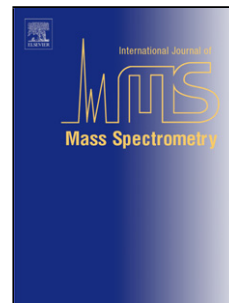


Accepted Manuscript



Title: Collision Induced Dissociation of
N-(Pyridin-2-yl)-Substituted Benzo(Thio)amides and
N-(Isoquinolin-1-yl)Furan(Thiophene)-2-Carboxamides and
their Difluoroboranyl Derivatives

Authors: Małgorzata A. Kaczorowska, Borys Ośmiałowski

PII: S1387-3806(17)30432-3
DOI: <https://doi.org/10.1016/j.ijms.2018.02.006>
Reference: MASPEC 15929

To appear in: *International Journal of Mass Spectrometry*

Received date: 20-10-2017
Revised date: 11-1-2018
Accepted date: 16-2-2018

Please cite this article as: Małgorzata A.Kaczorowska, Borys Ośmiałowski, Collision Induced Dissociation of N-(Pyridin-2-yl)-Substituted Benzo(Thio)amides and N-(Isoquinolin-1-yl)Furan(Thiophene)-2-Carboxamides and their Difluoroboranyl Derivatives, International Journal of Mass Spectrometry <https://doi.org/10.1016/j.ijms.2018.02.006>

This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting proof before it is published in its final form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain.

Collision Induced Dissociation of N-(Pyridin-2-yl)-Substituted Benzo(Thio)amides and N-(Isoquinolin-1-yl)Furan(Thiophene)-2-Carboxamides and their Difluoroboranyl Derivatives

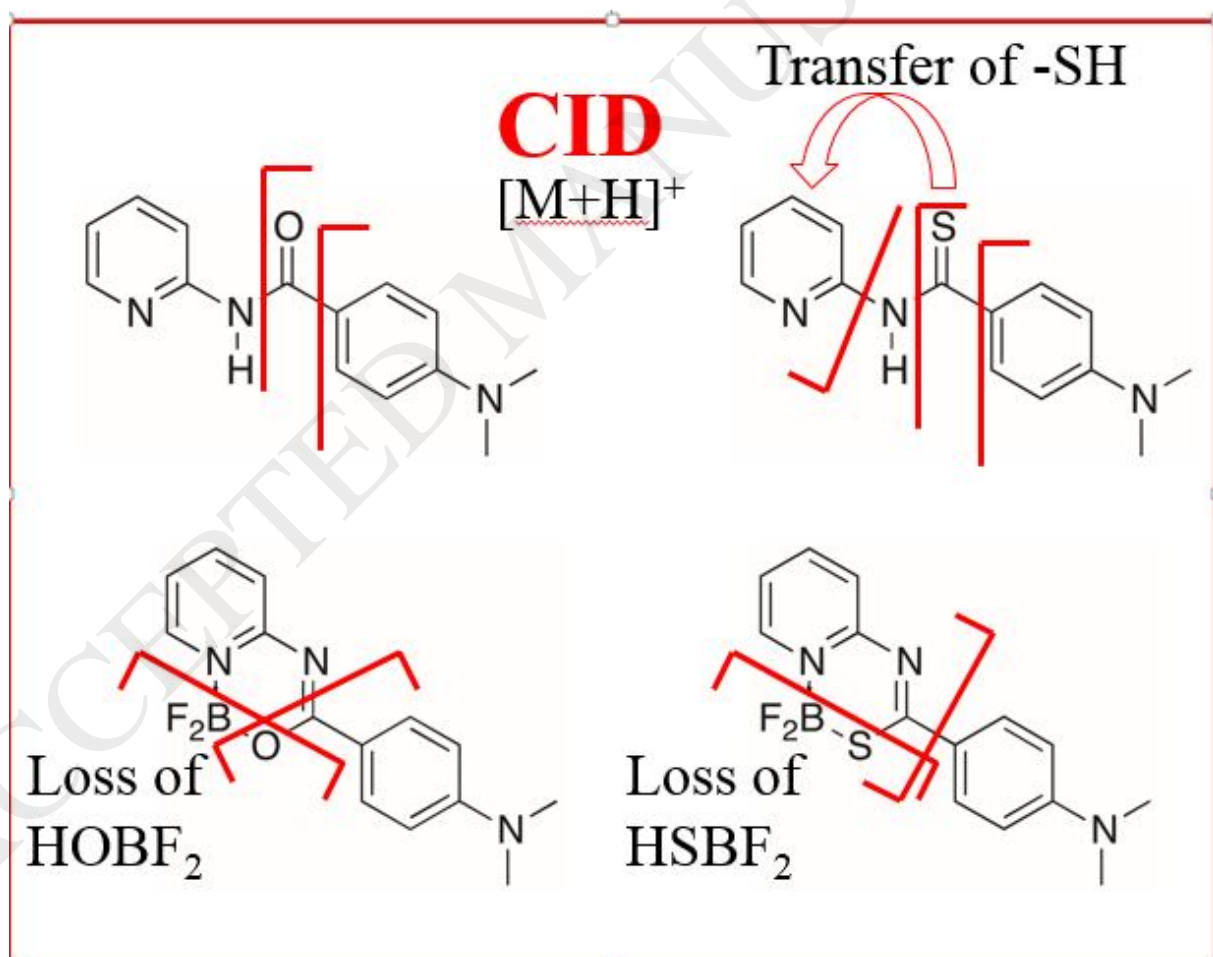
Małgorzata A. Kaczorowska* and Borys Ośmiałowski

Highlights

- The ESI CID MS/MS has been applied for the first time for structural elucidation of N-(Pyridin-2-yl)-Substituted Benzo(thio)amides and N-(Isoquinolin-1-yl)Furan(Thiophene)-2-Carboxamides and their Difluoroboranyl Derivatives.
- The effect of oxygen/sulfur replacement both in amide/thioamide and the furan/thiophene moiety on the CID fragmentation pattern has been investigated.
- The influence of the presence/absence of the -BF₂ group on collision induced dissociation behavior has been studied.

Faculty of Chemical Technology and Engineering, UTP University of Science and Technology, Seminaryjna 3, PL-85-326 Bydgoszcz, Poland

Graphical abstract



Abstract:

The effect of the properties of sulphur and oxygen atoms and of the presence/absence of the -BF₂ group on the collision induced dissociation (CID) behaviour of singly charged ions

Download English Version:

<https://daneshyari.com/en/article/7602924>

Download Persian Version:

<https://daneshyari.com/article/7602924>

[Daneshyari.com](https://daneshyari.com)