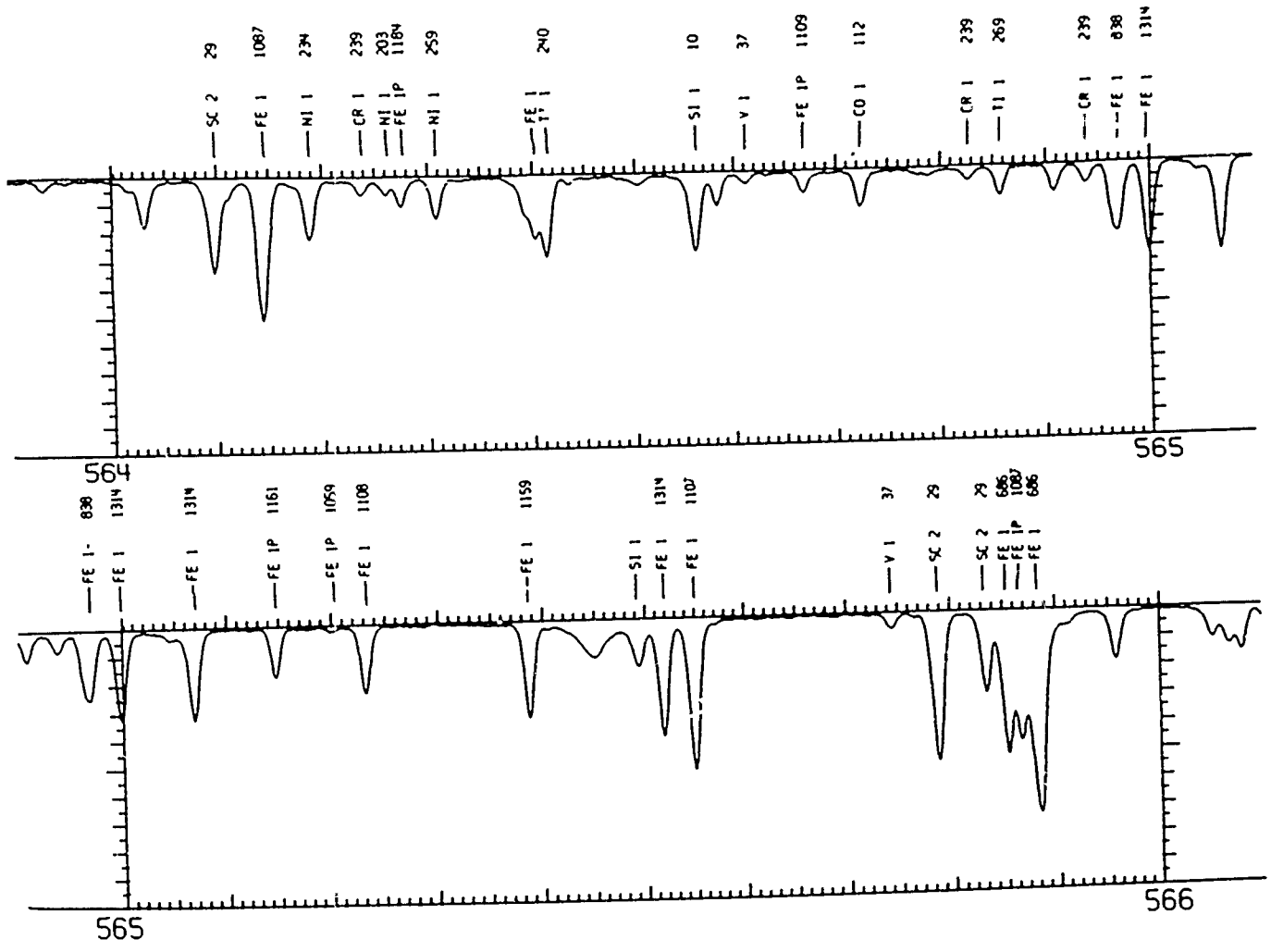
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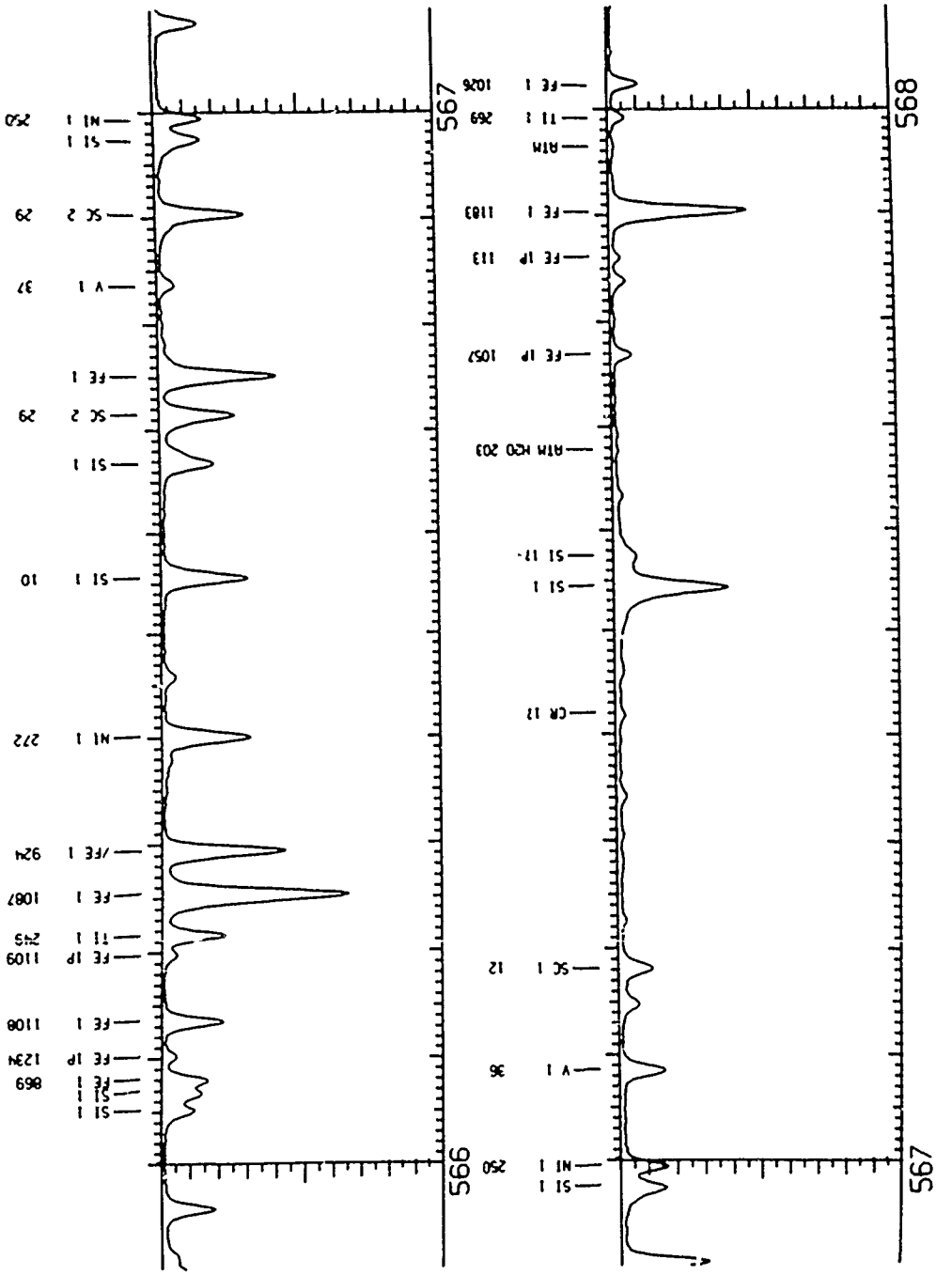
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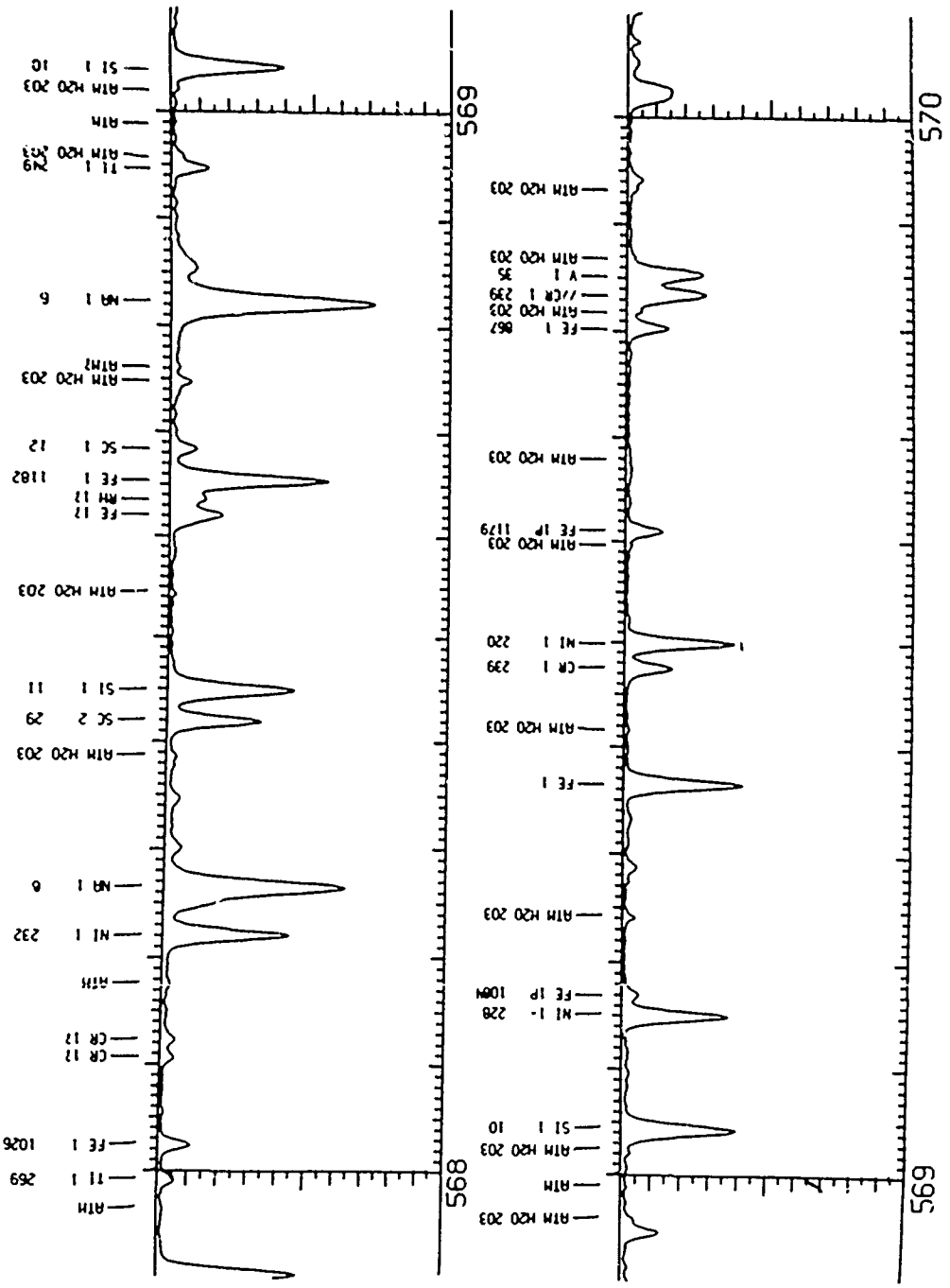
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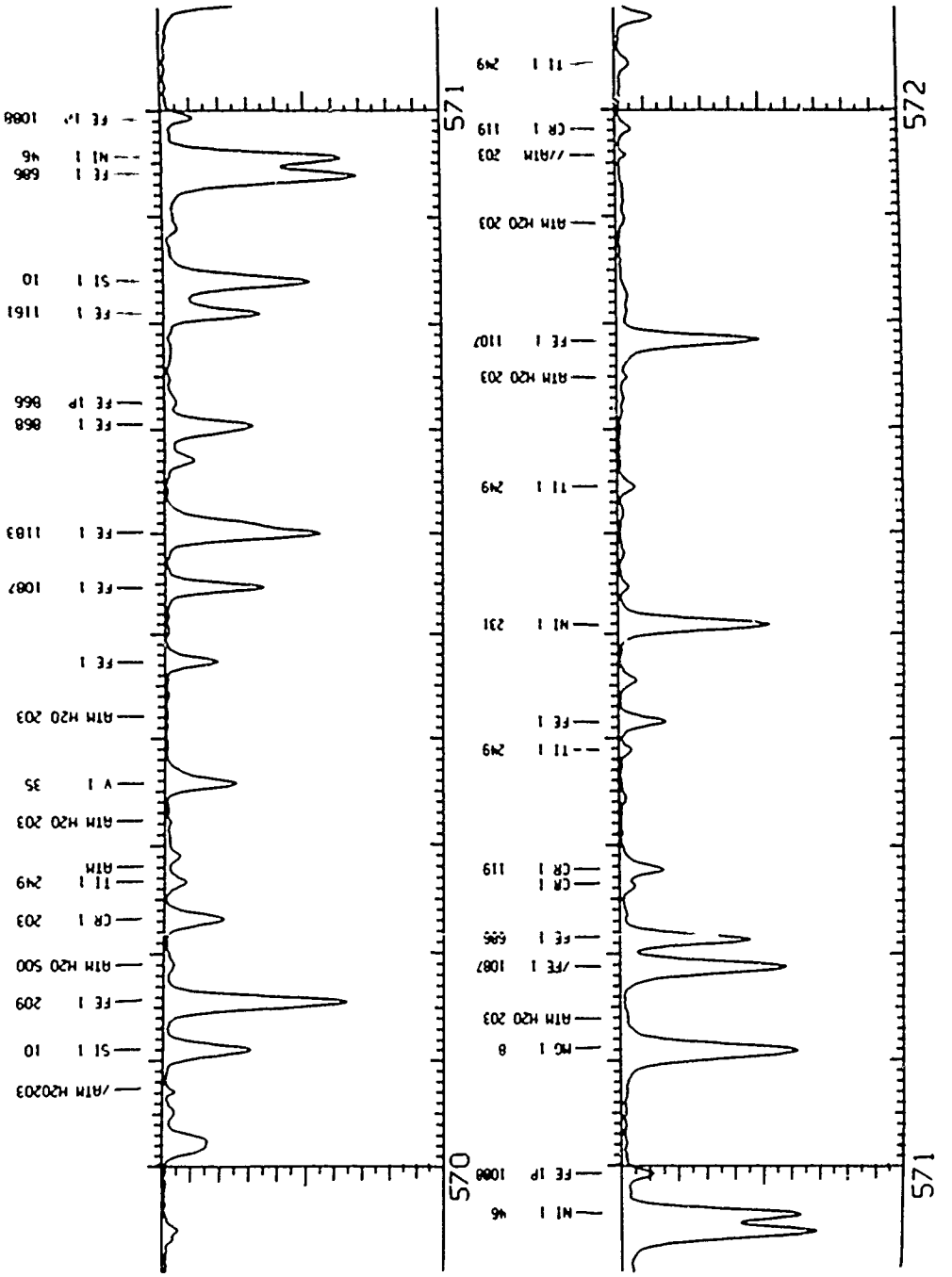
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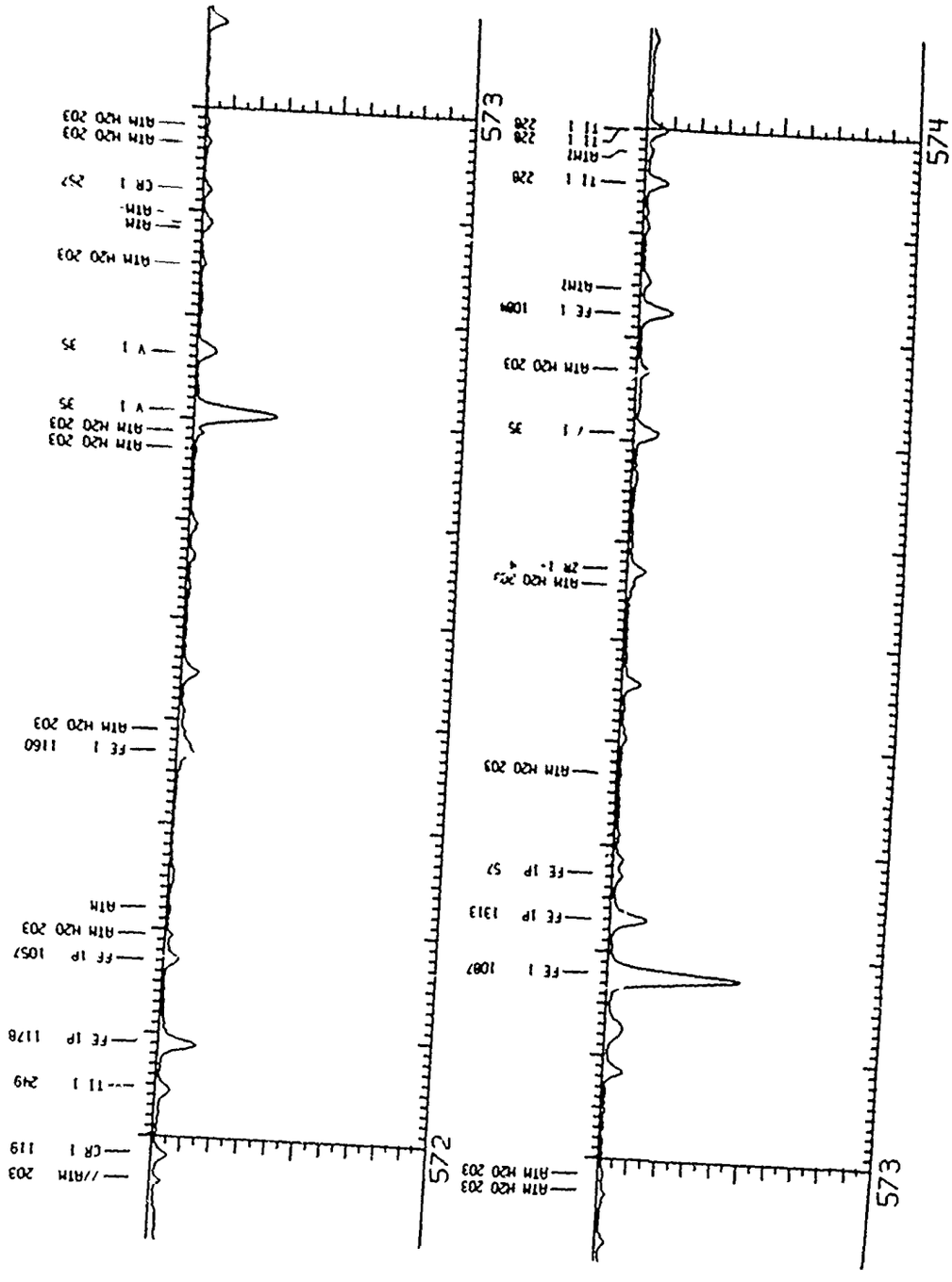
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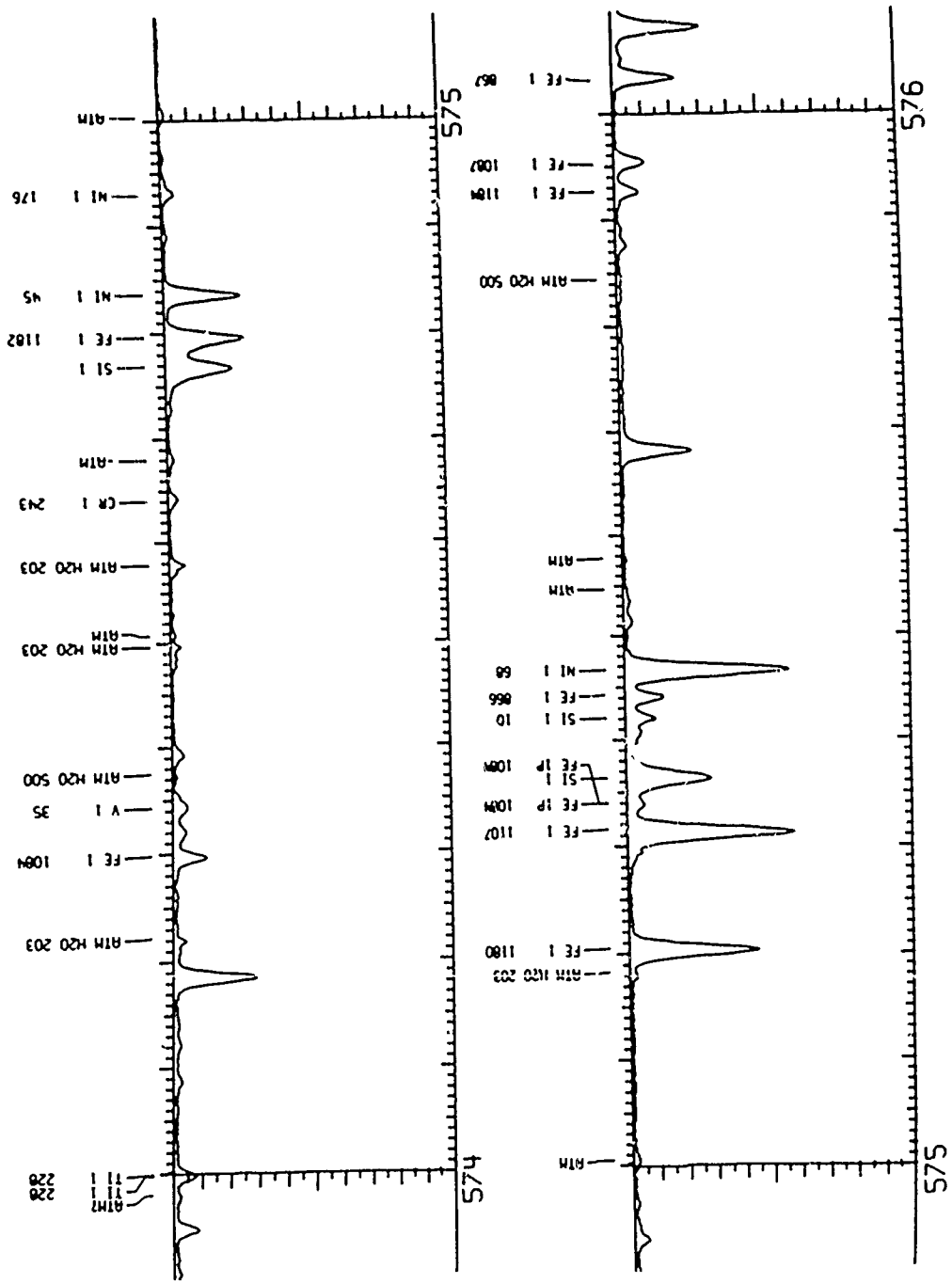
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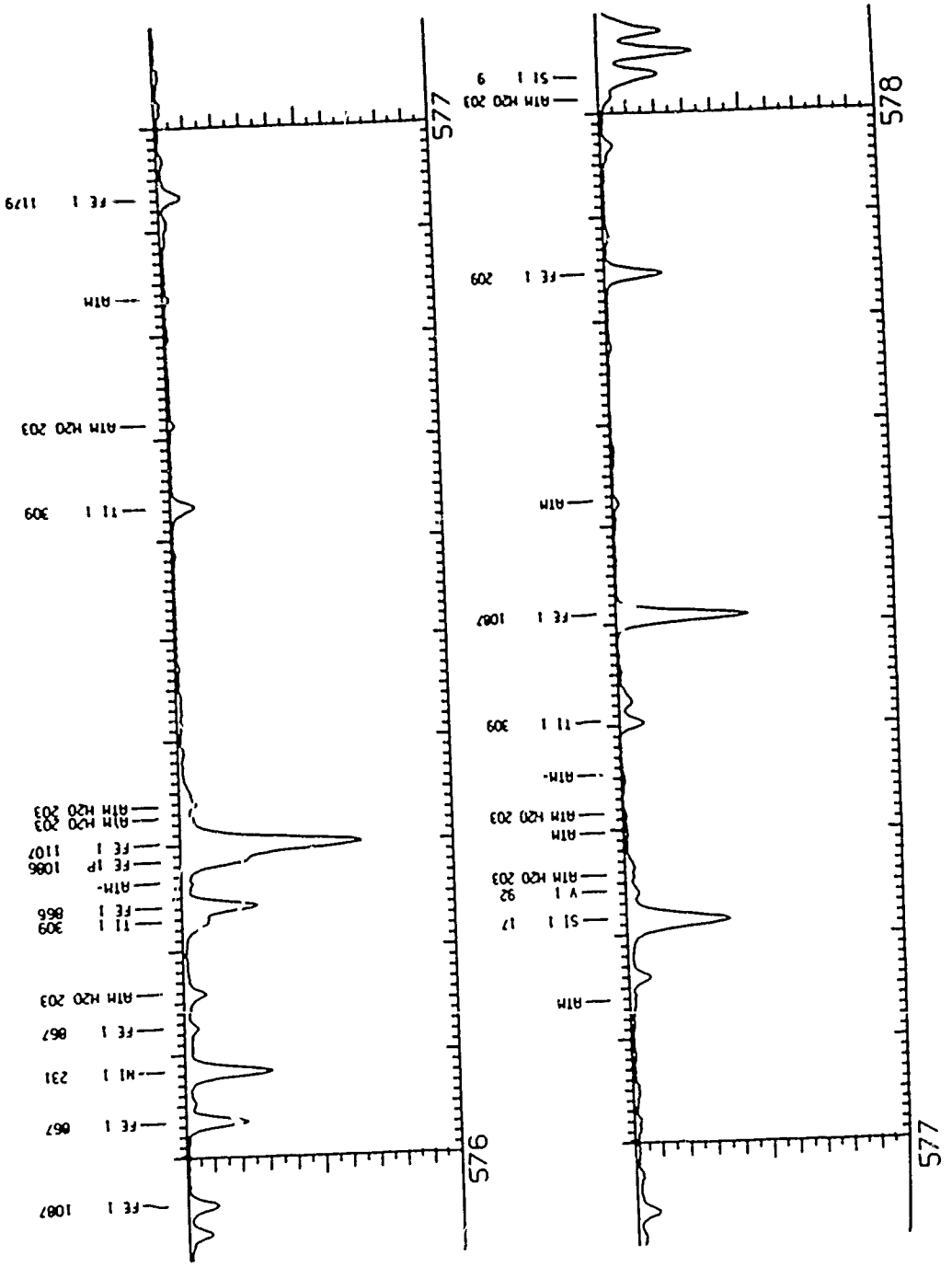
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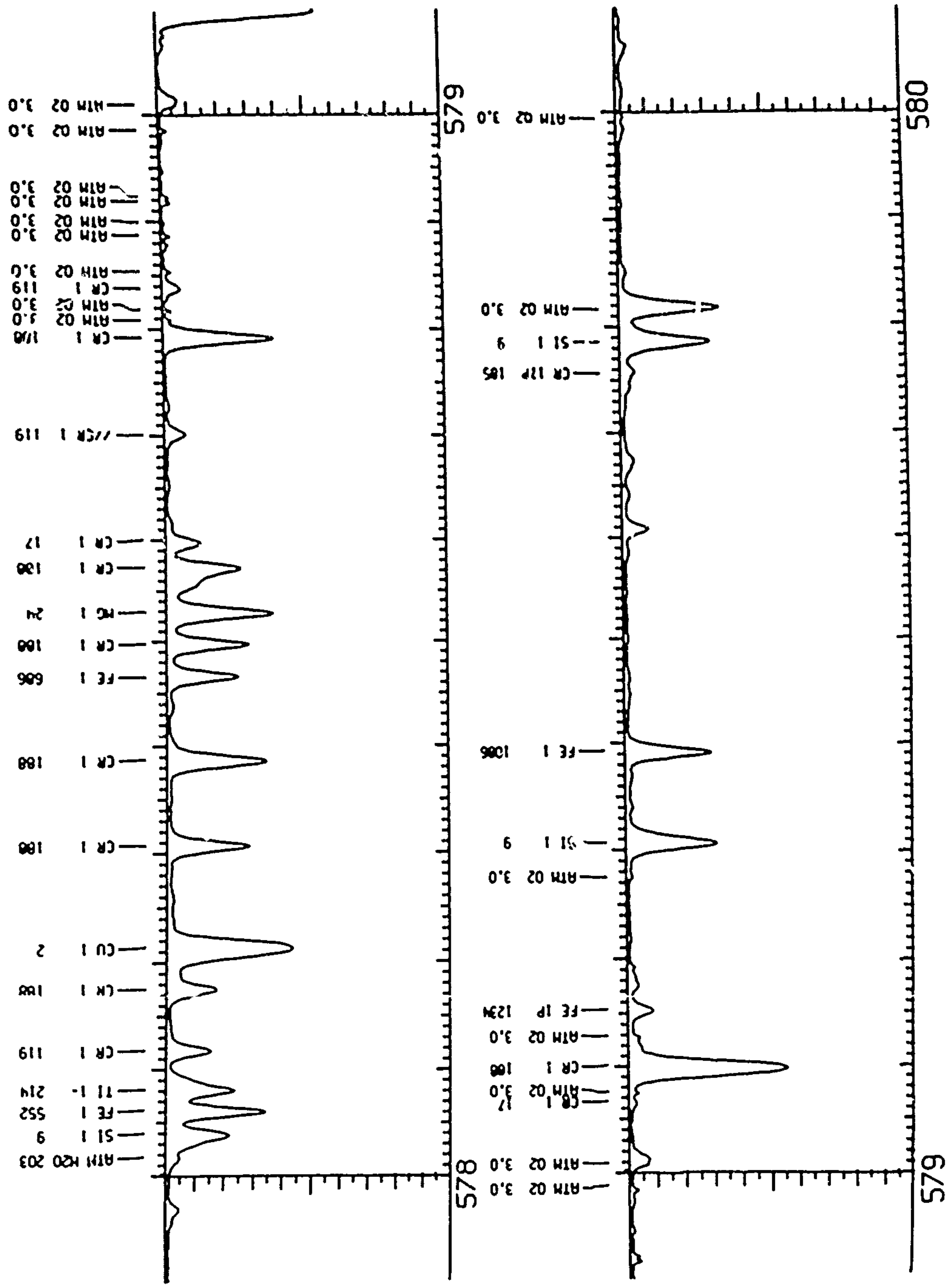
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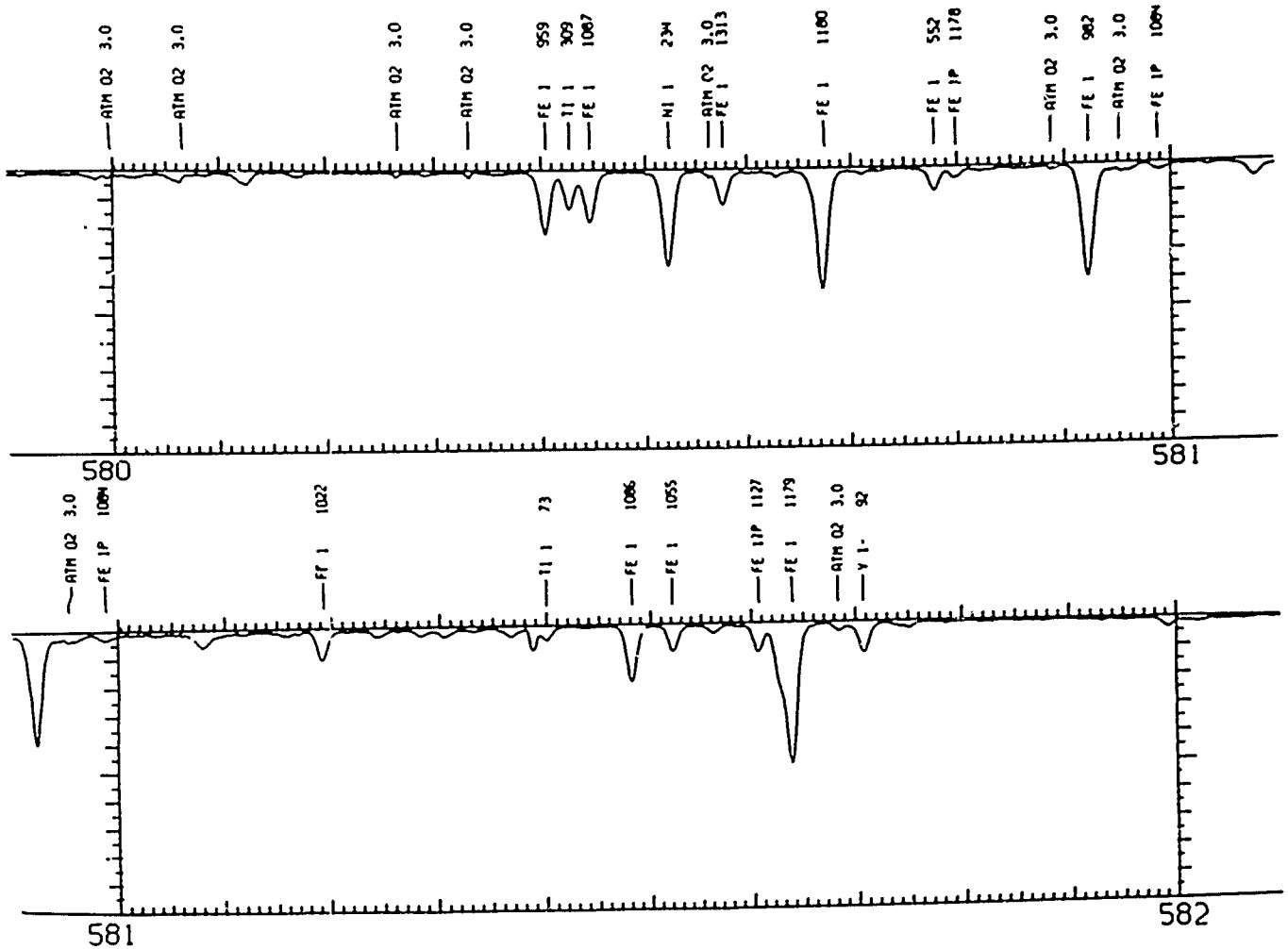
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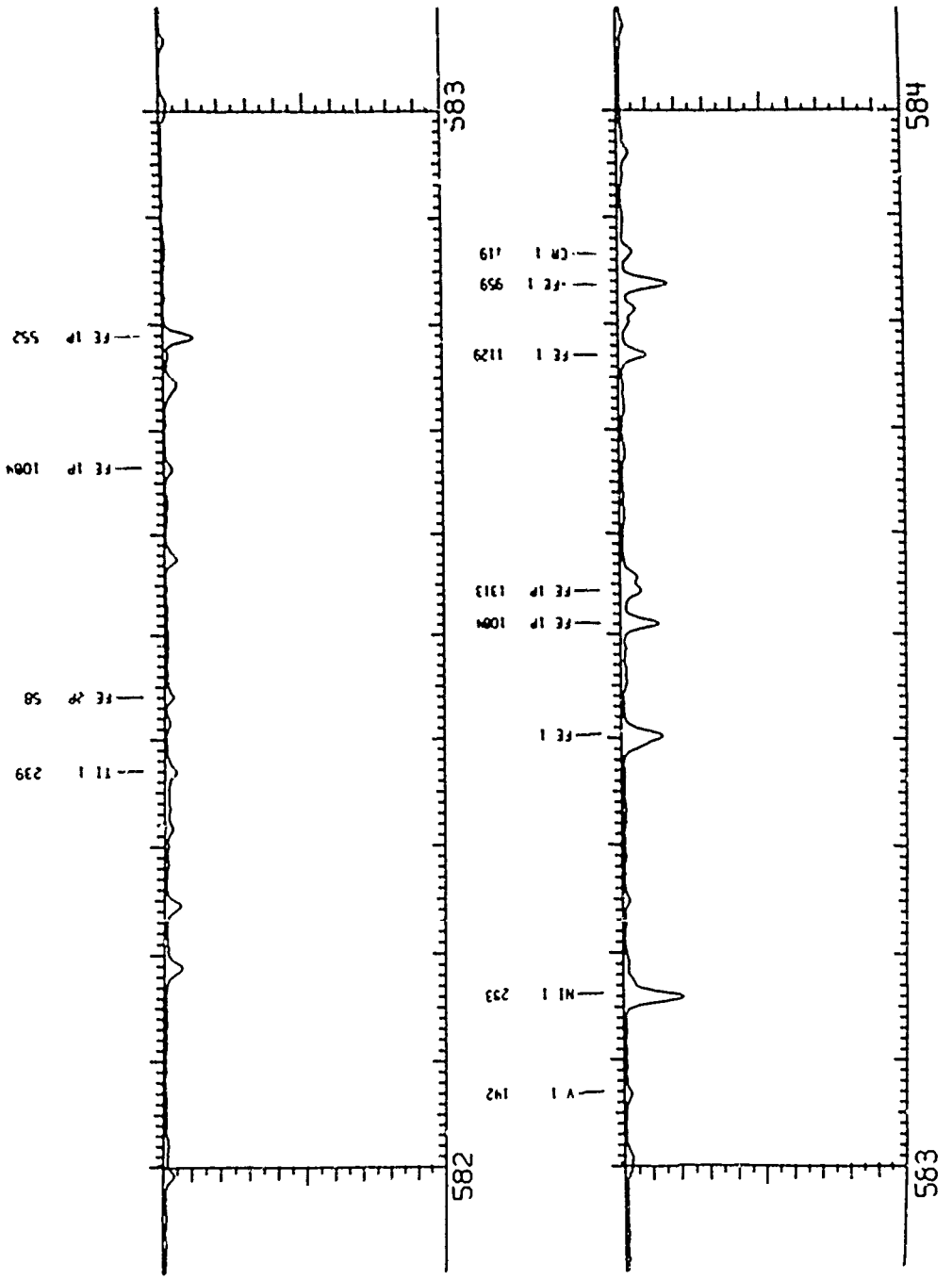
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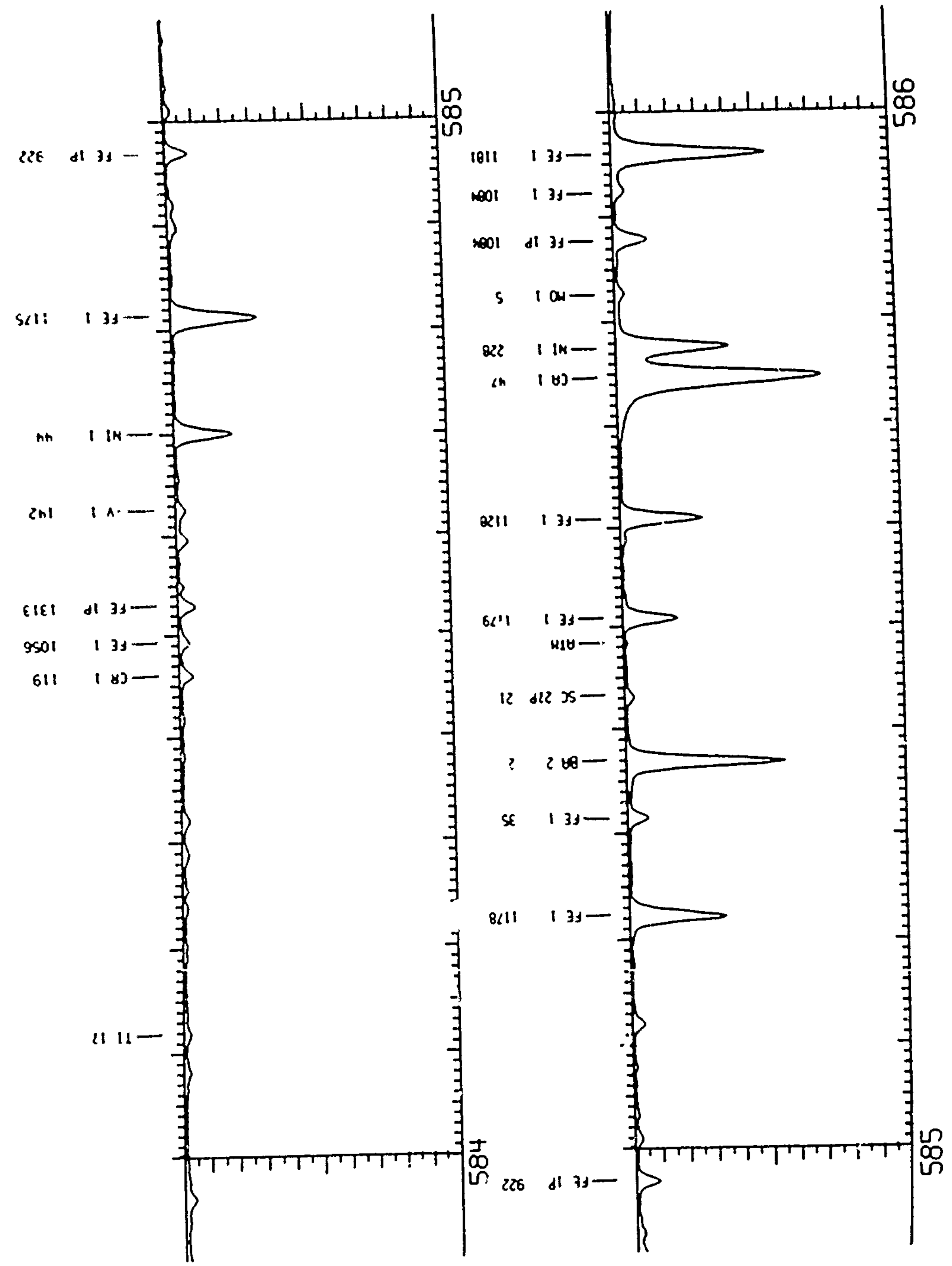
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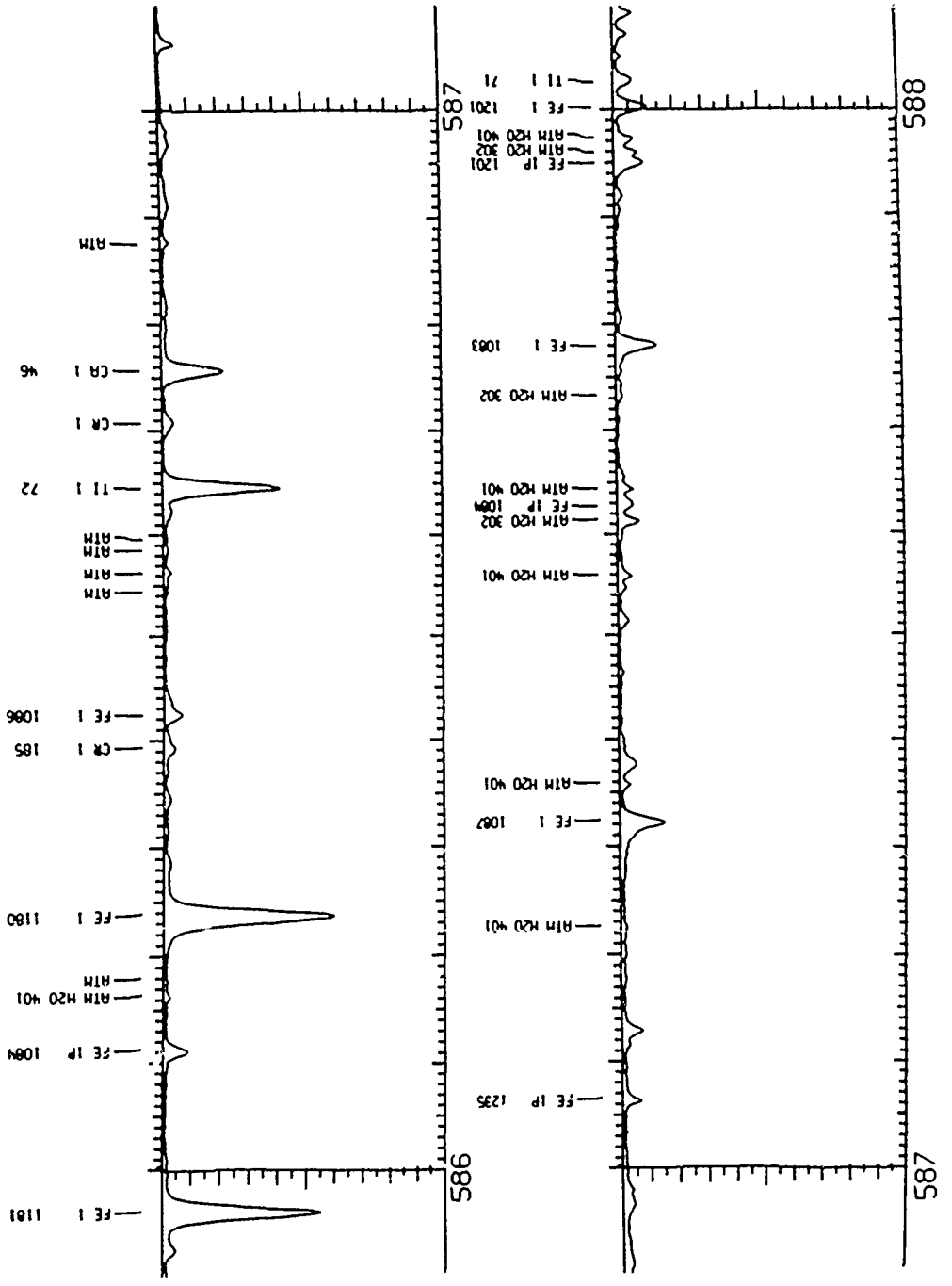
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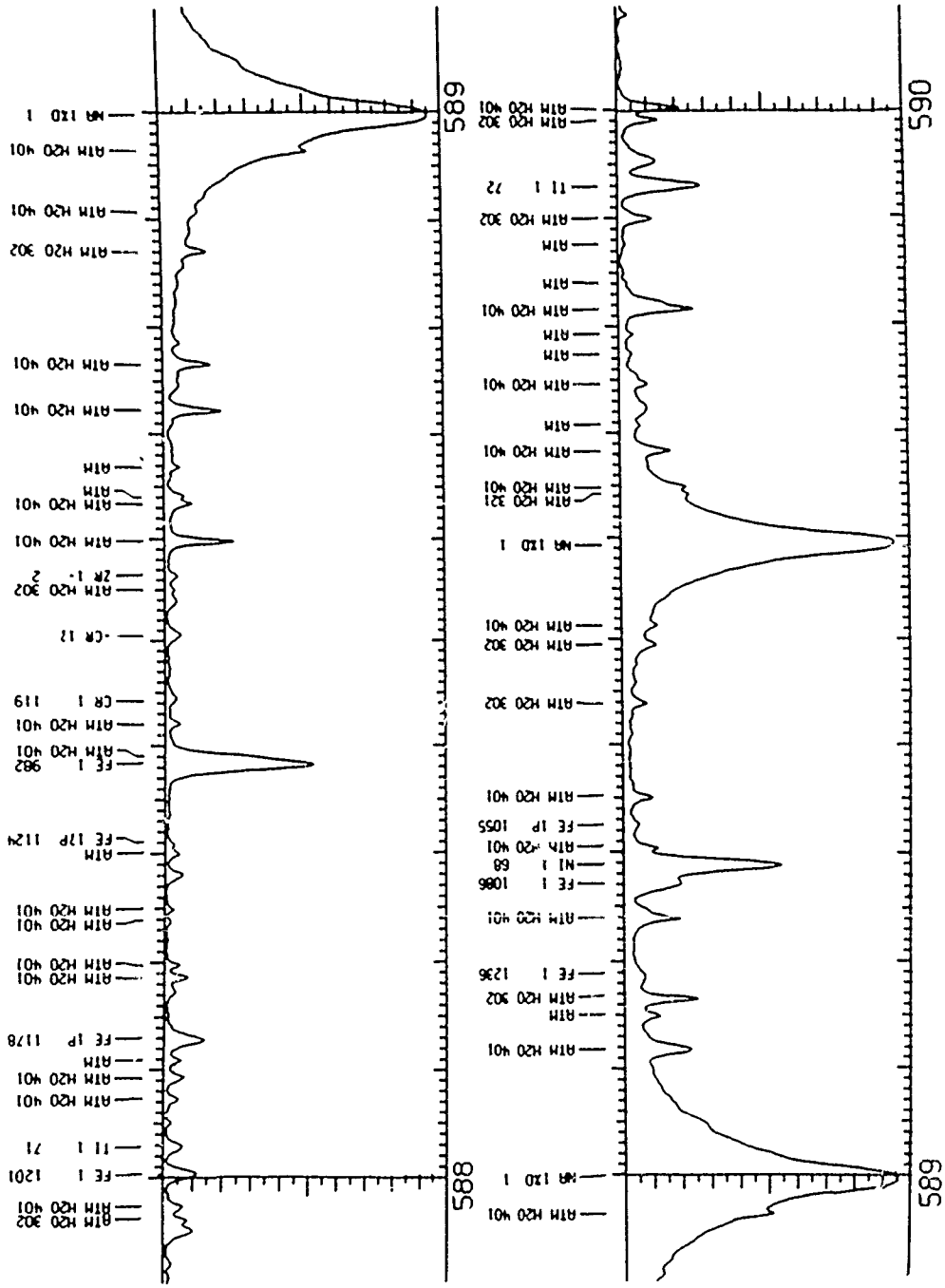
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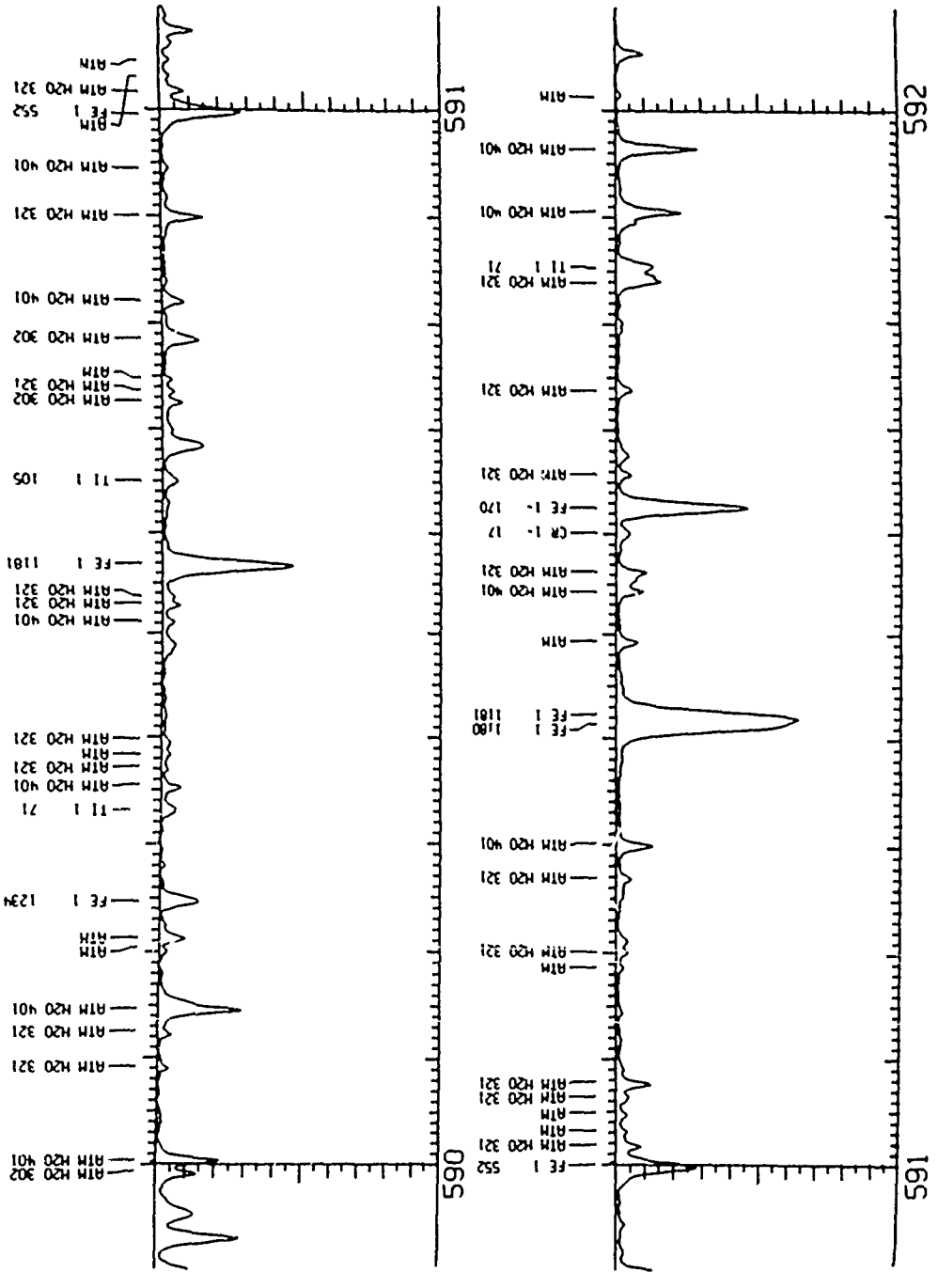
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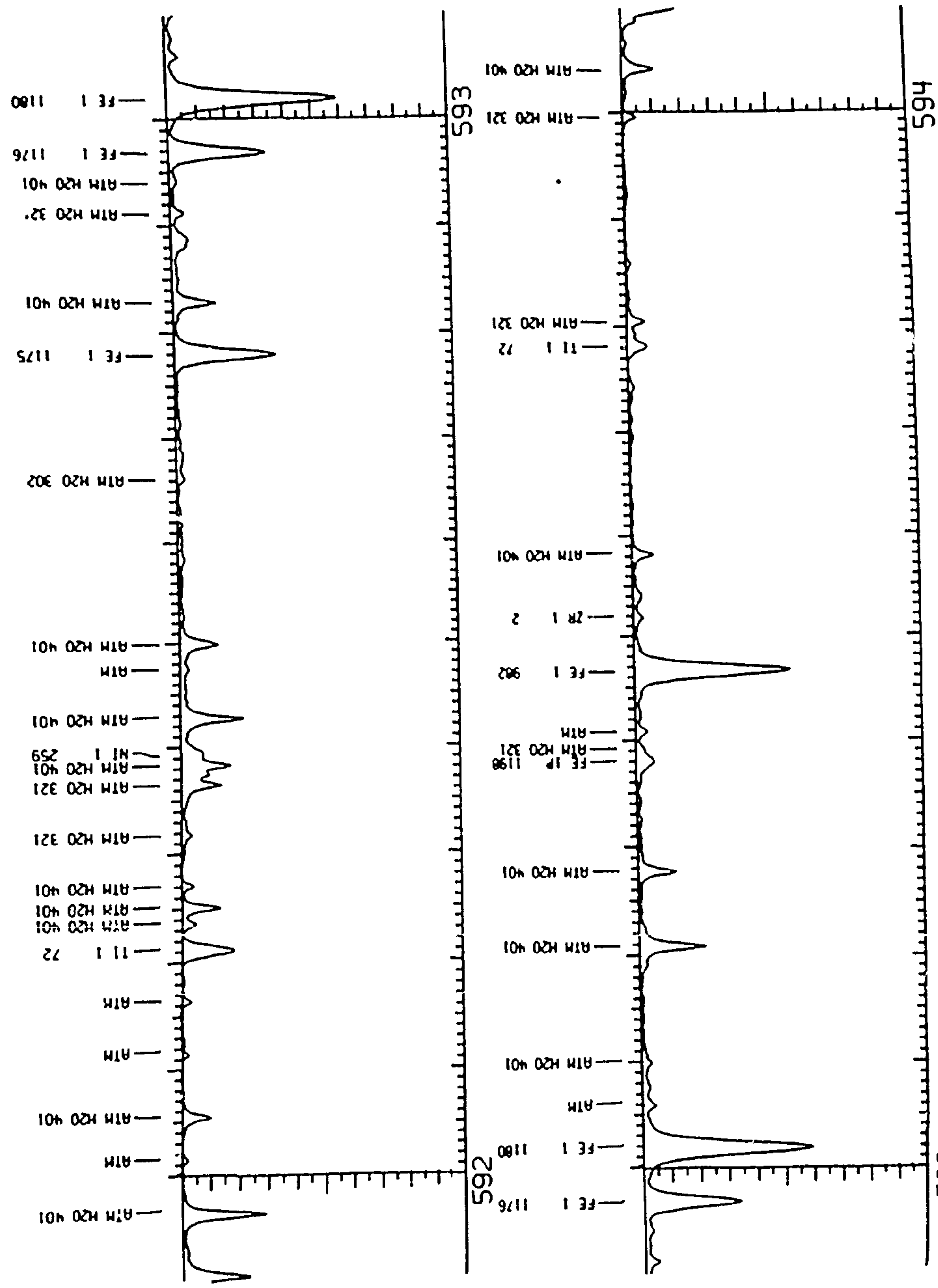
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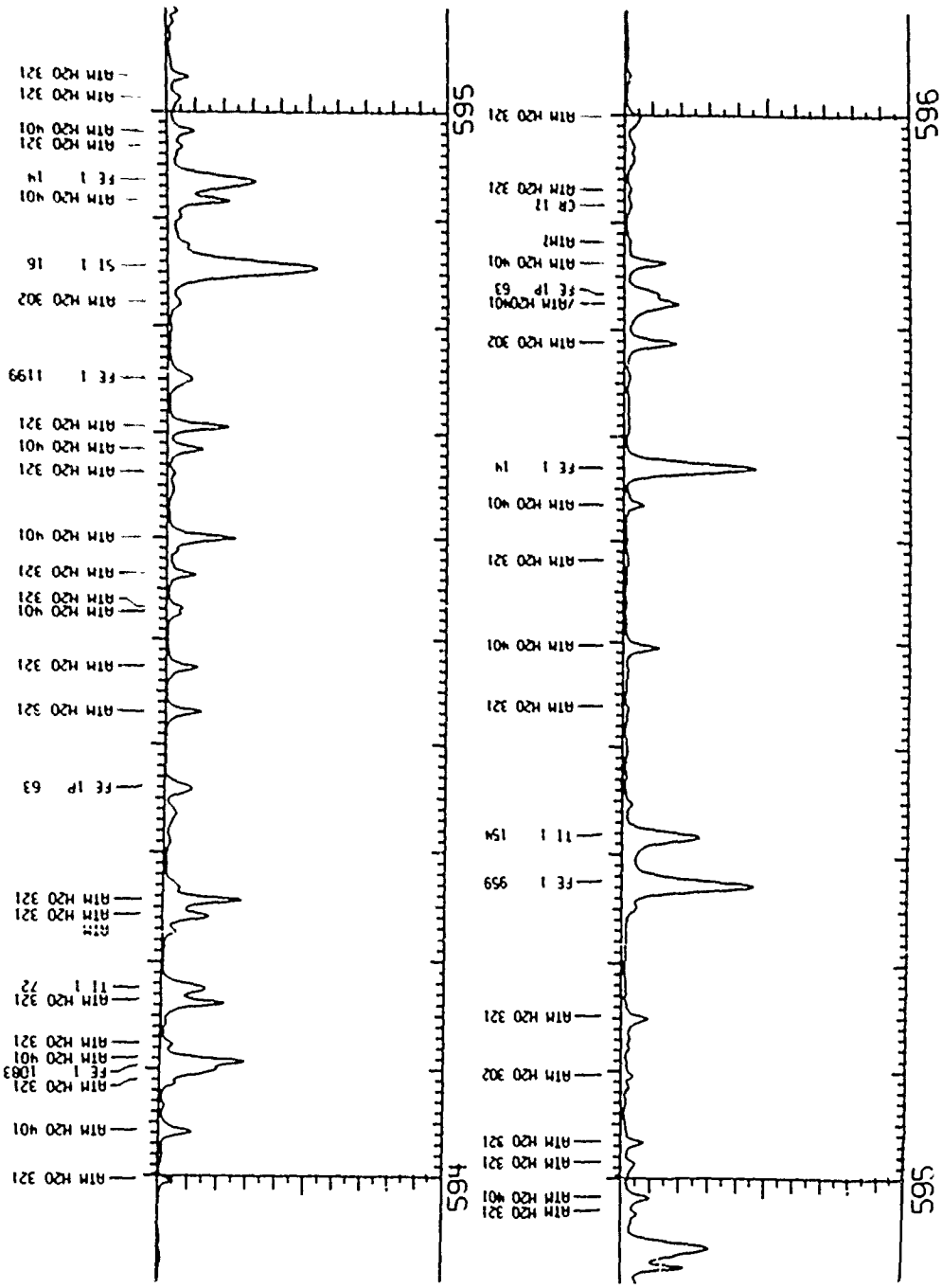
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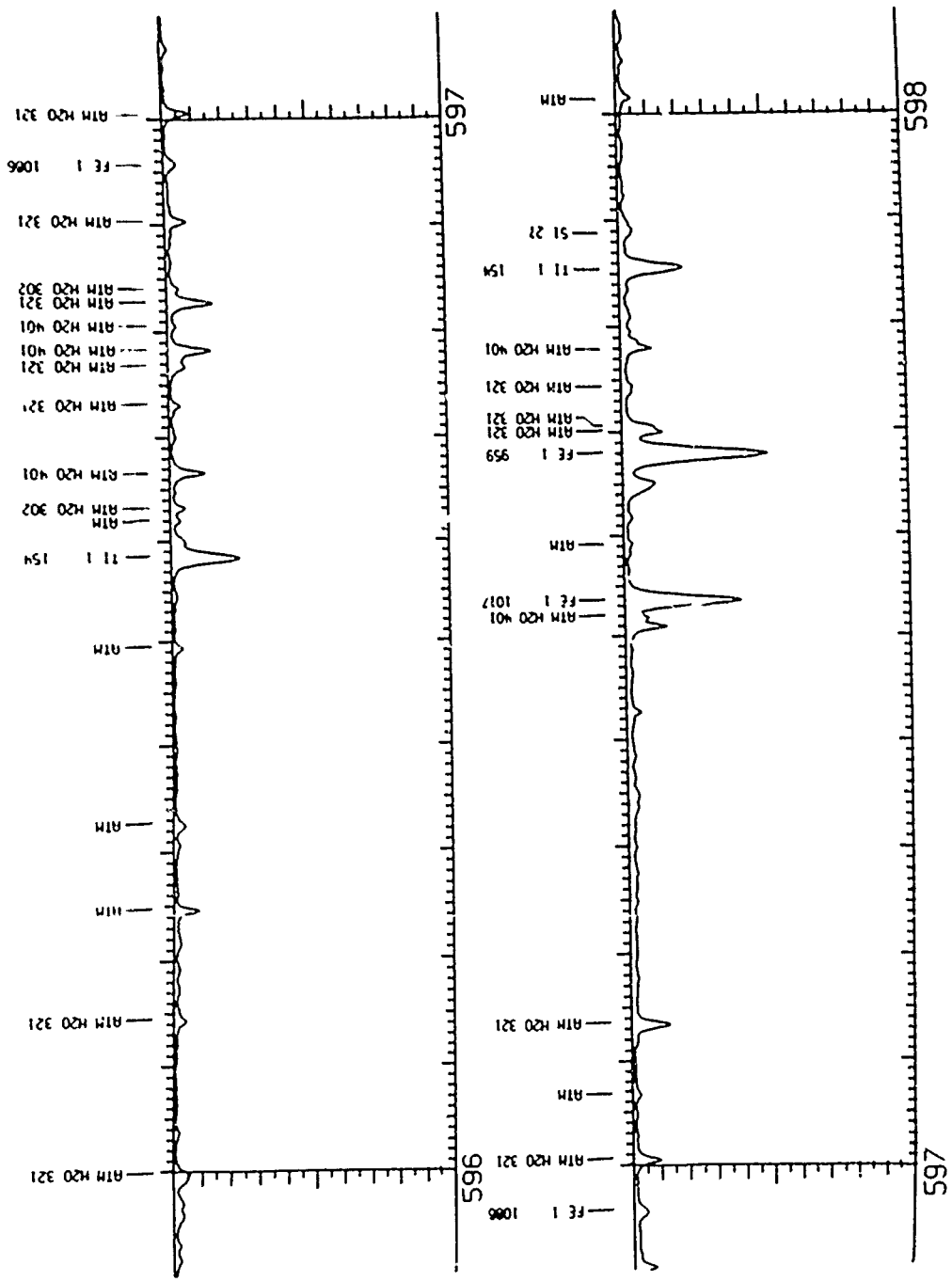
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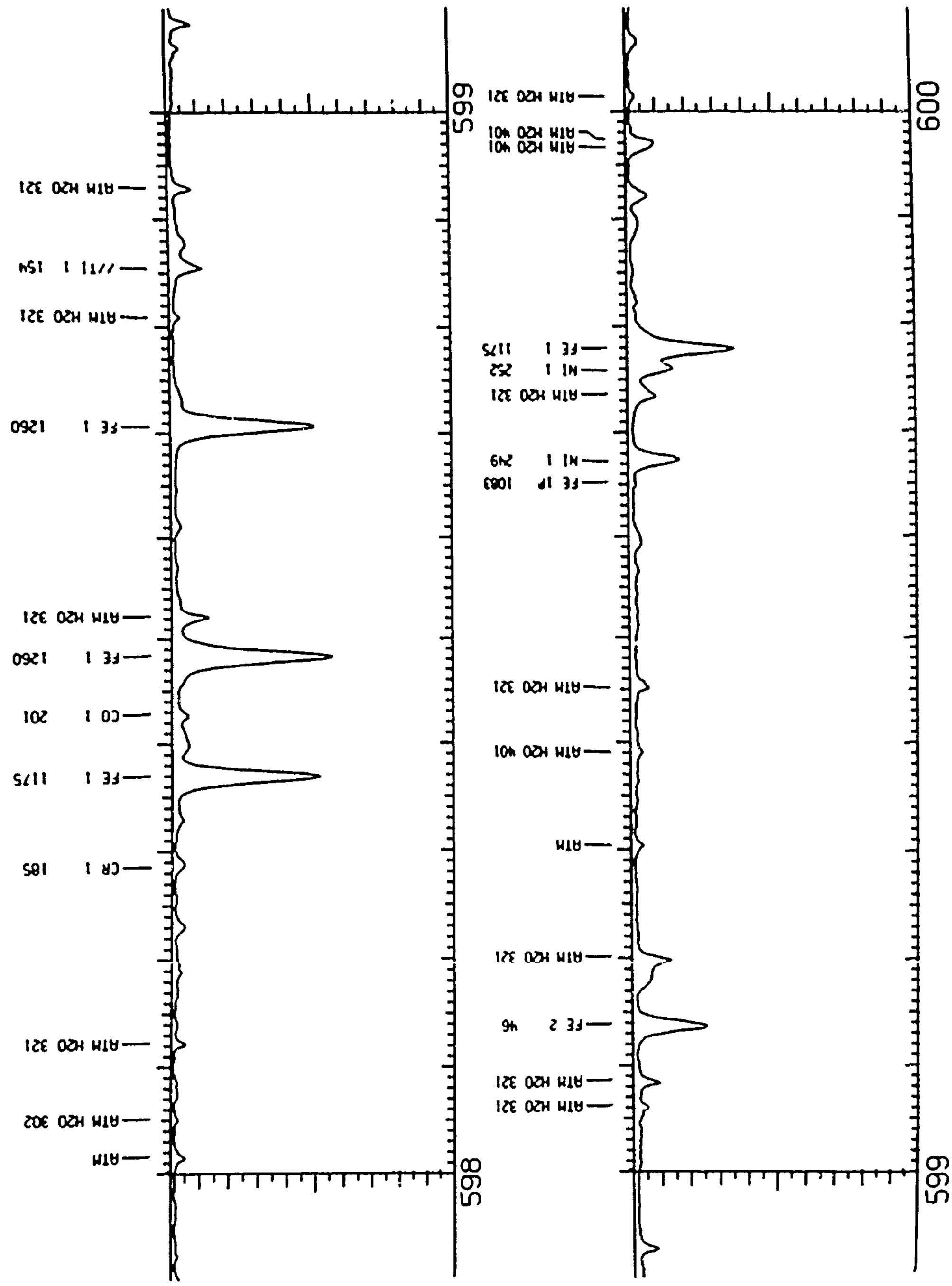
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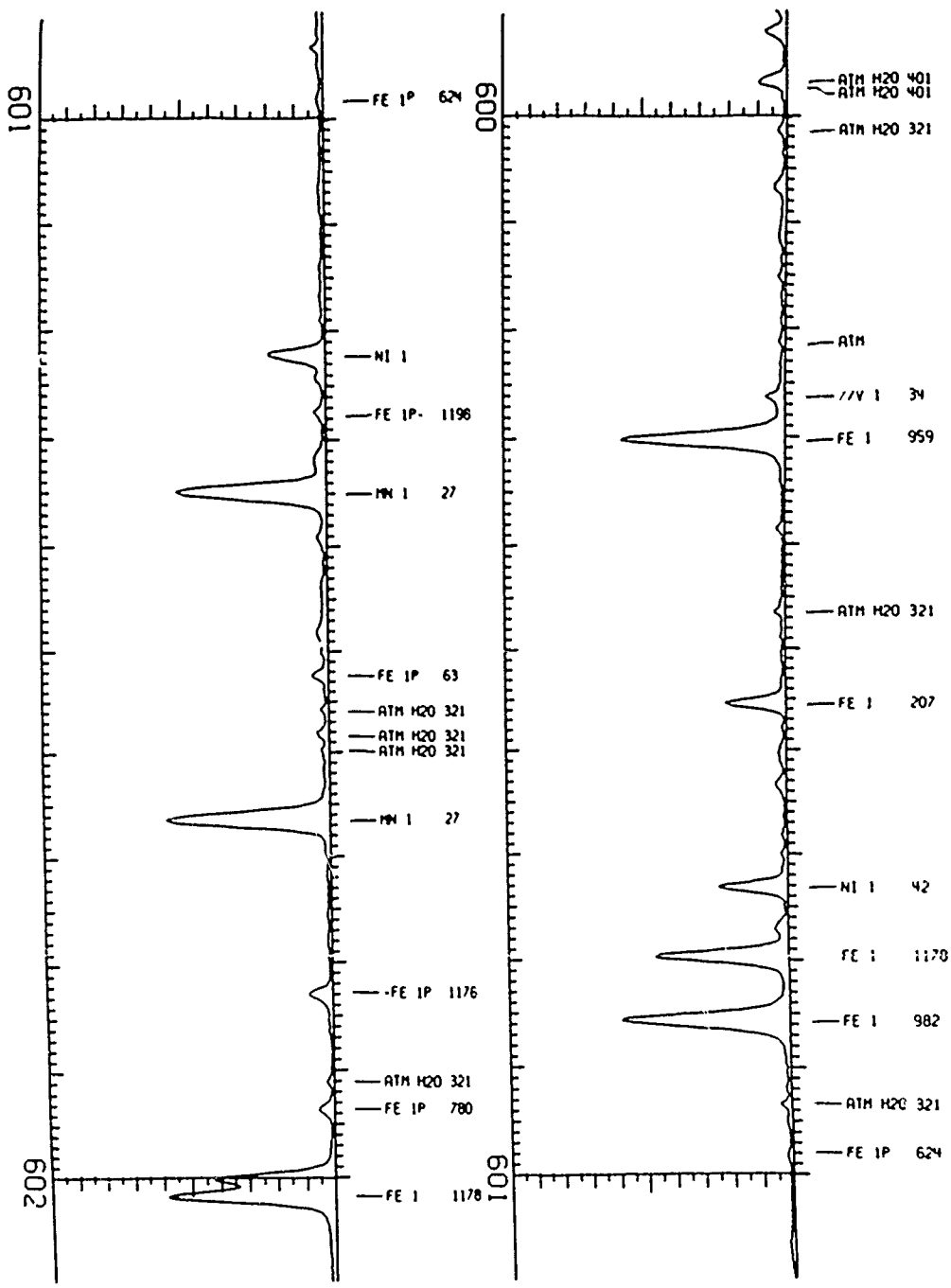
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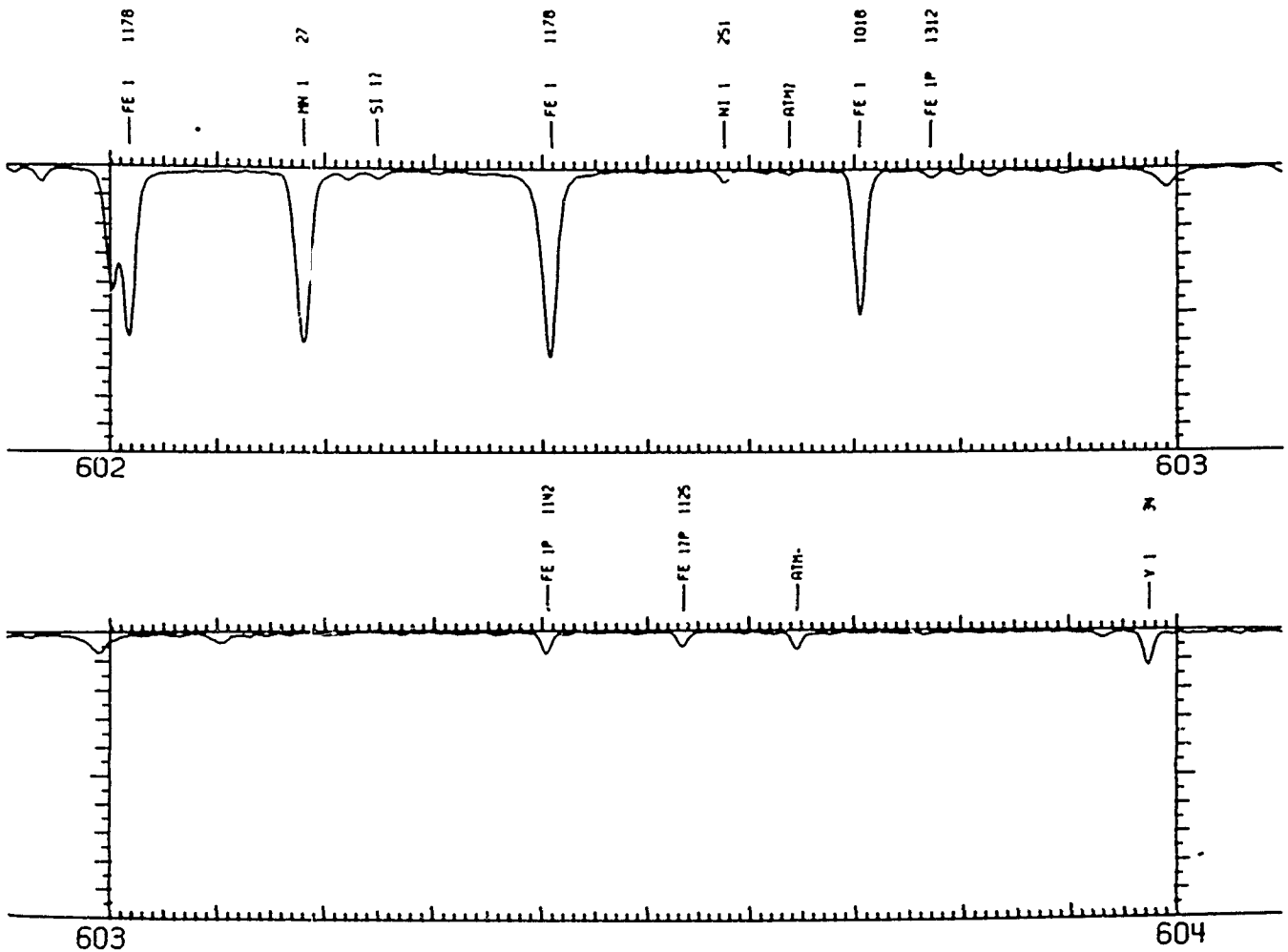
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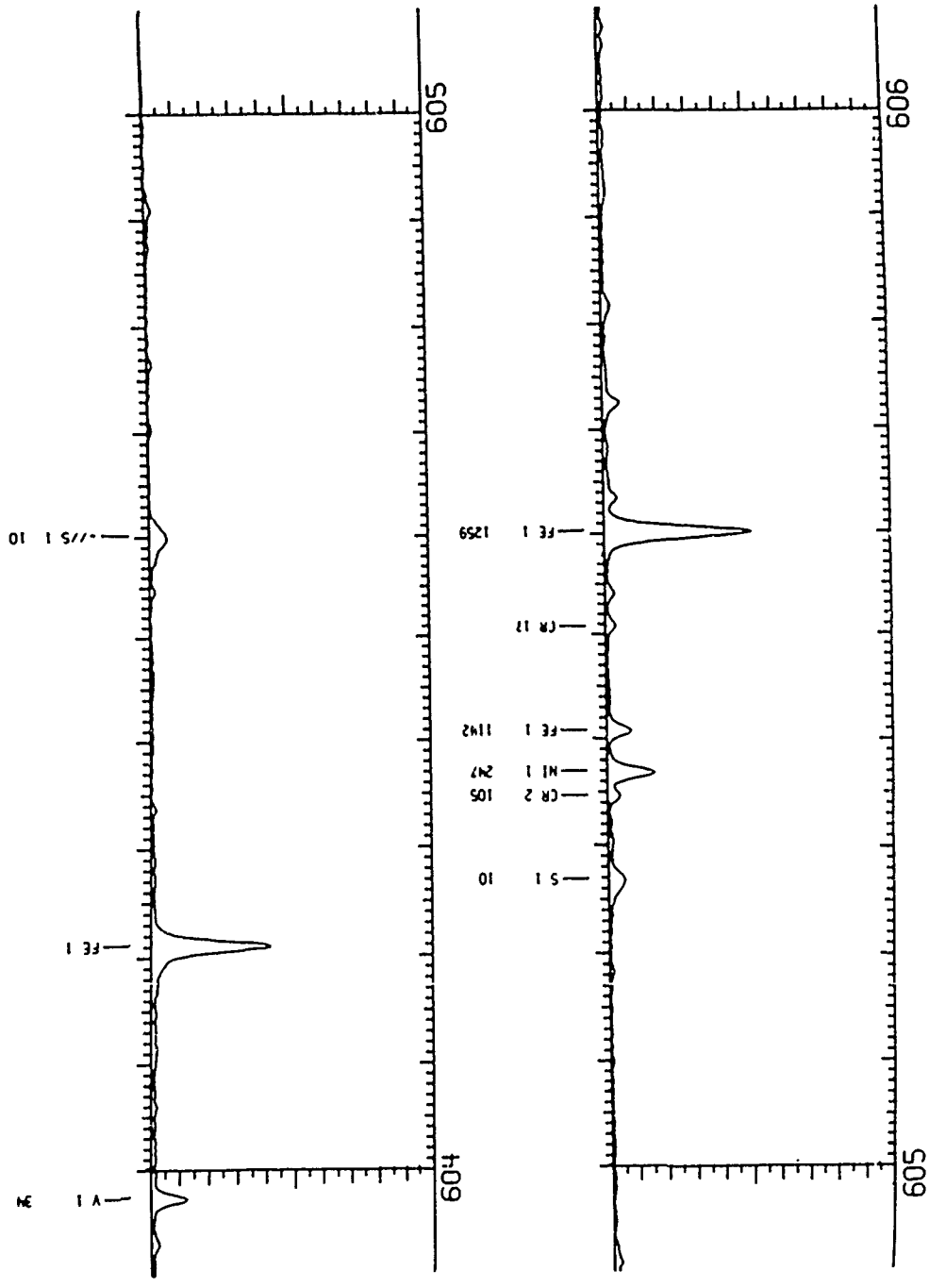
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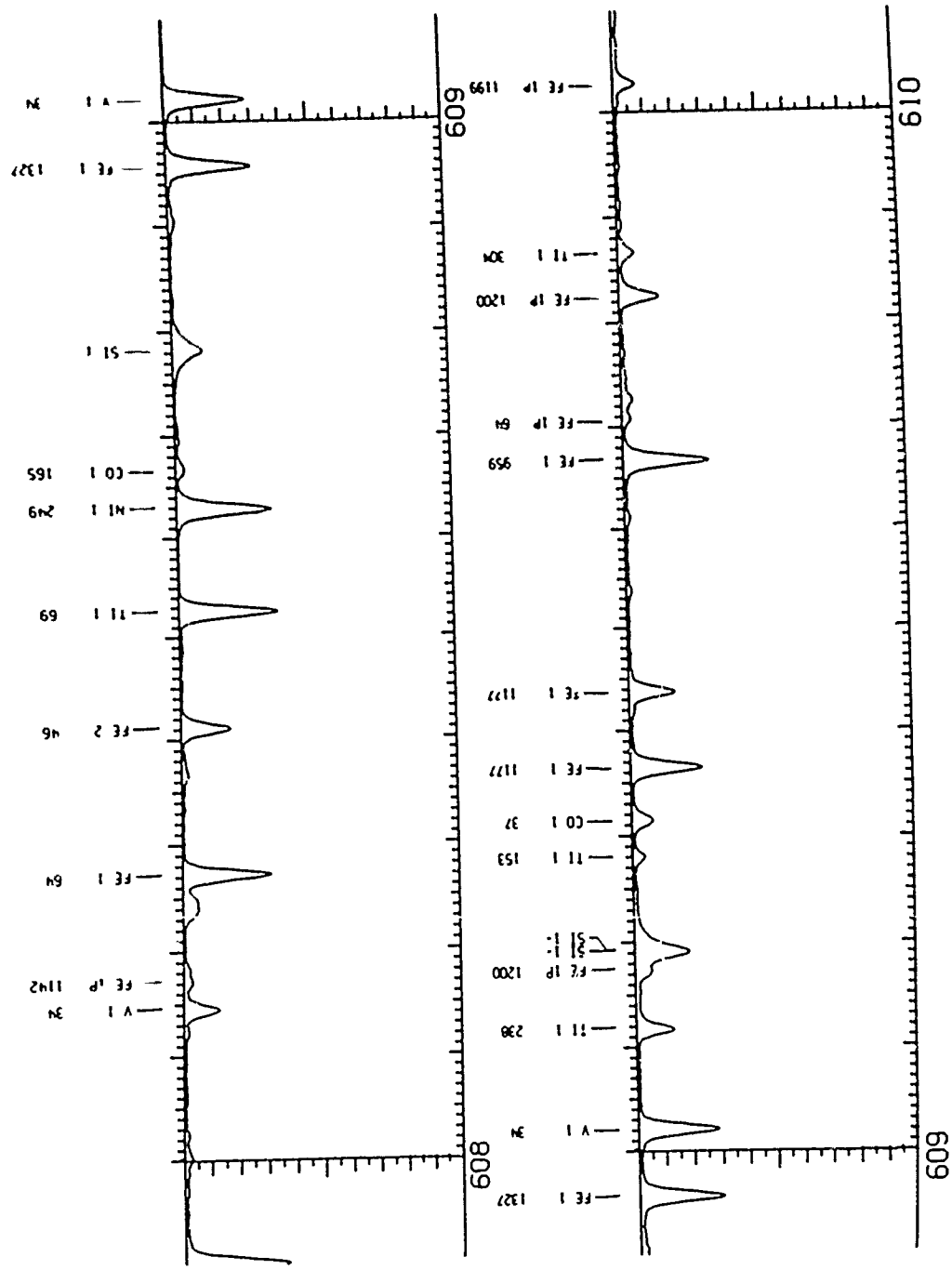
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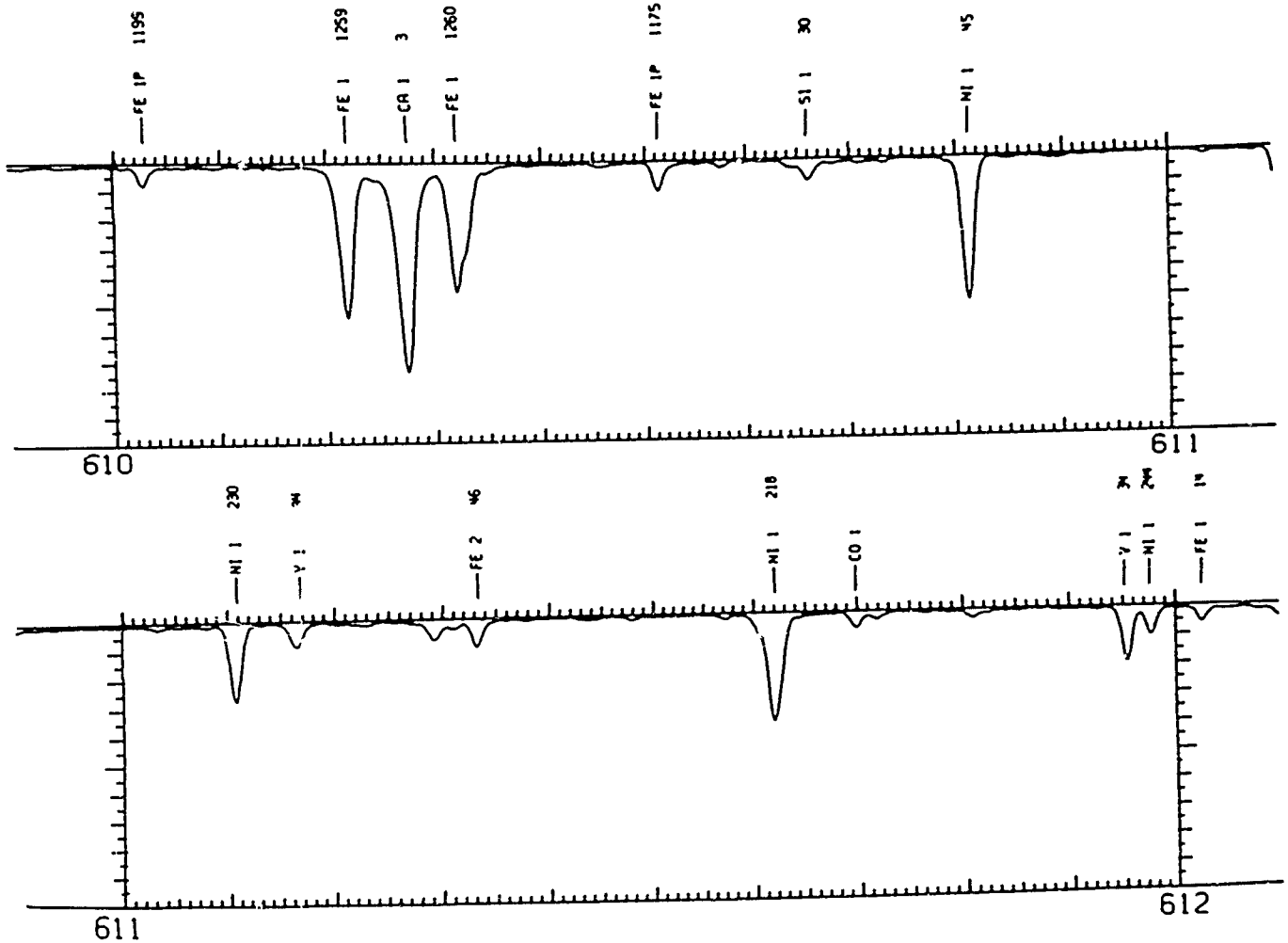
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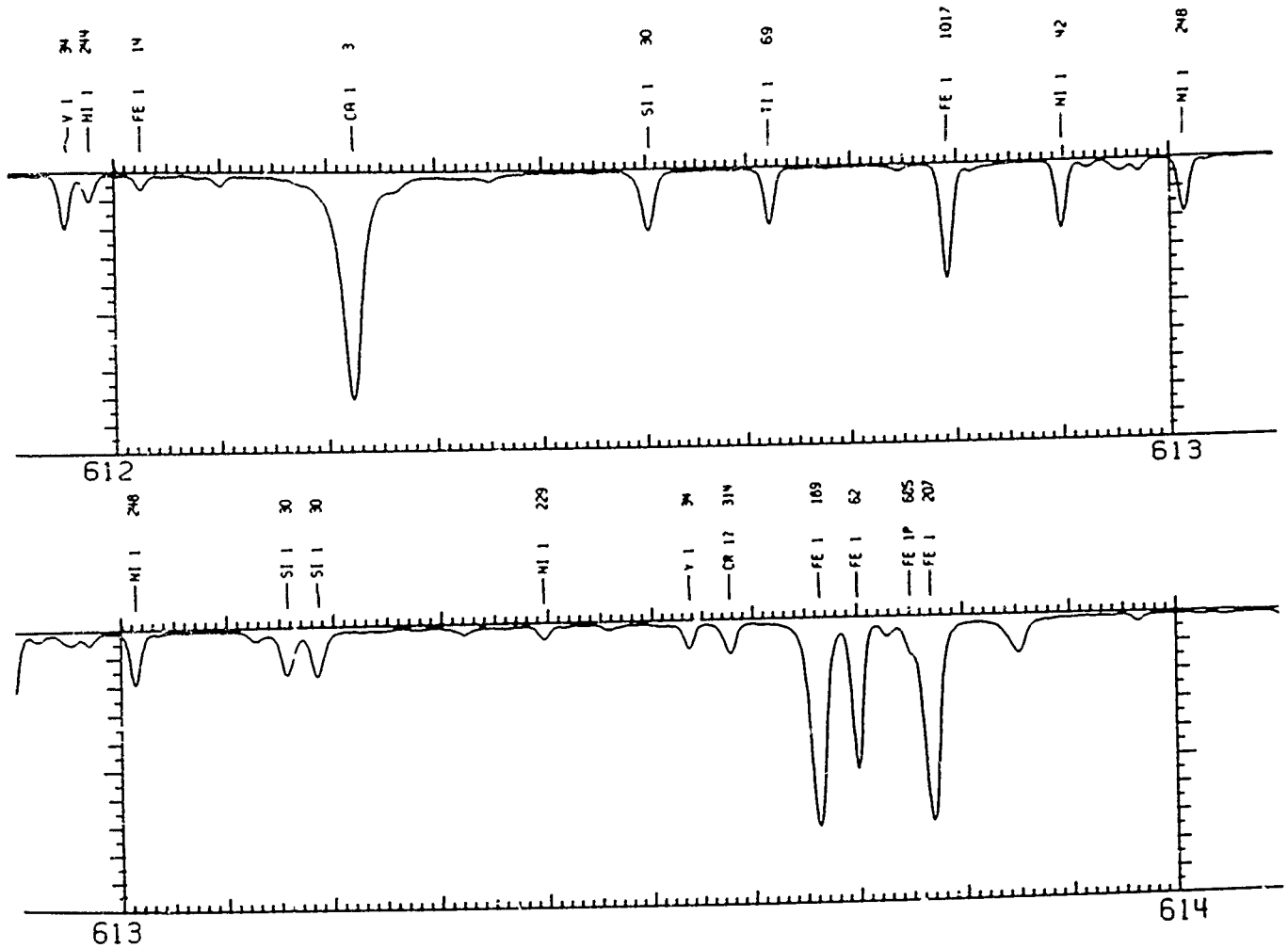
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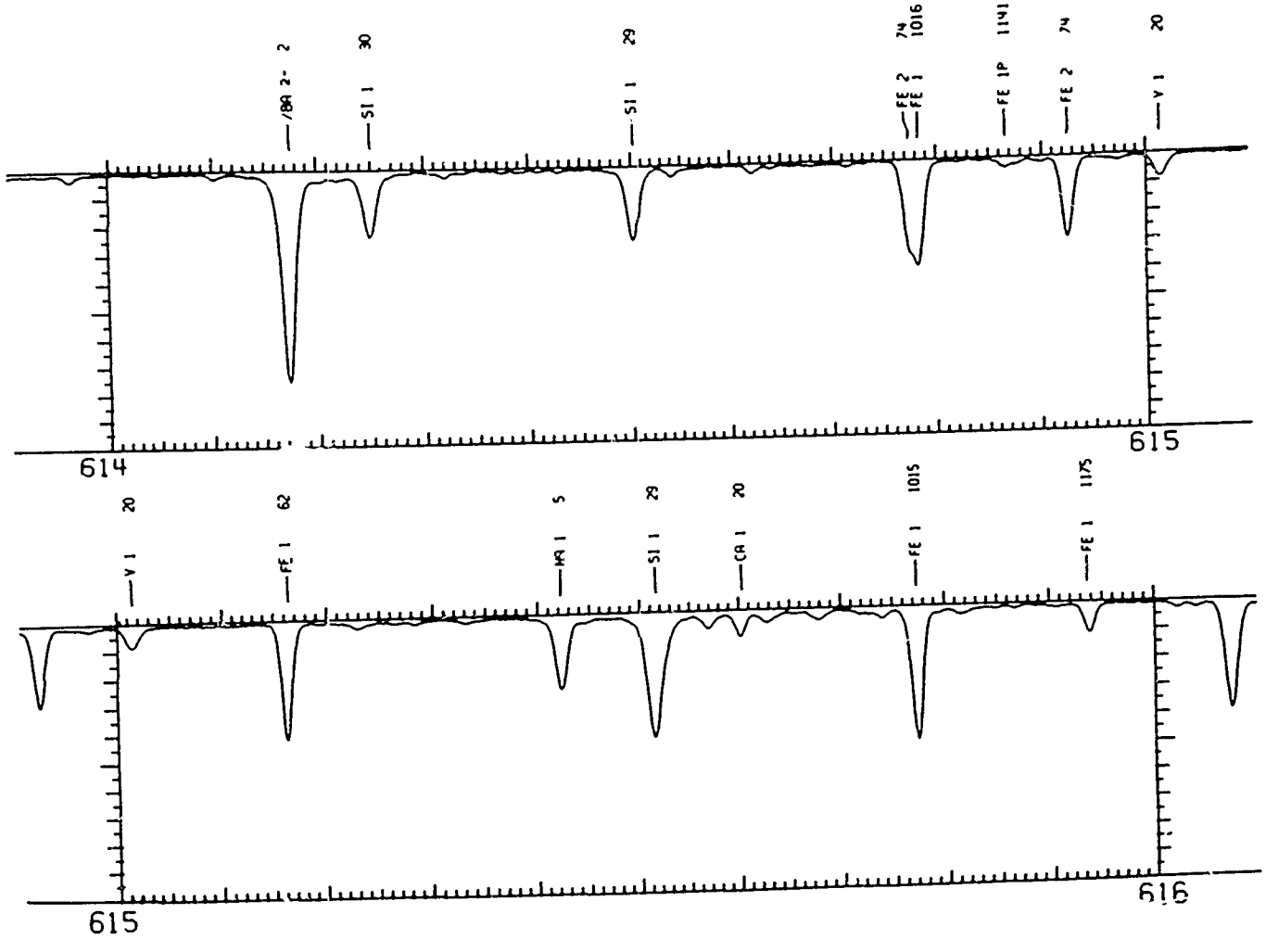
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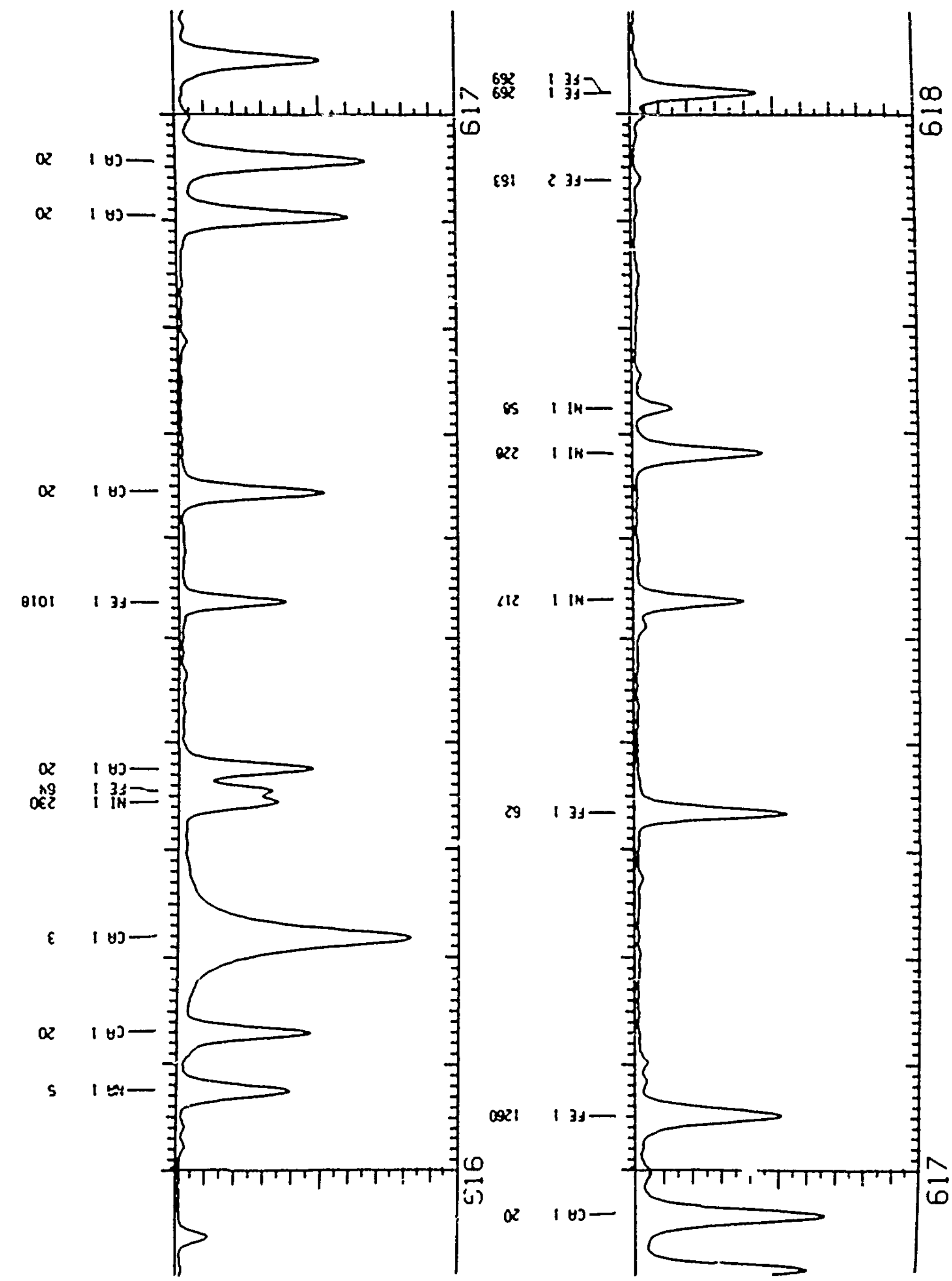

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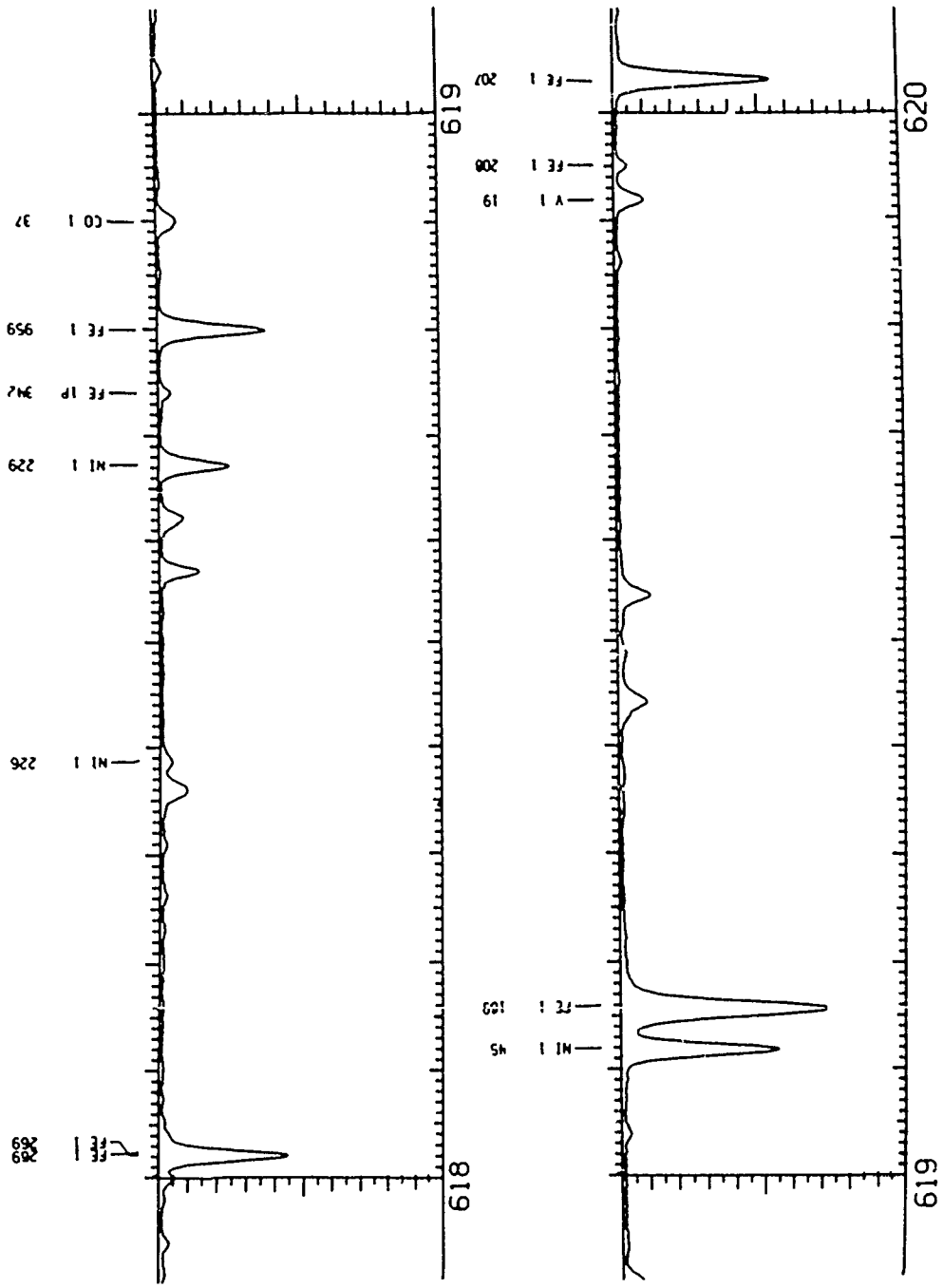
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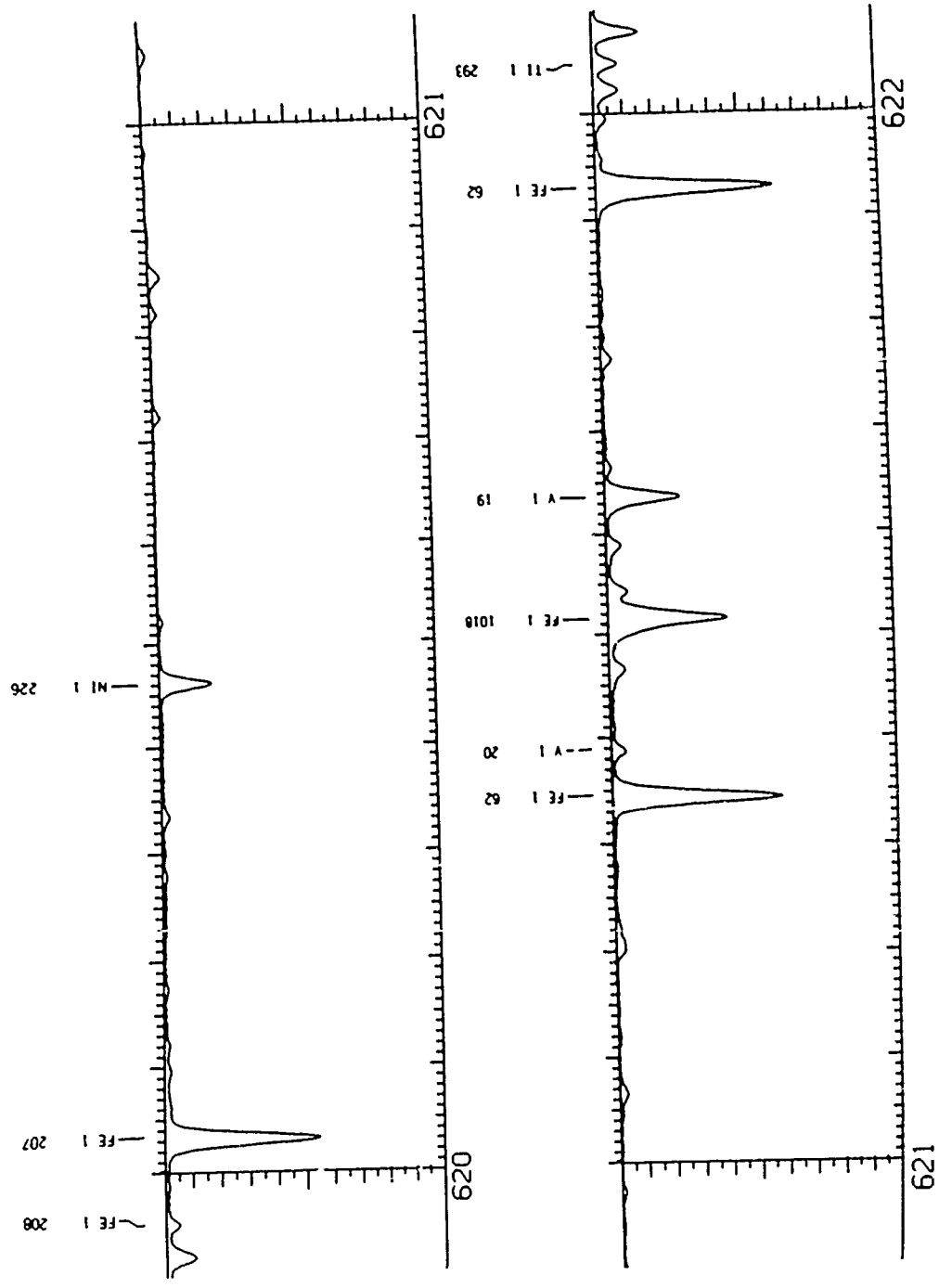
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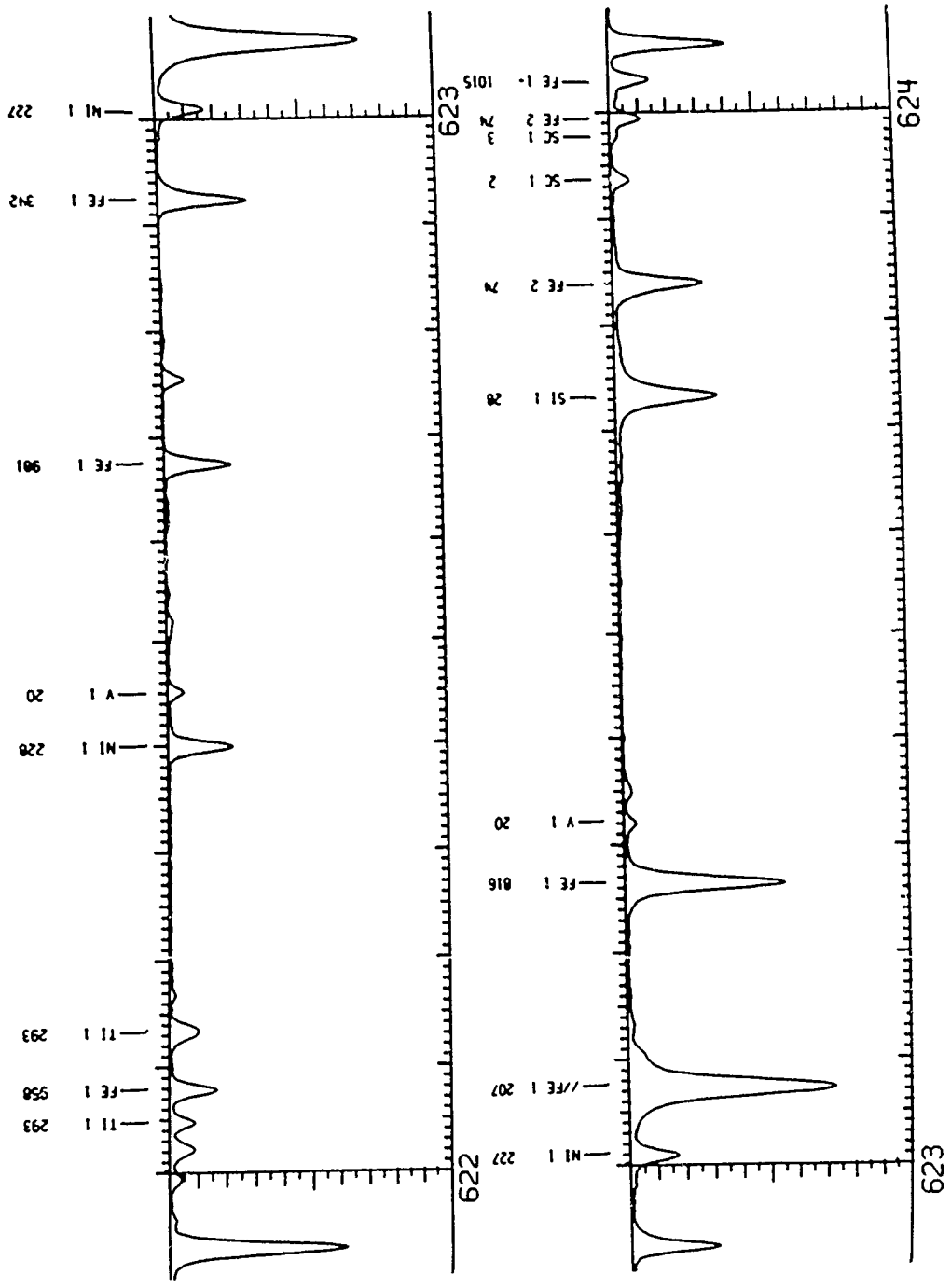
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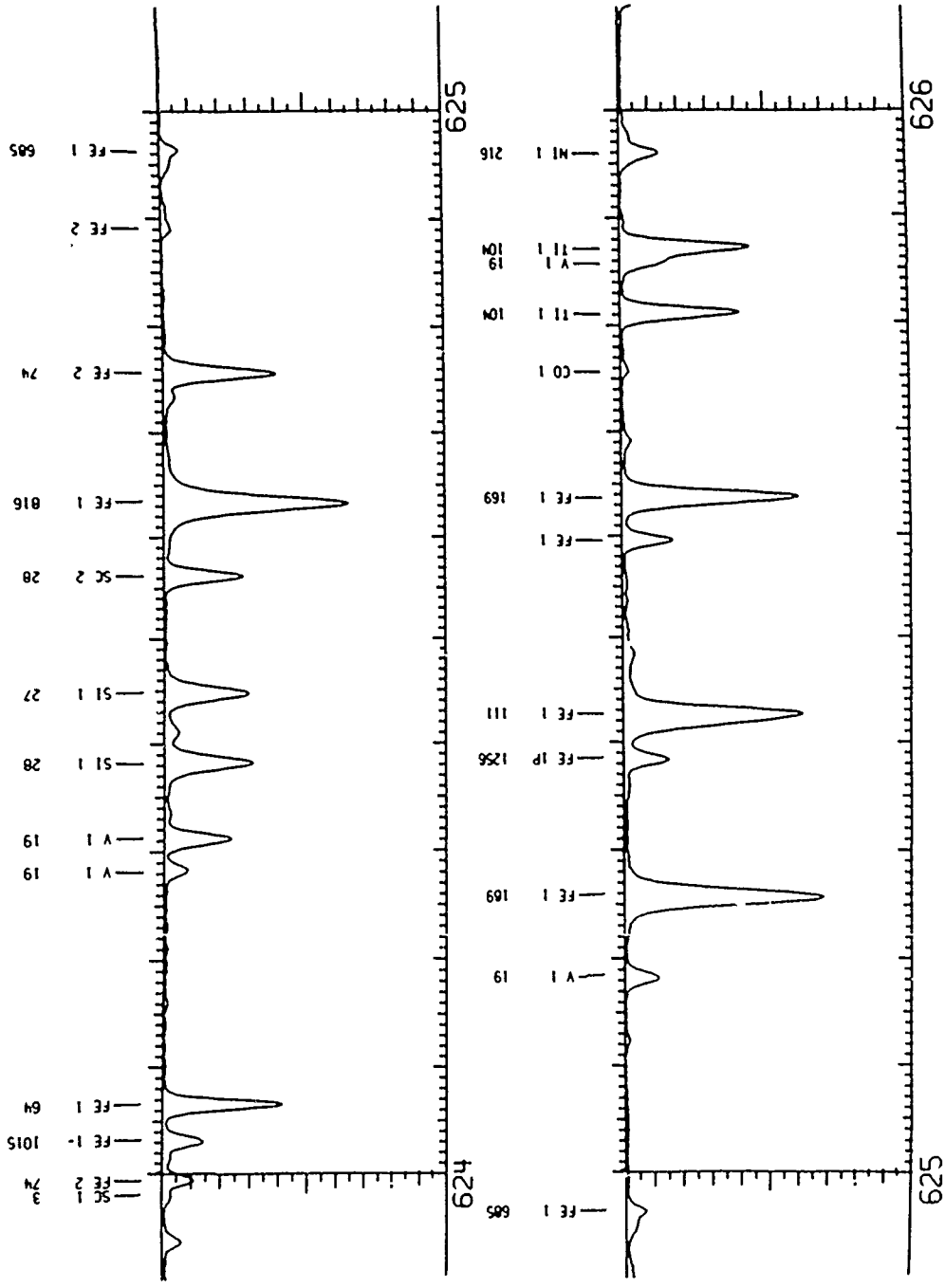
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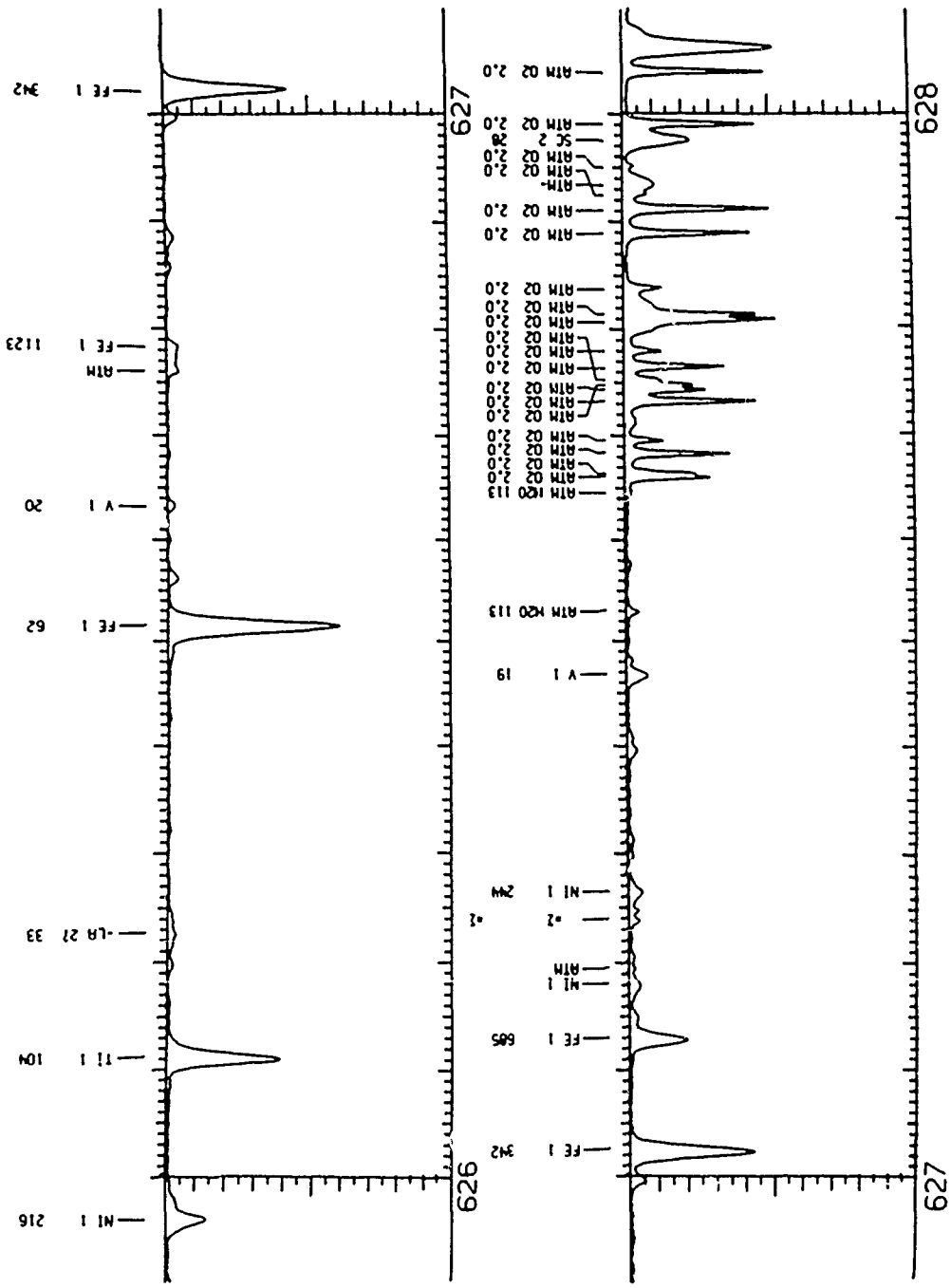
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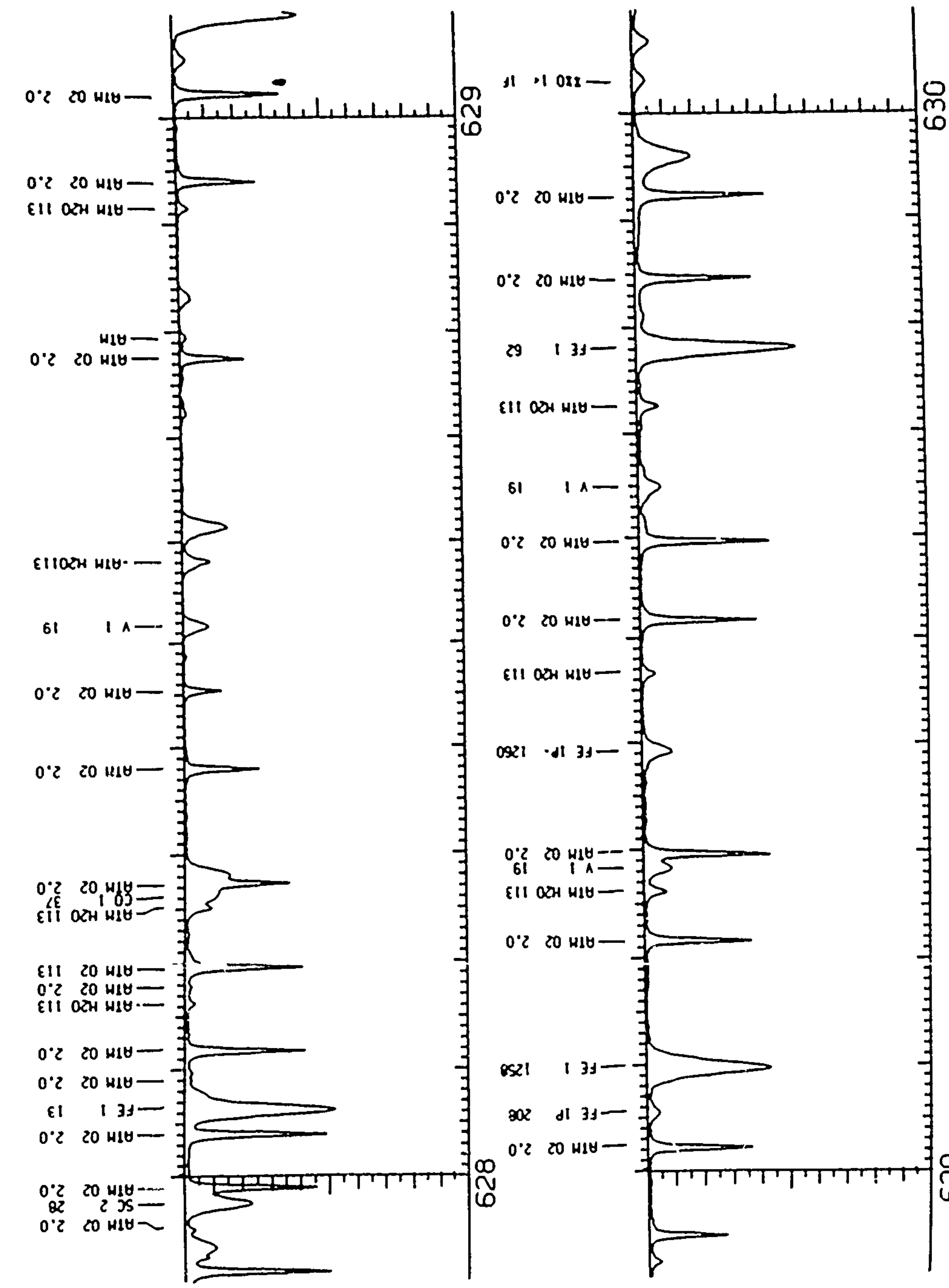
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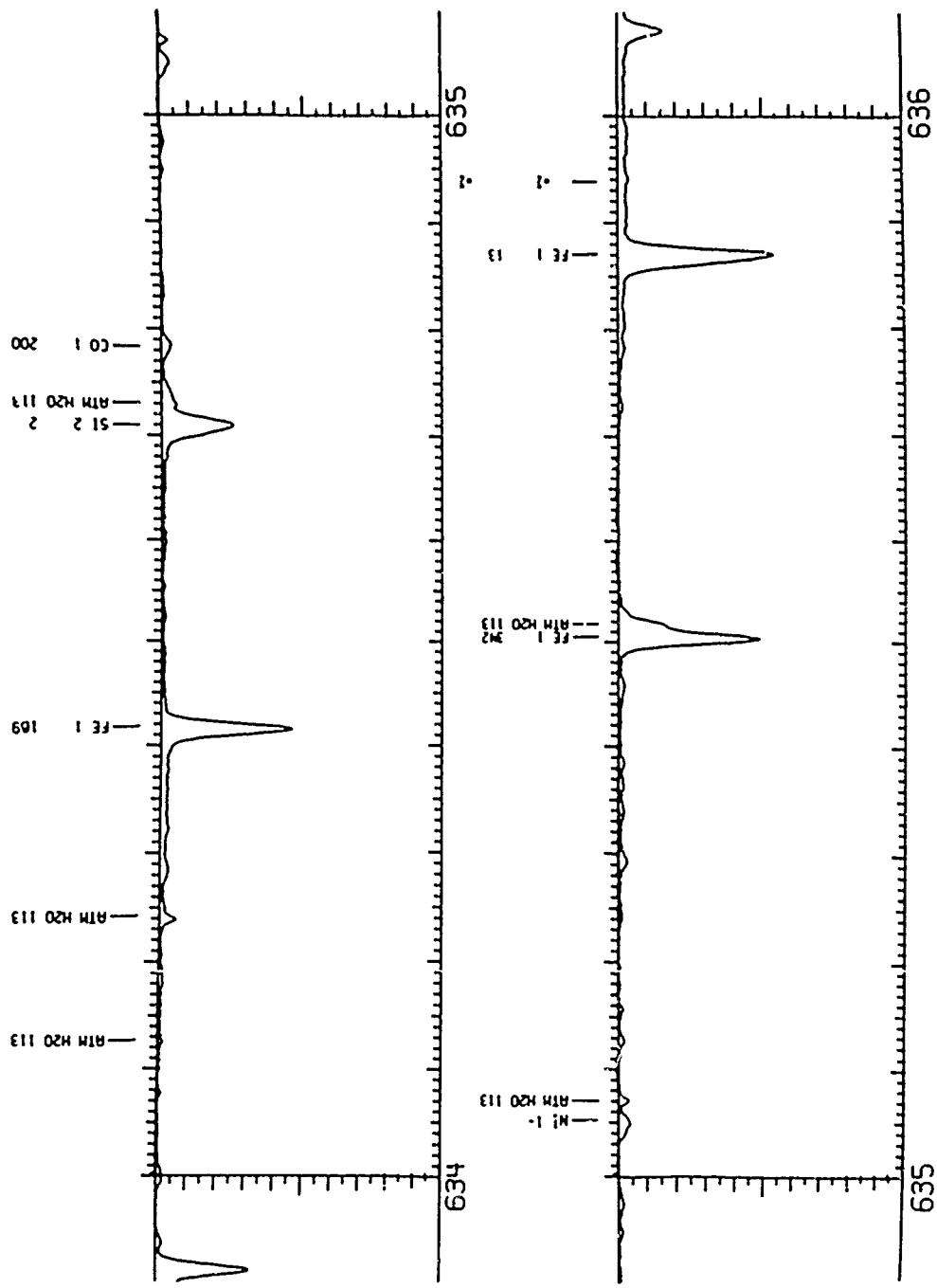
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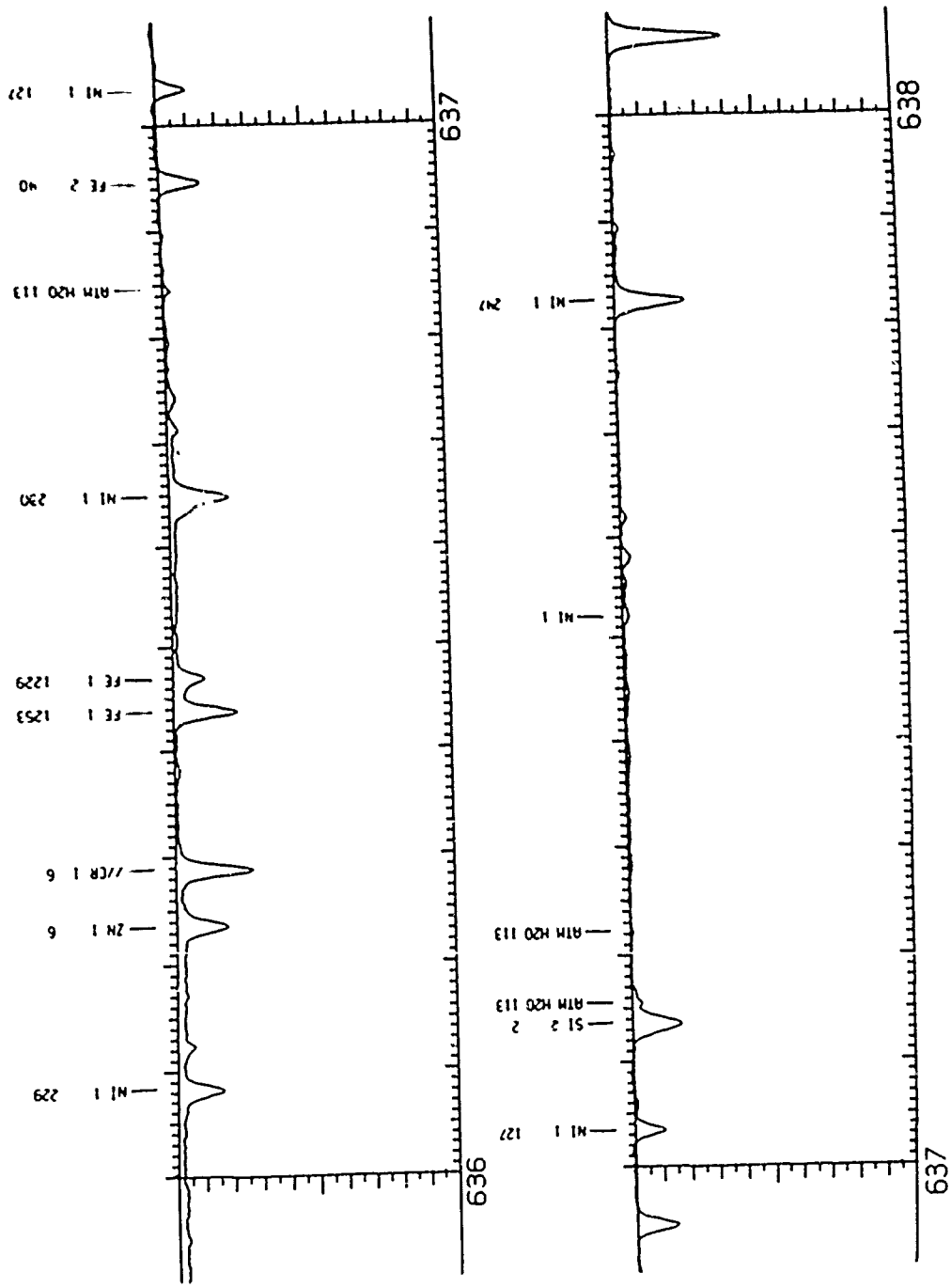
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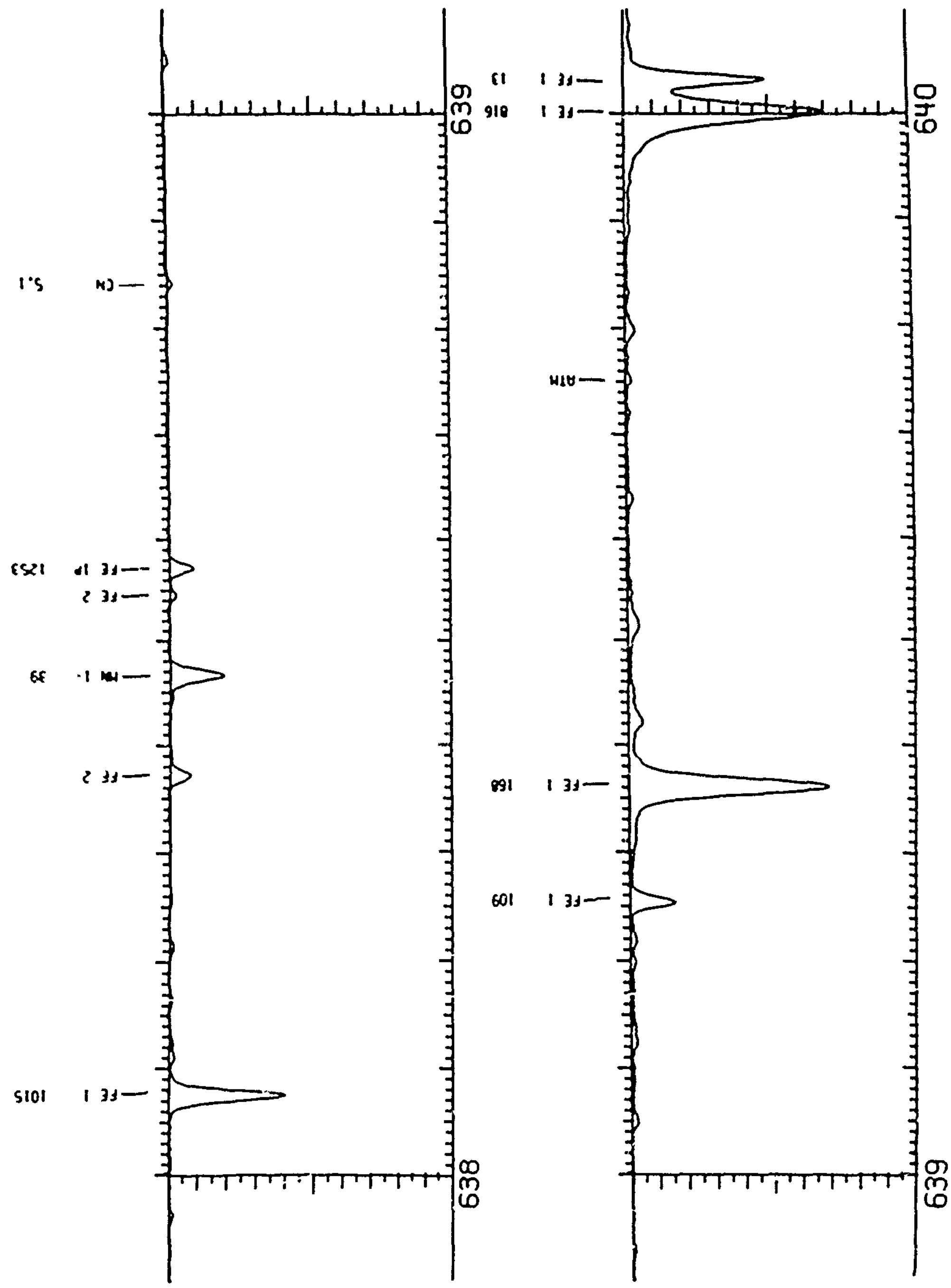
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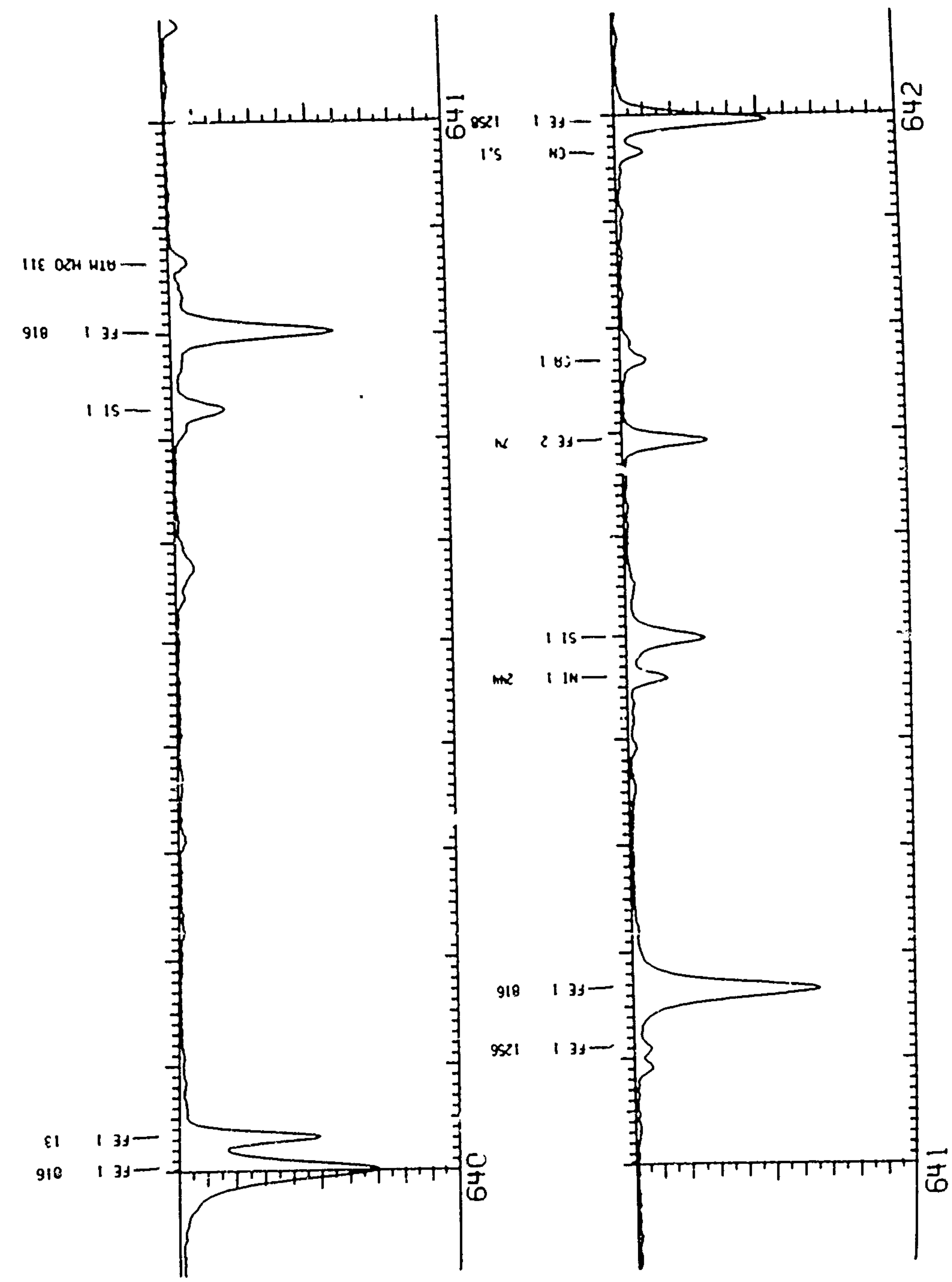

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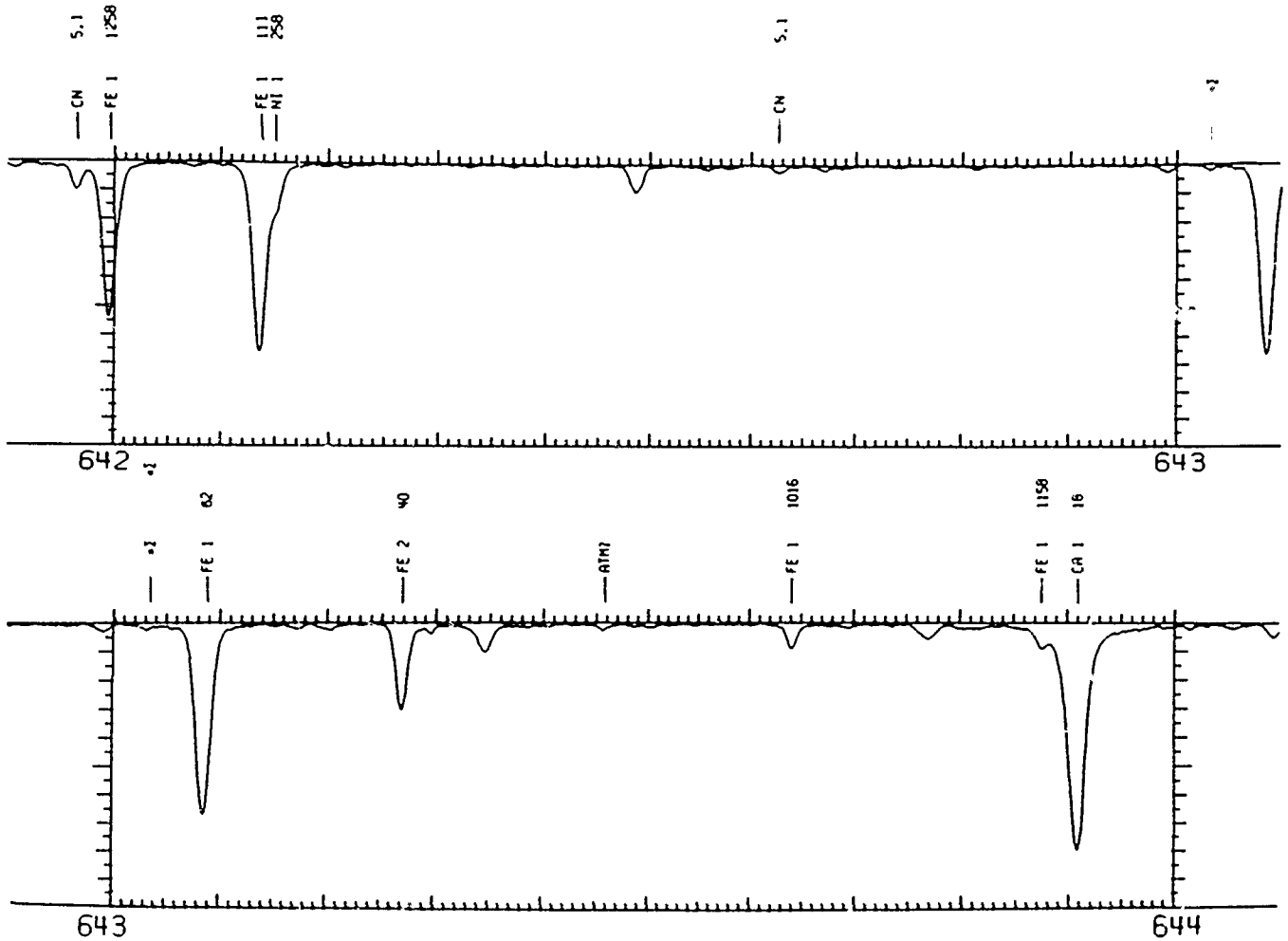
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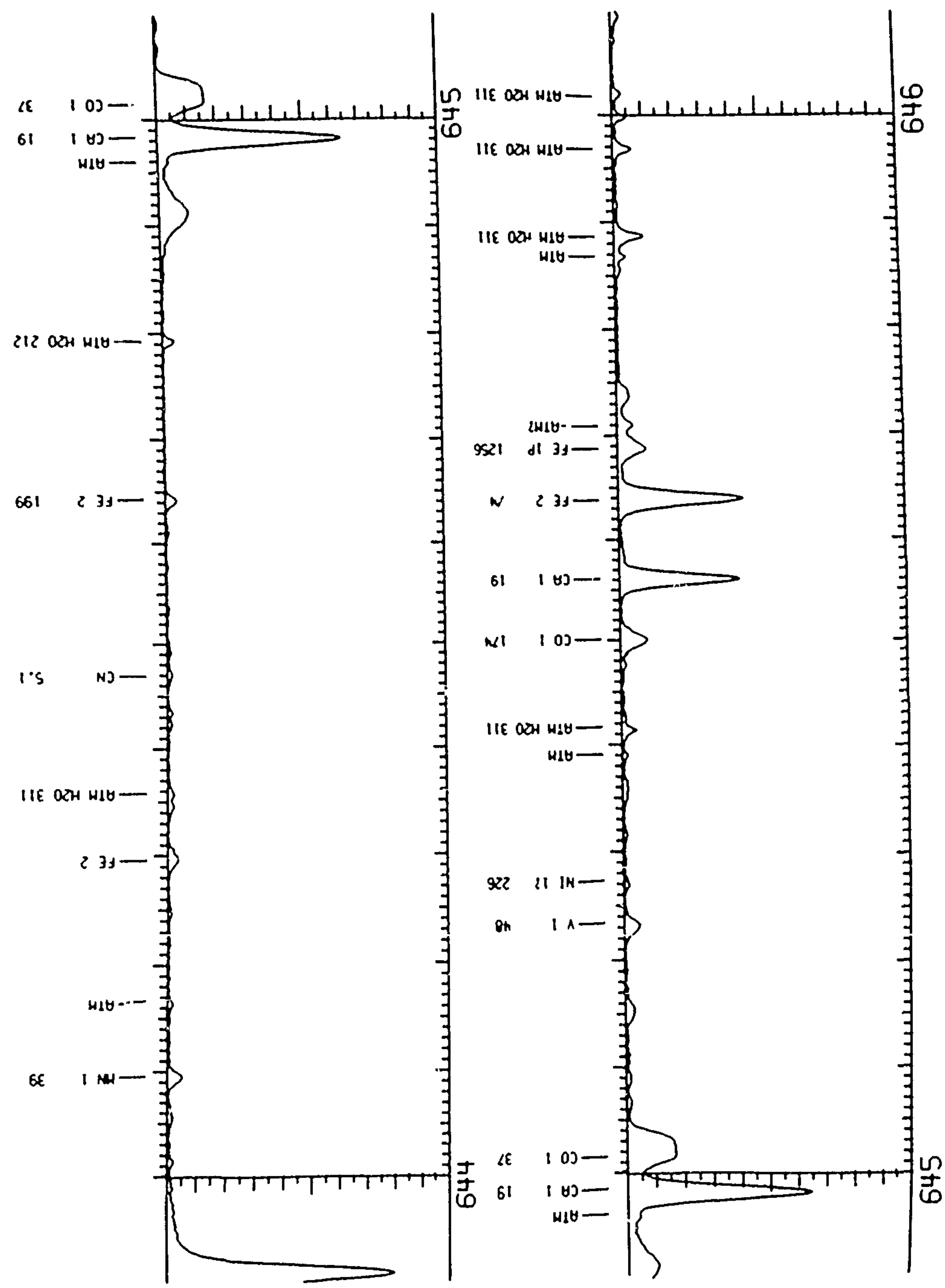
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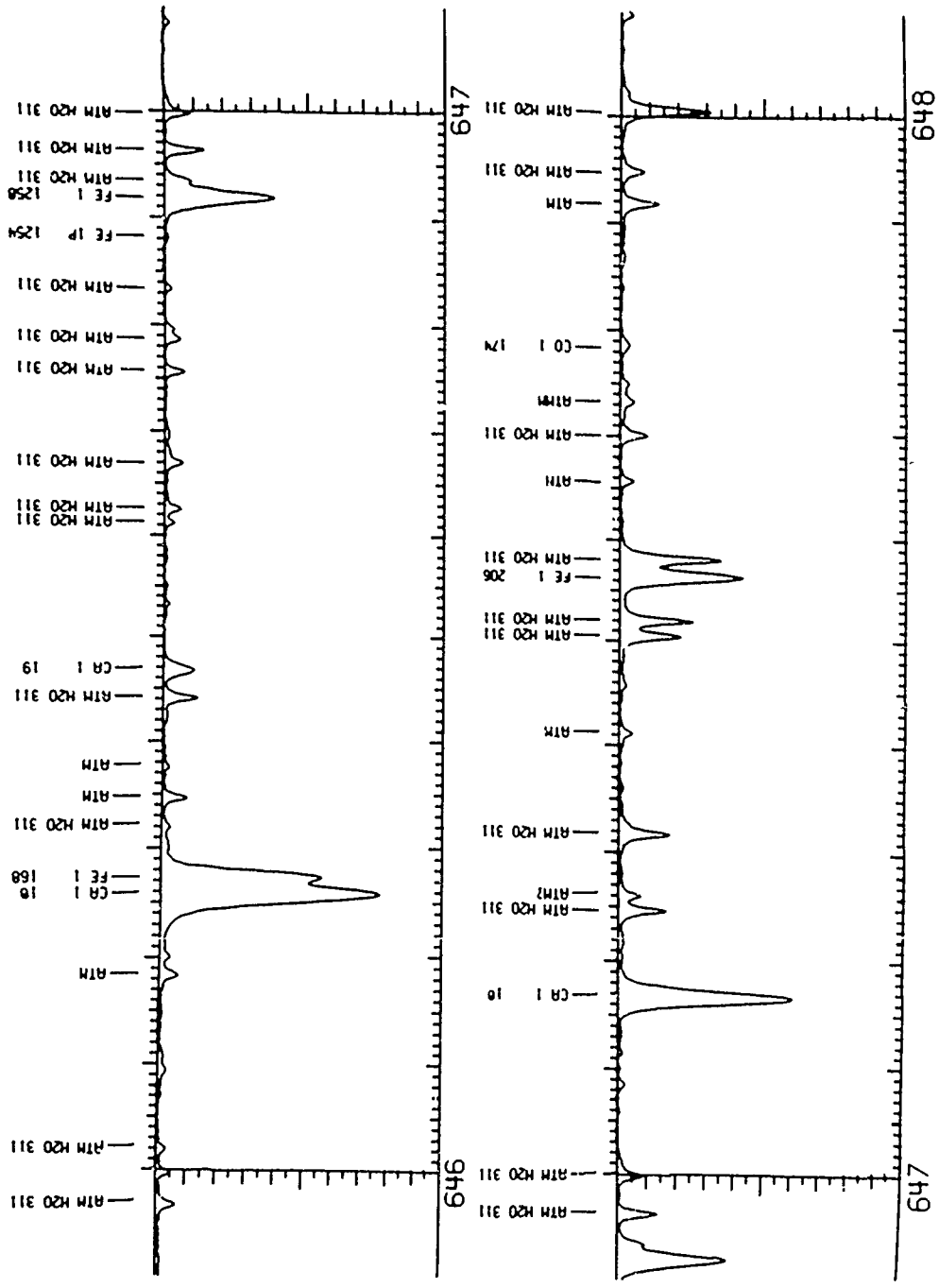
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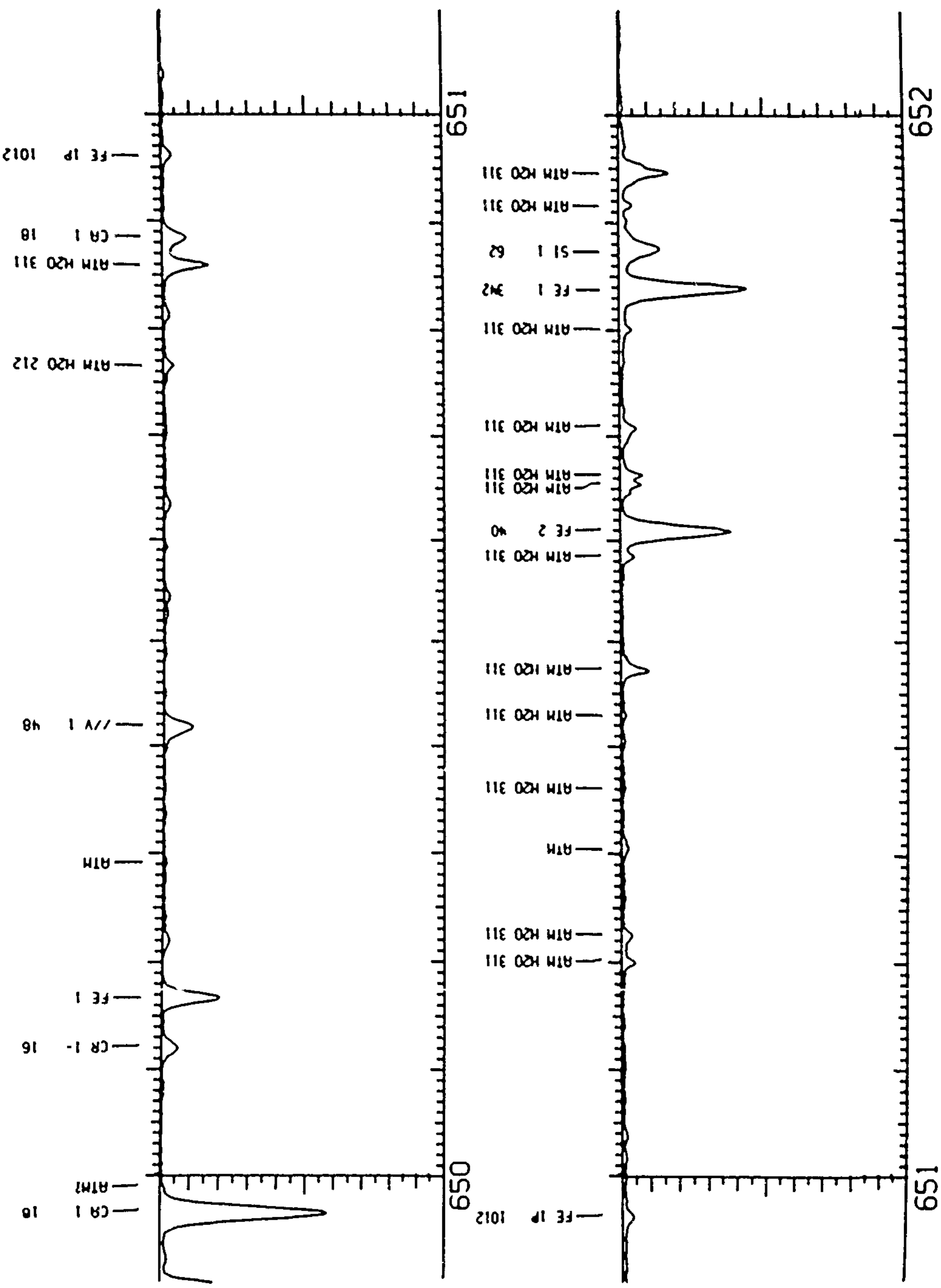

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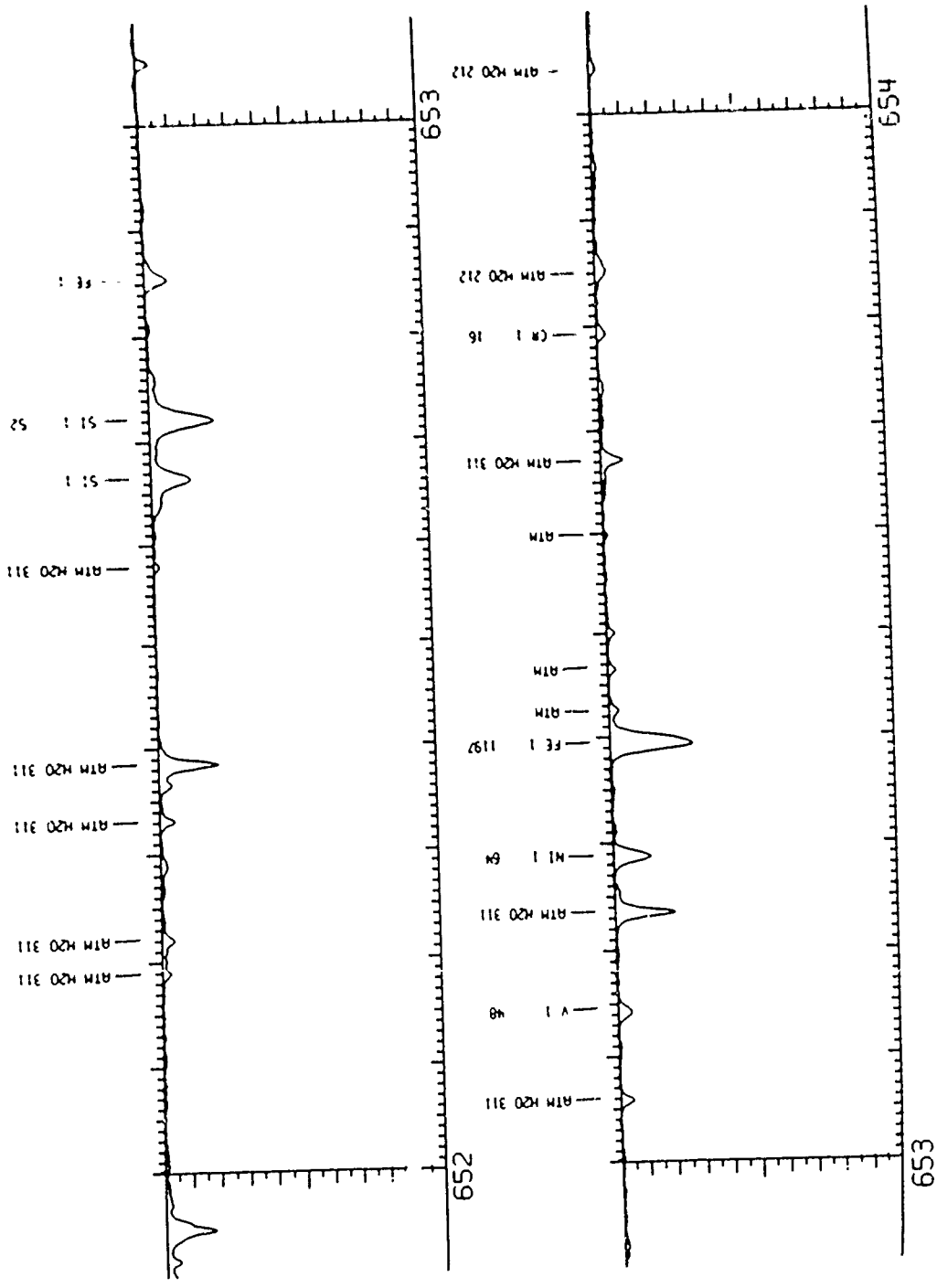
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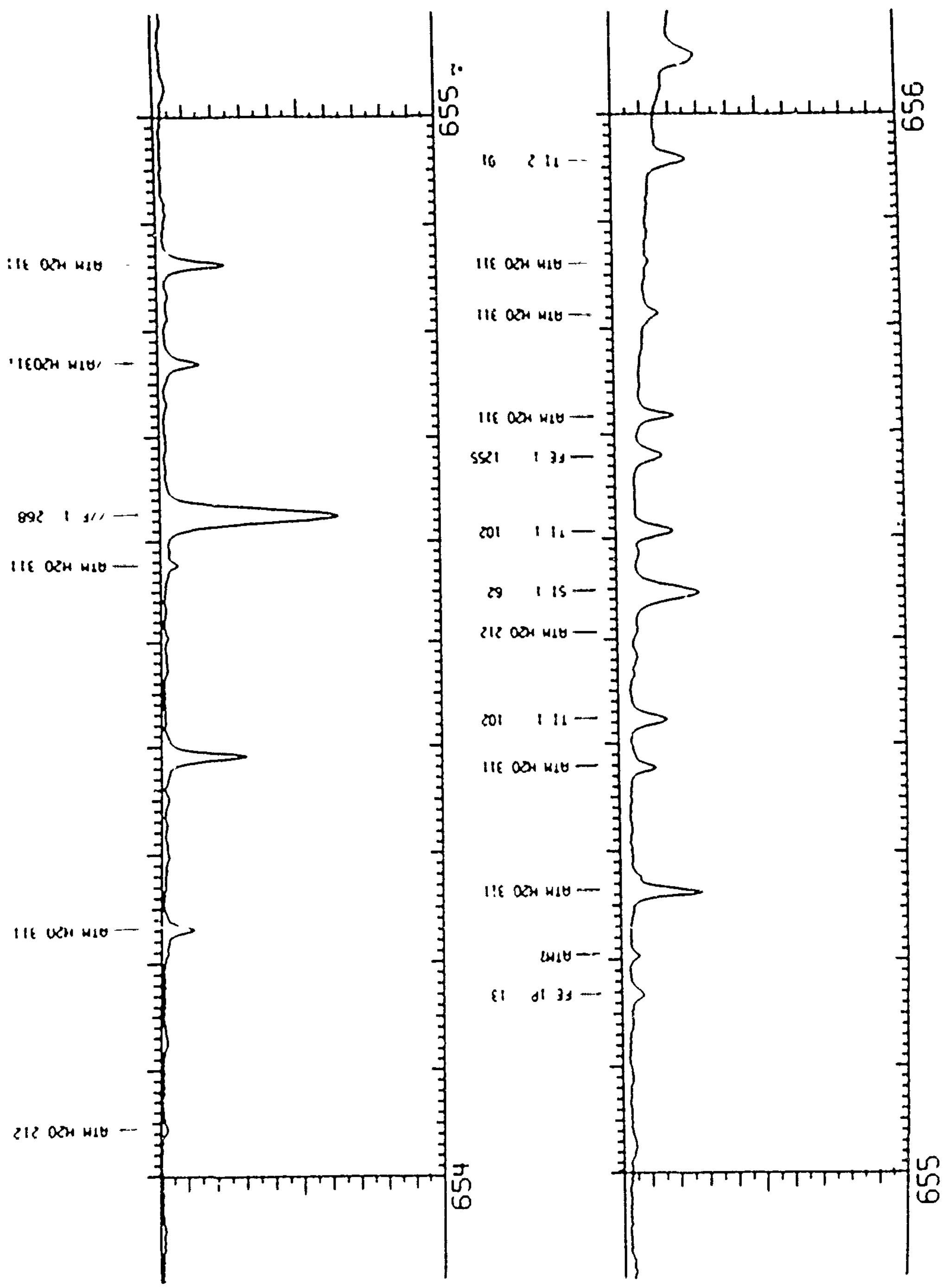

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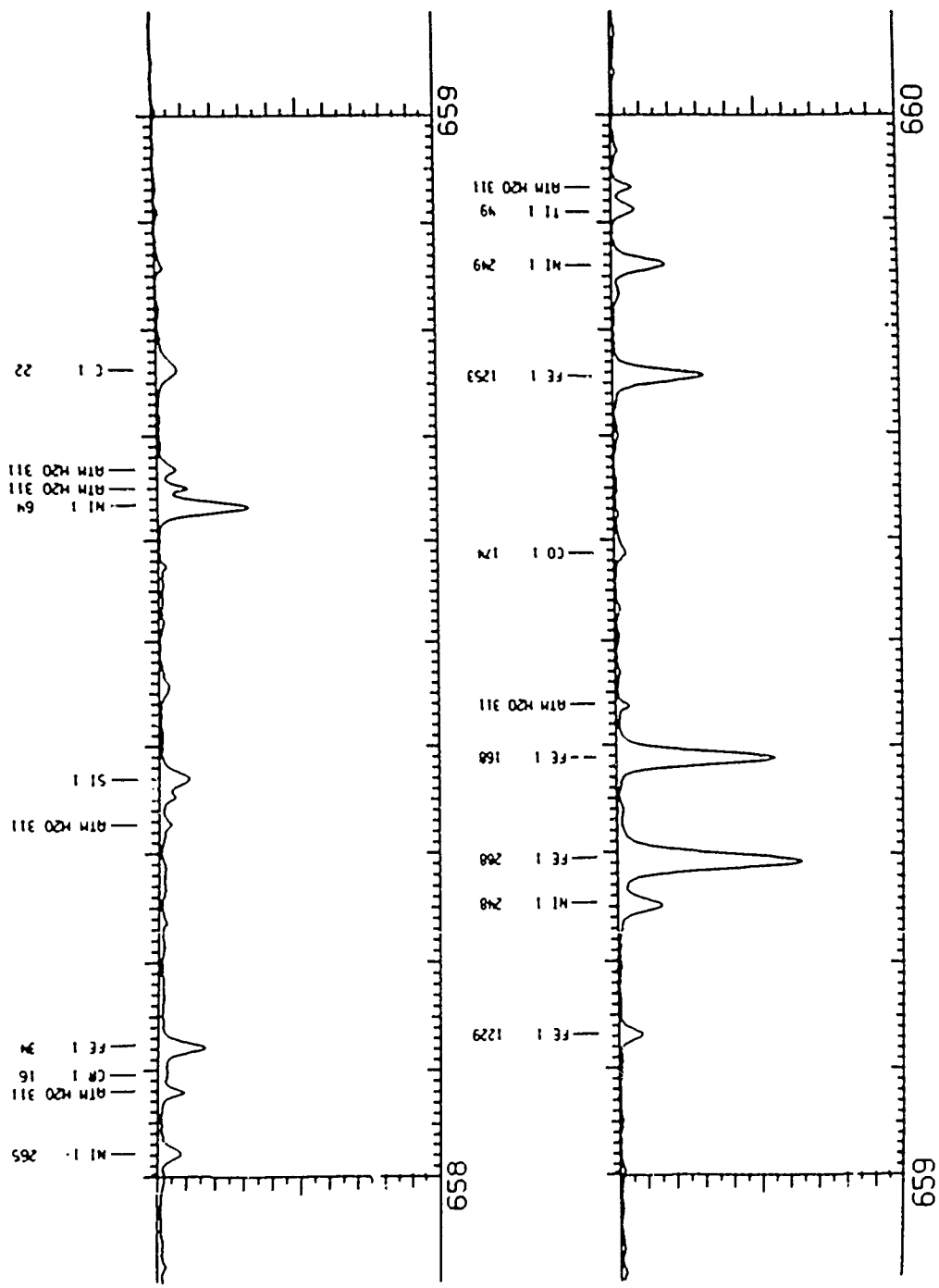
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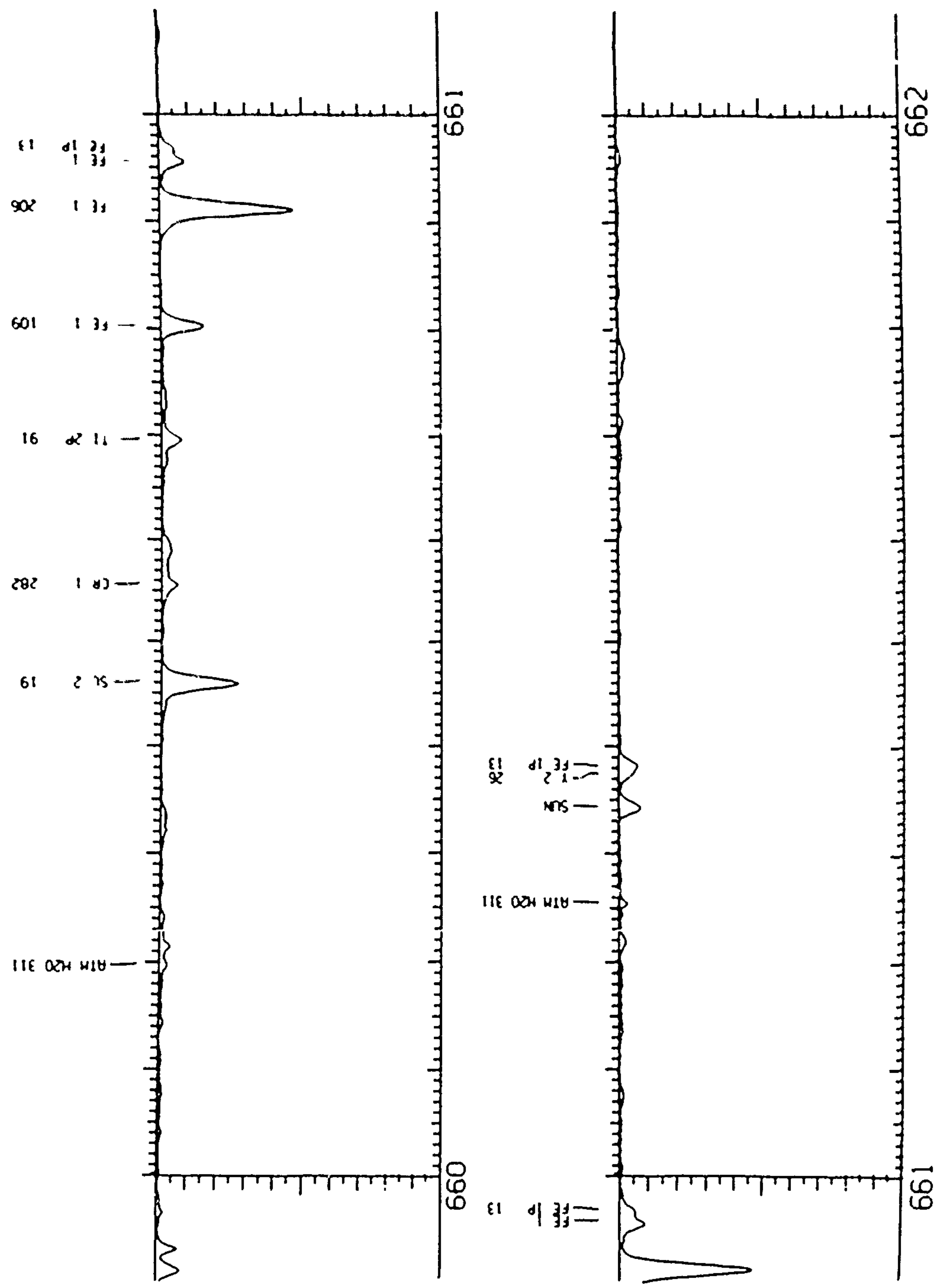
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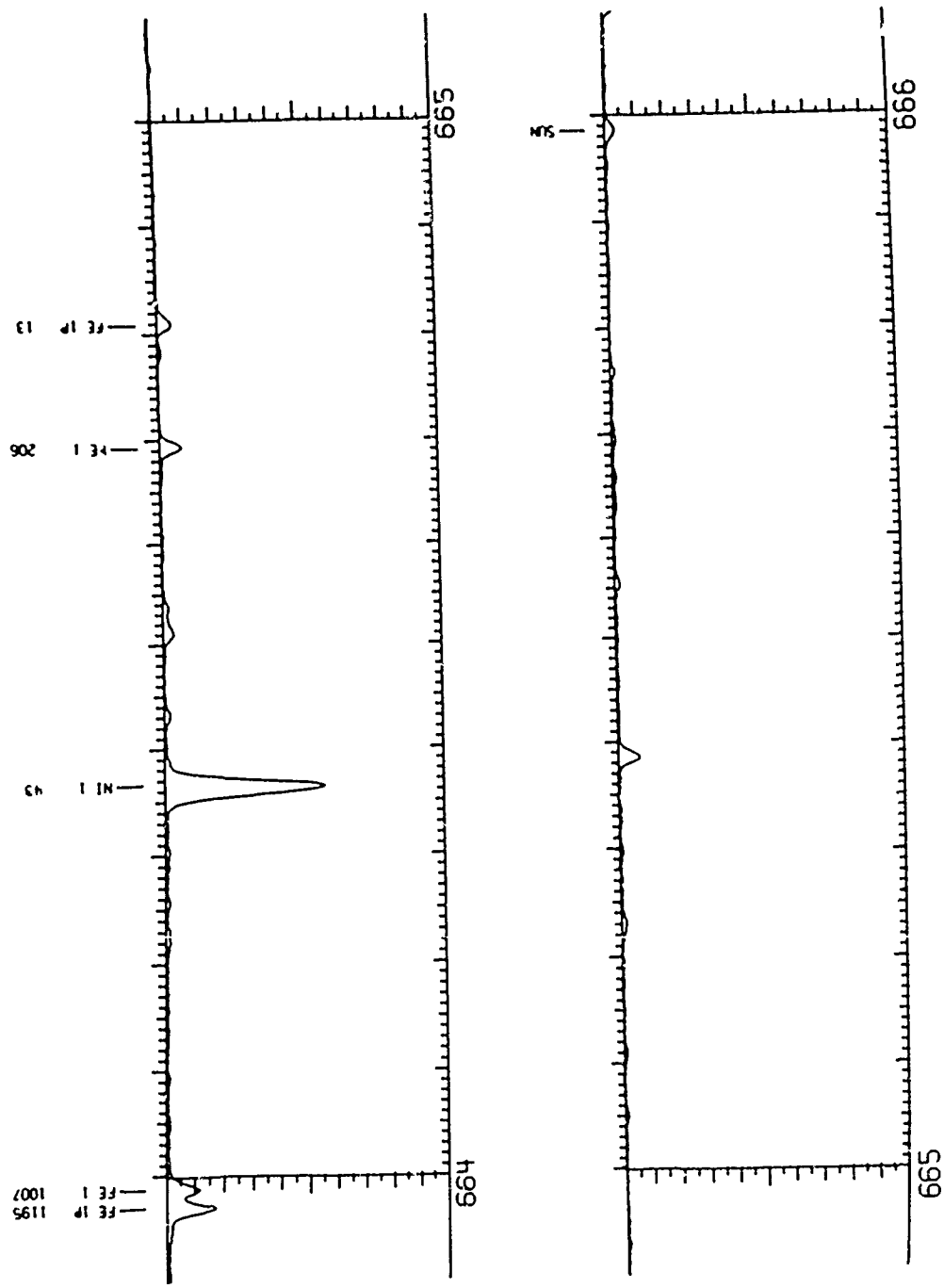
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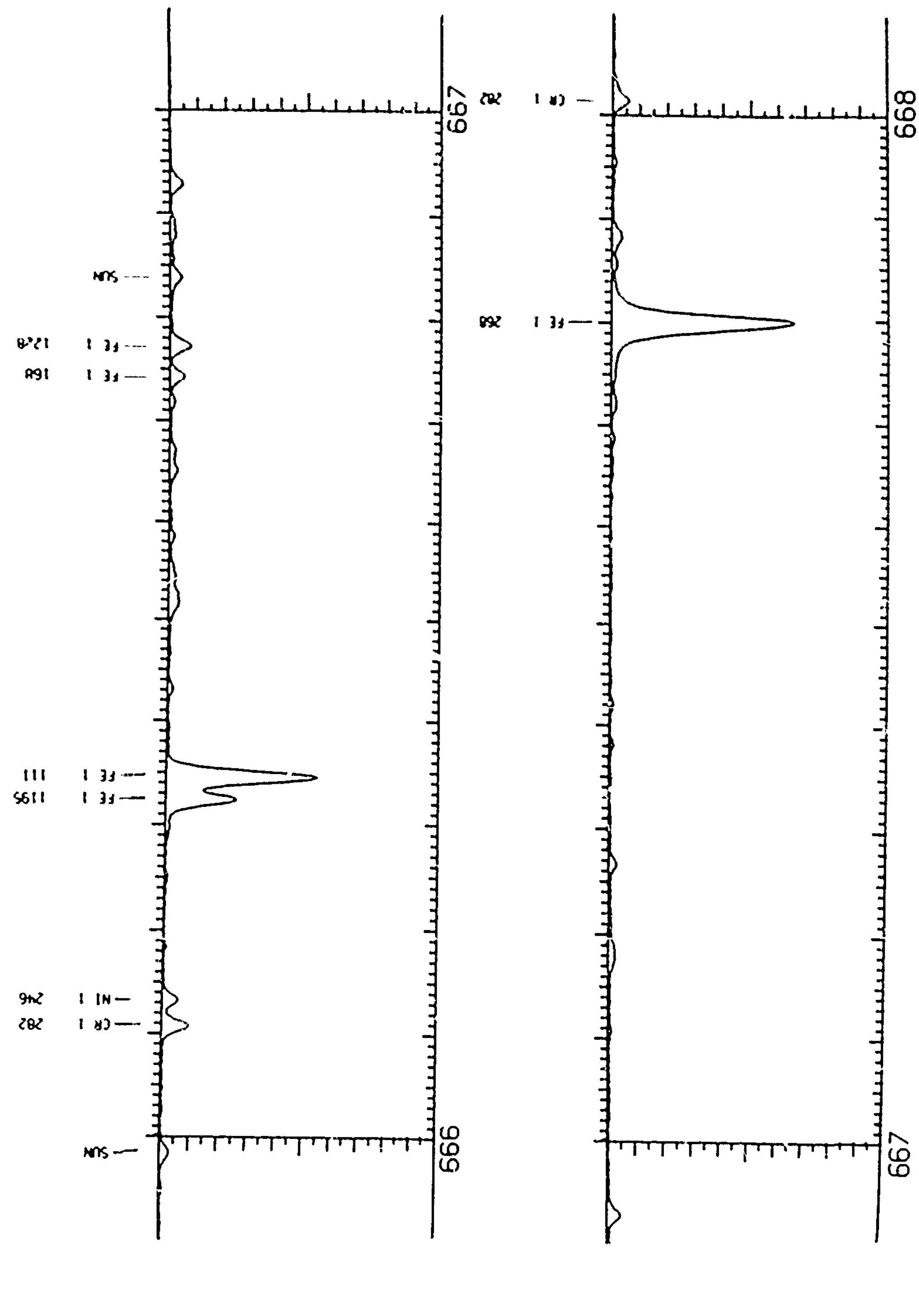
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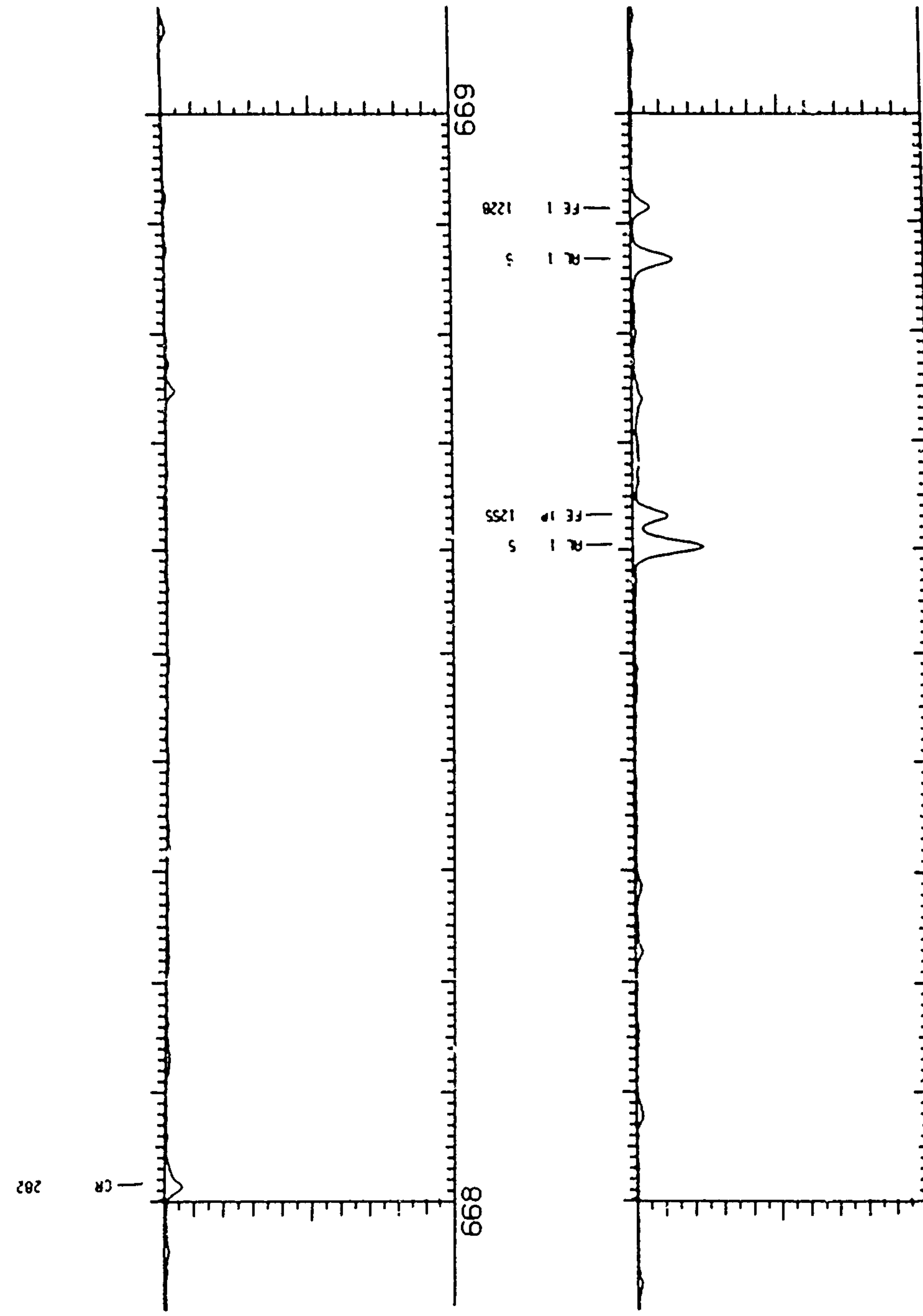
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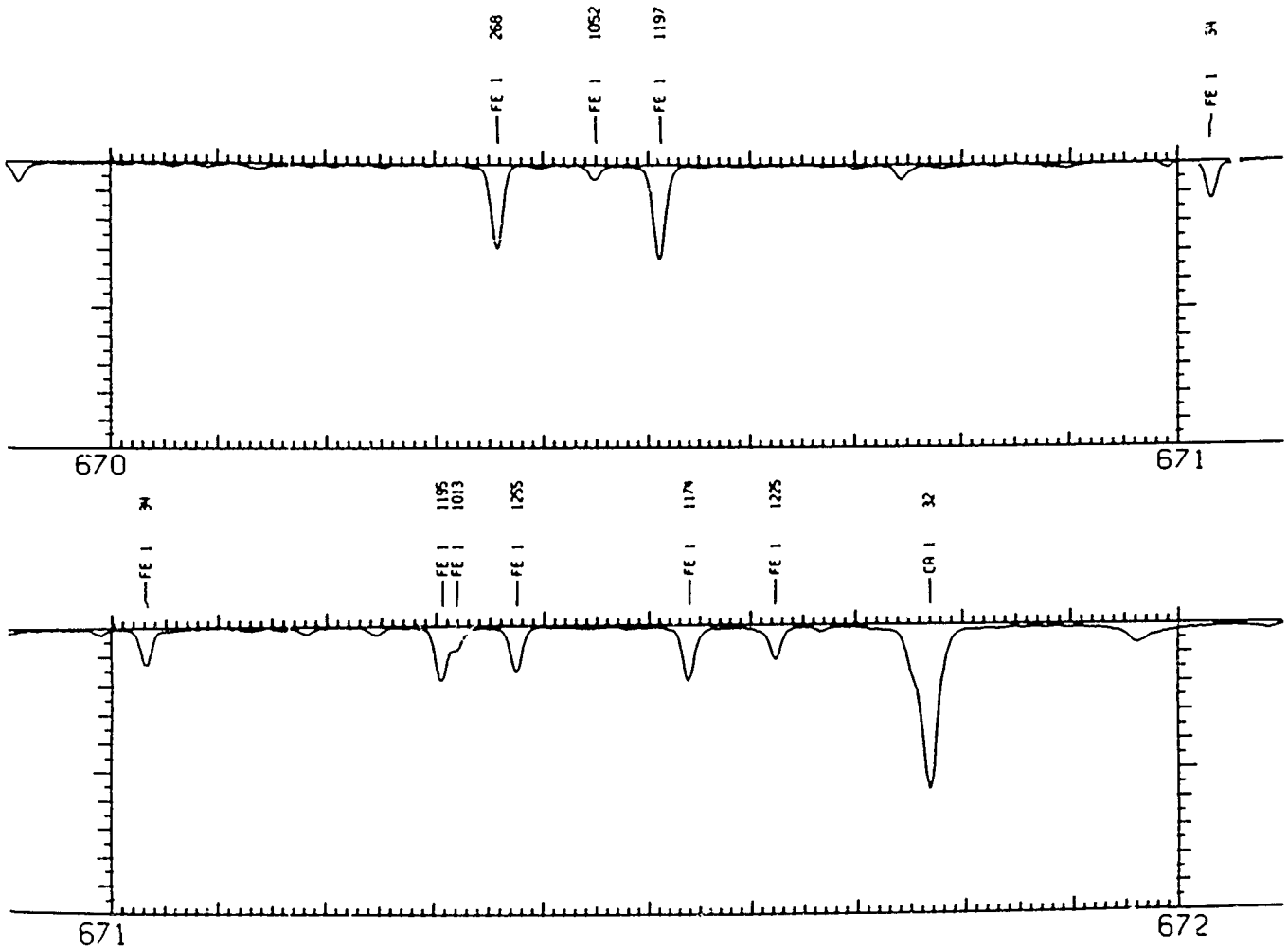
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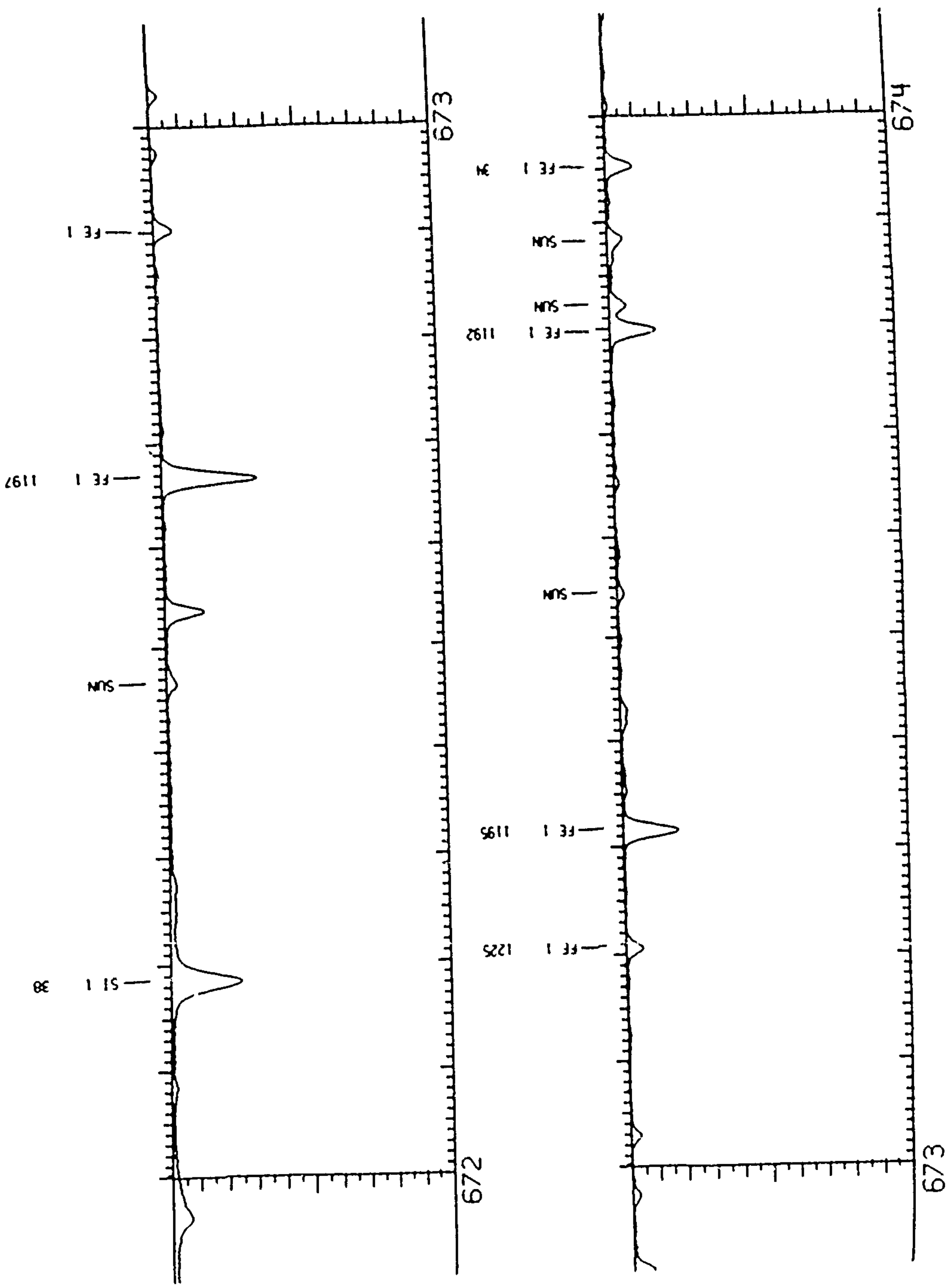
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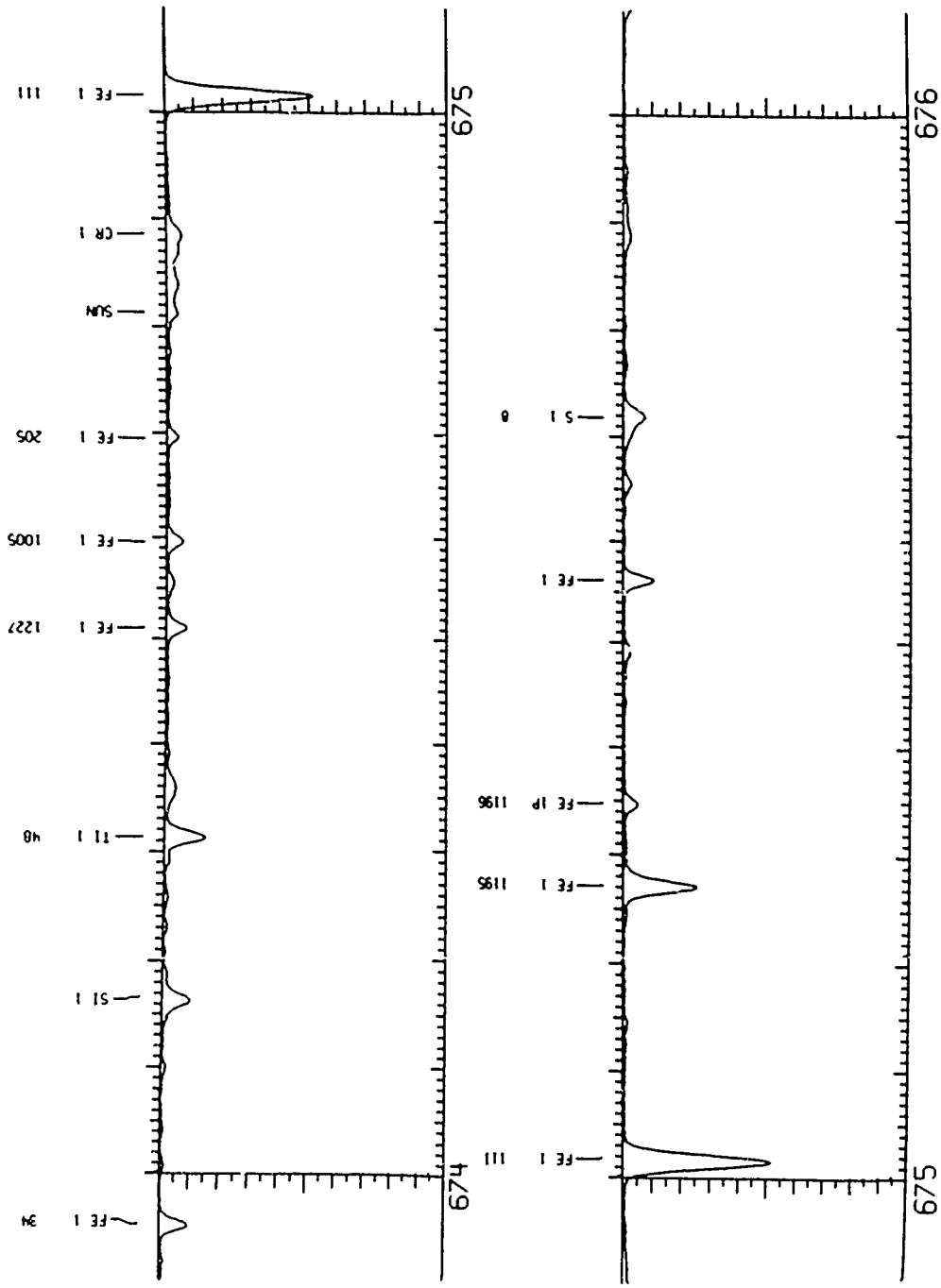
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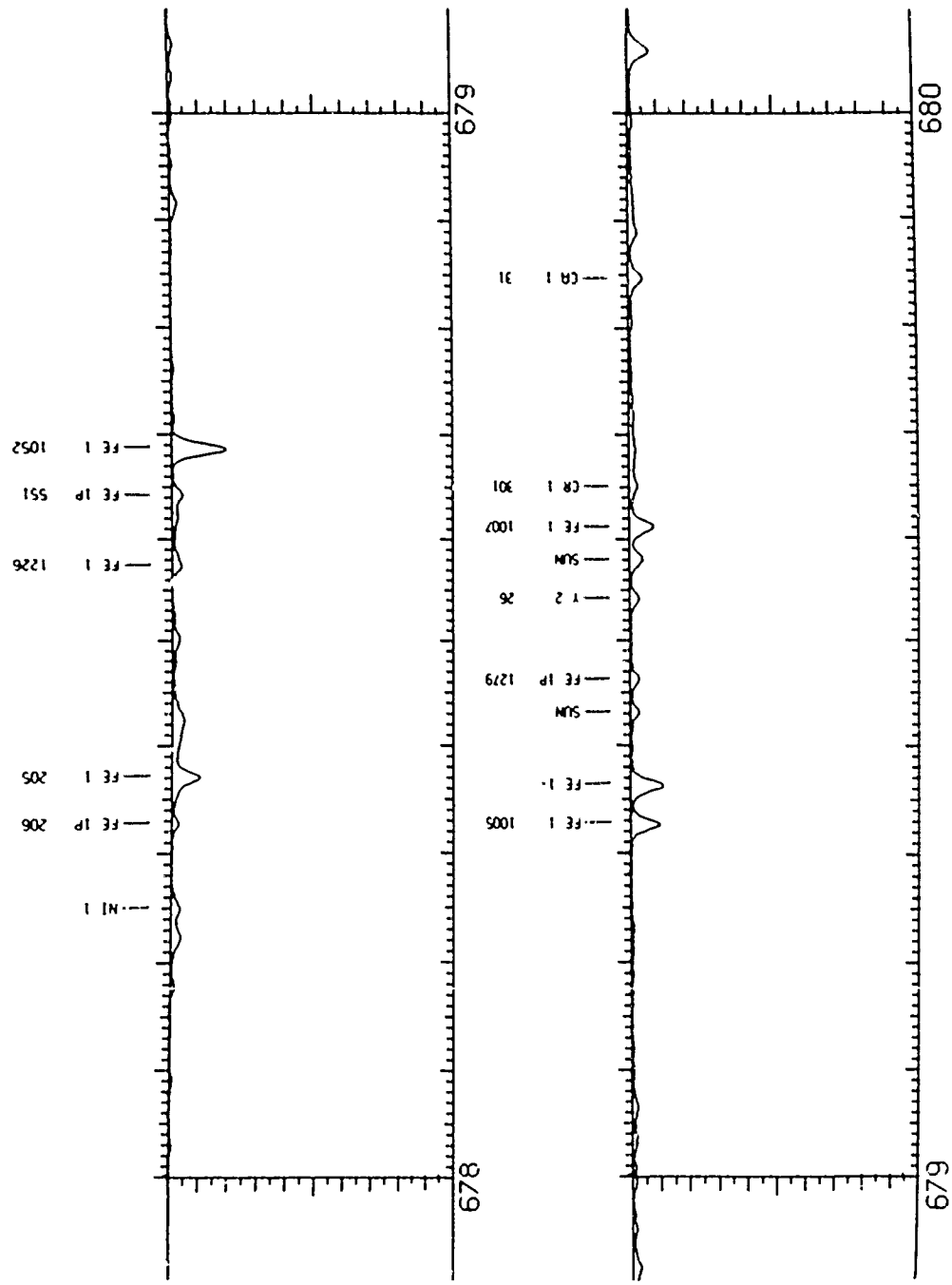
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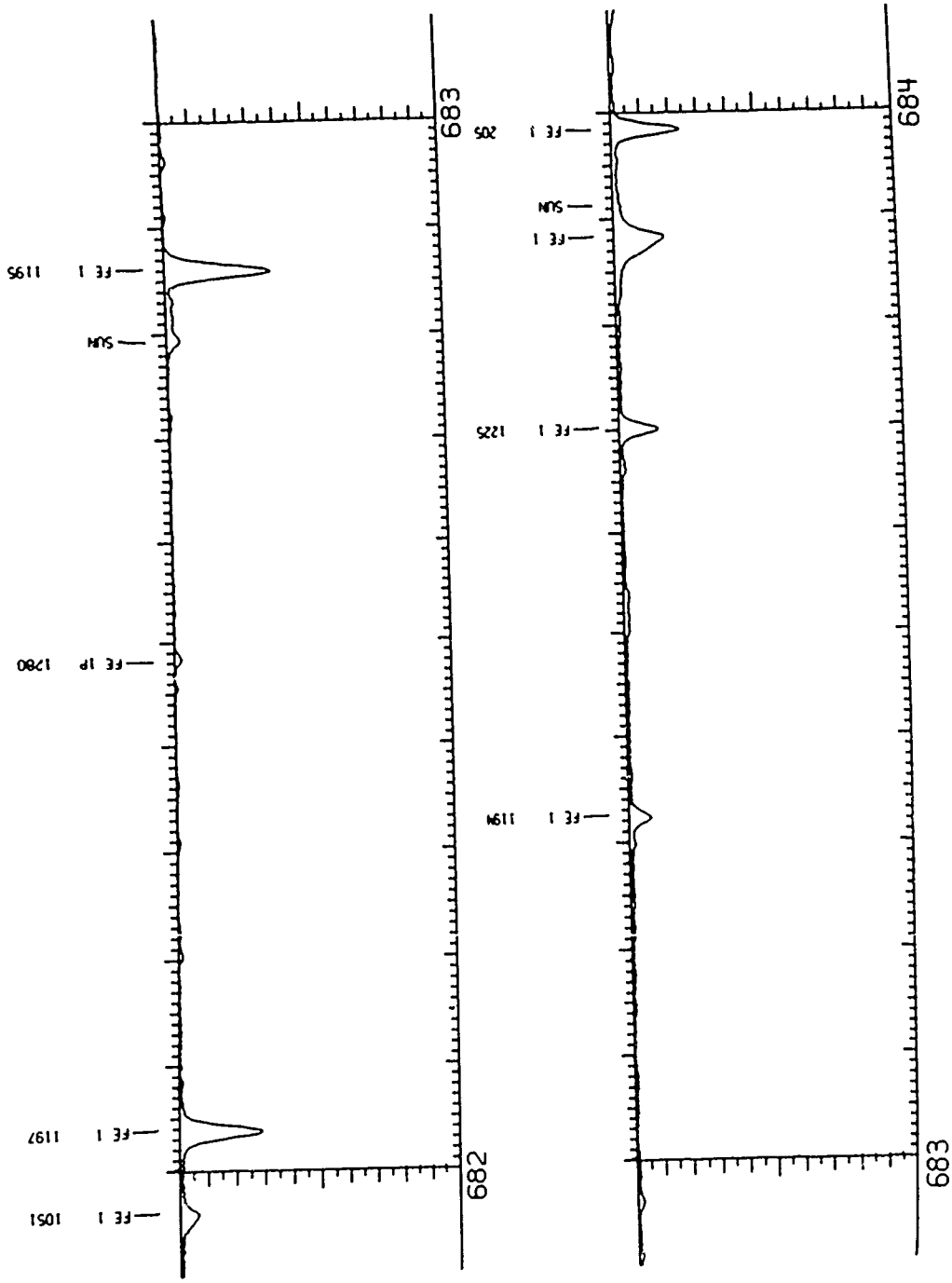
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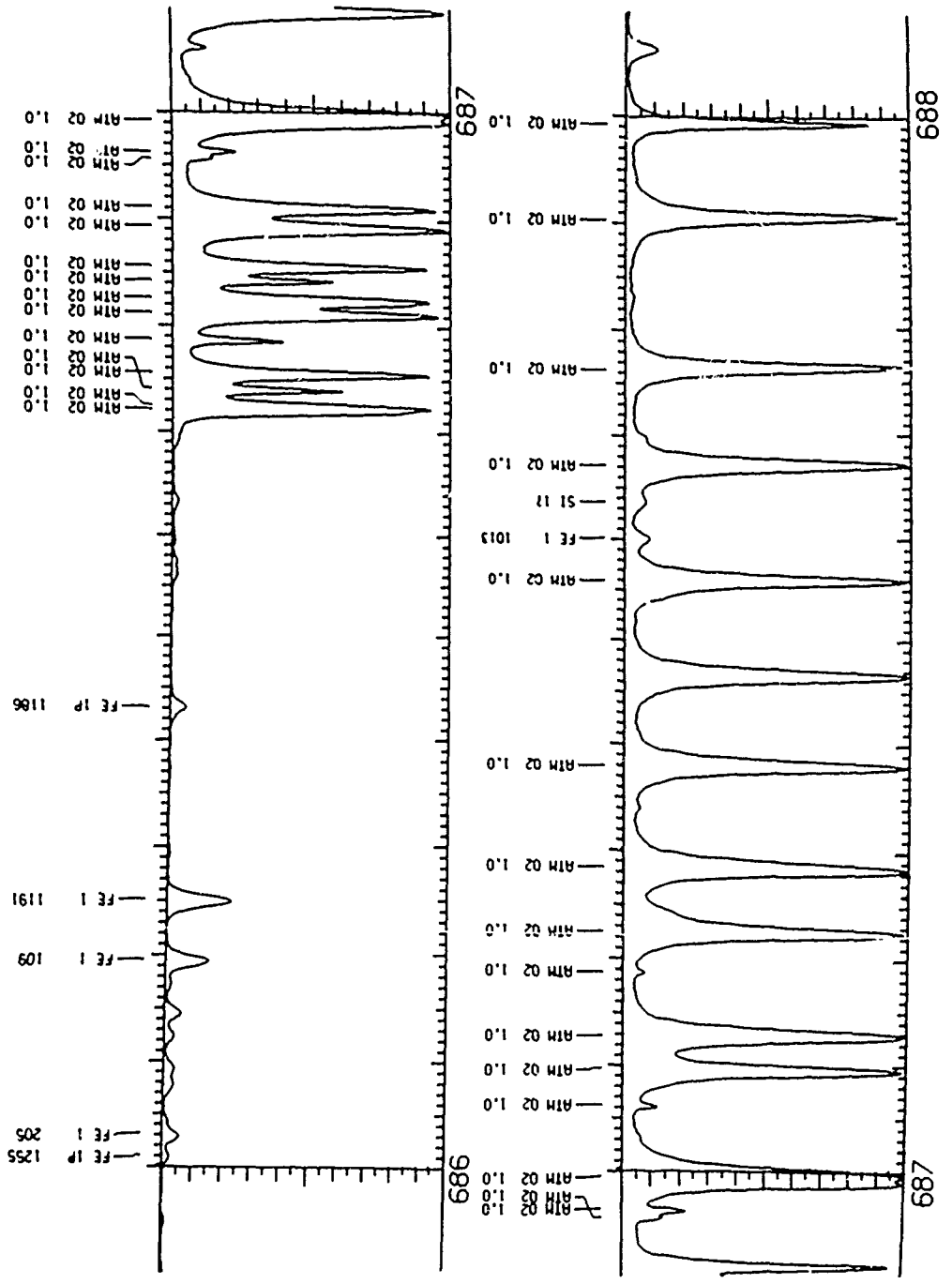
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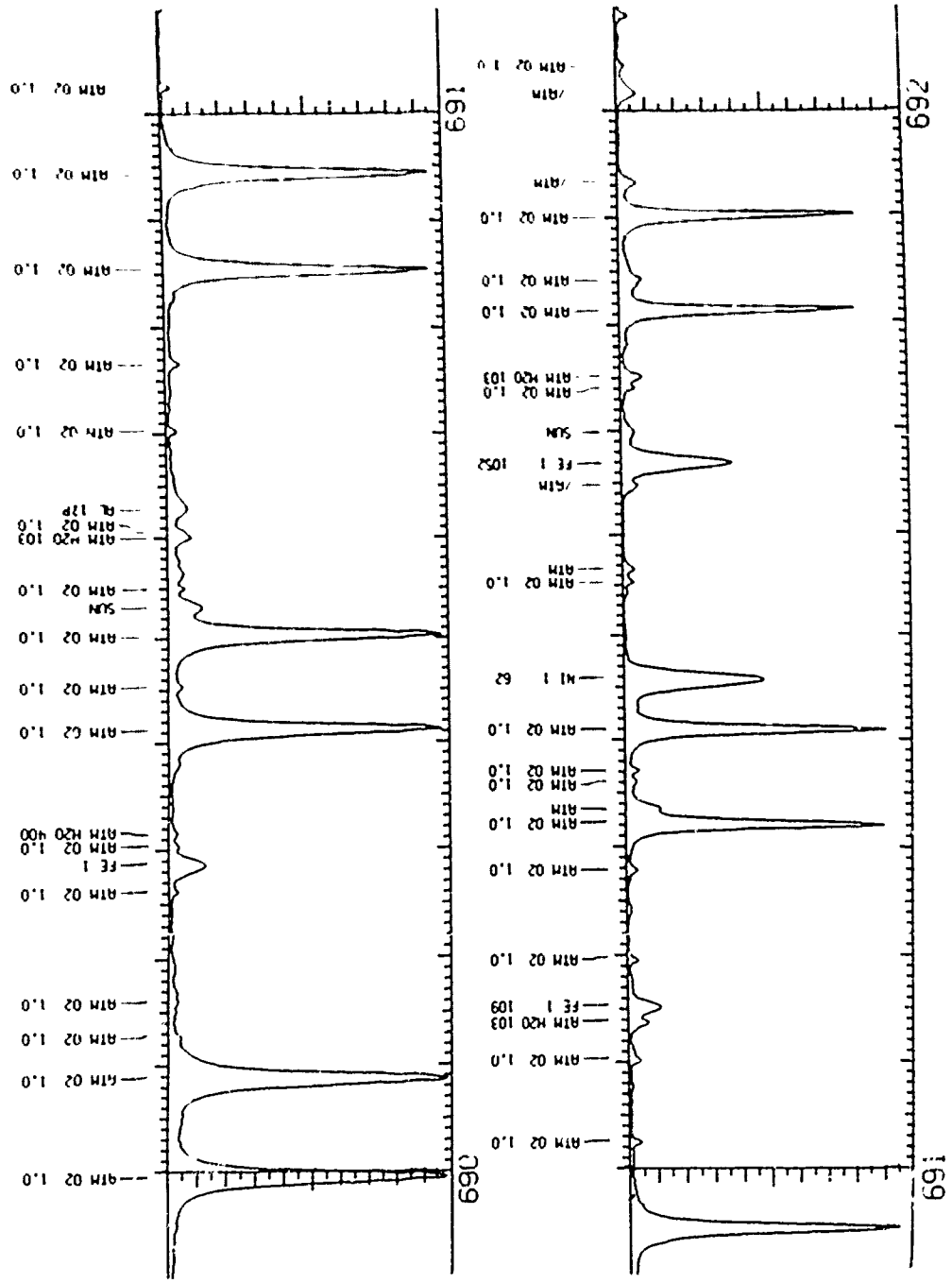

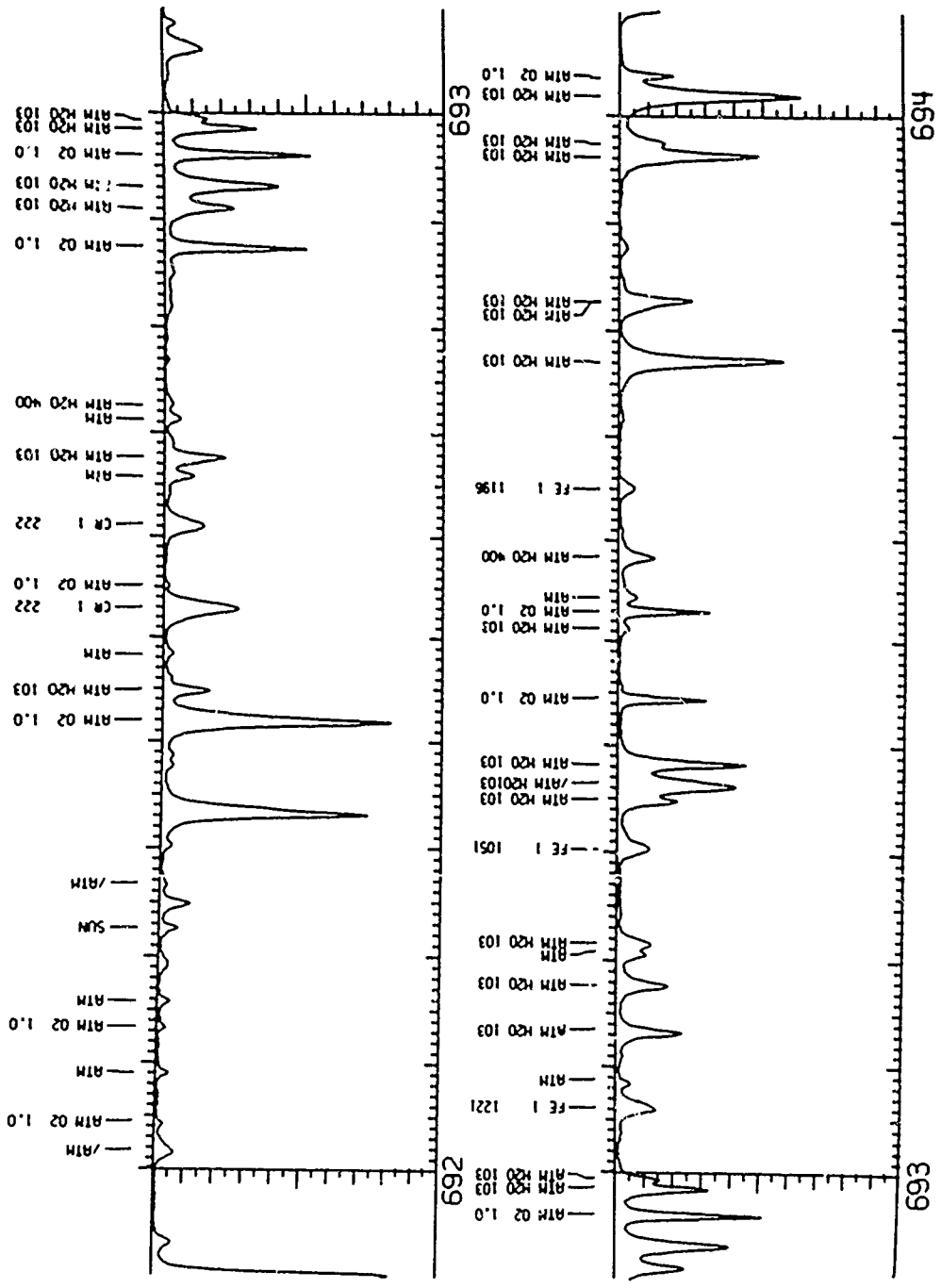
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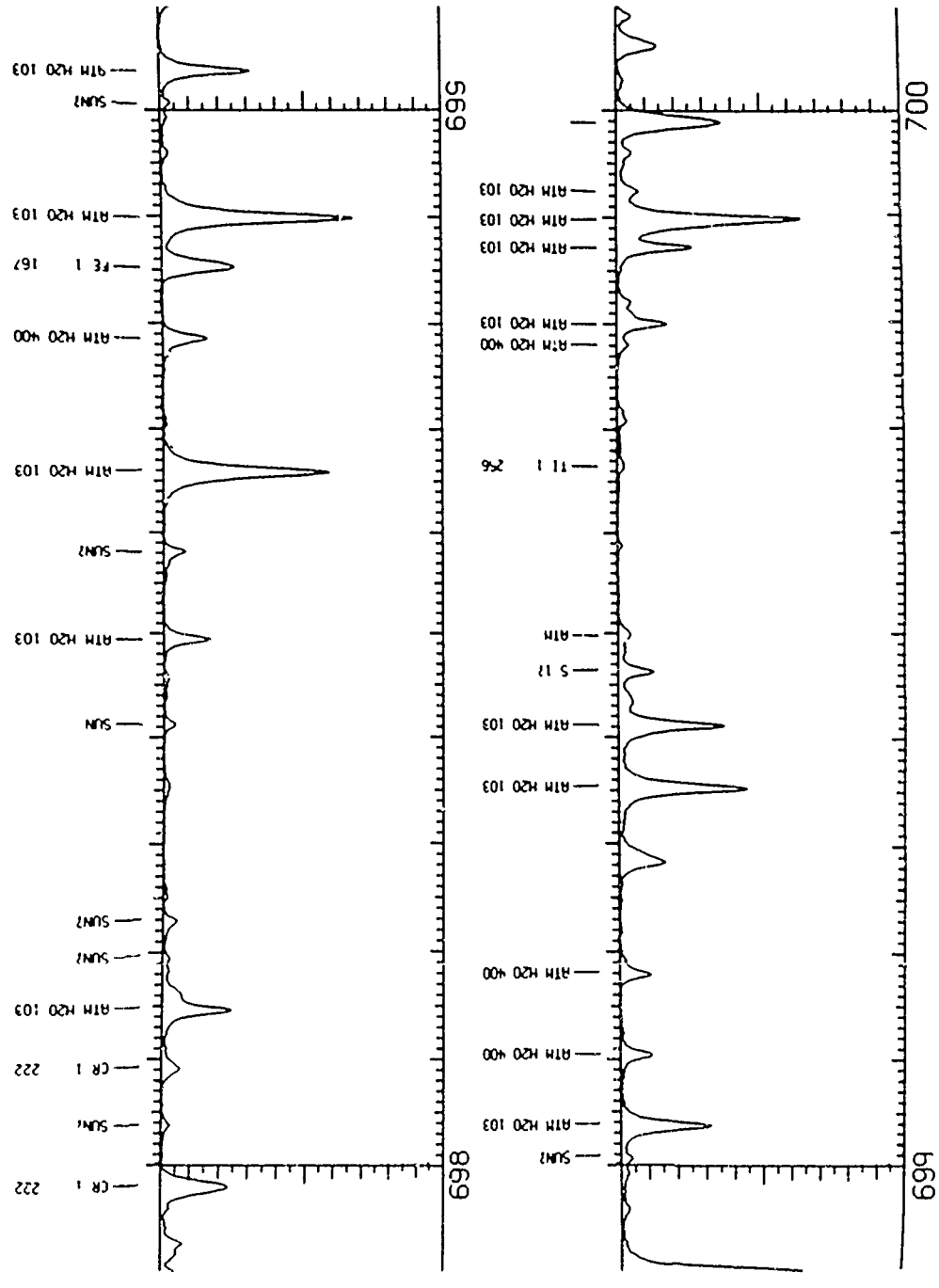
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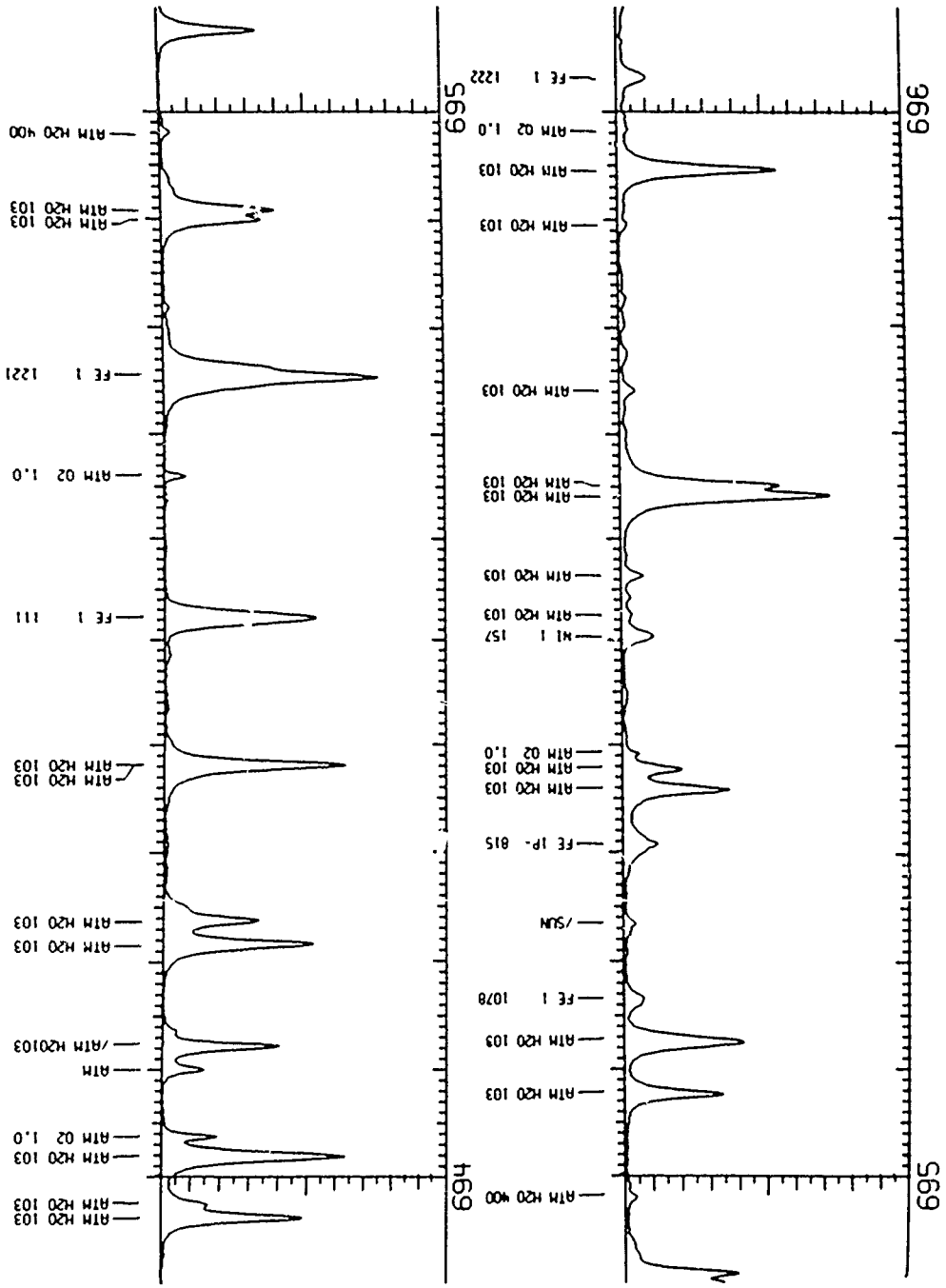

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