

FLORIDA STATE UNIVERSITY  
COLLEGE OF ARTS AND SCIENCES

FOURIER-TRANSFORM ION CYCLOTRON RESONANCE MASS SPECTROMETRY  
(FT-ICR MS) FOR CHARACTERIZATION OF OXYGENATED FOSSIL FUELS IN THE  
ENVIRONMENT

By

SYDNEY FAYE NILES

A Dissertation submitted to the  
Department of Chemistry and Biochemistry  
in partial fulfillment of the  
requirements for the degree of  
Doctor of Philosophy

2020

Sydney Faye Niles defended this dissertation on November 10, 2020.

The members of the supervisory committee were:

Alan G. Marshall  
Professor Directing Dissertation

Robert G. M. Spencer  
University Representative

Michael G. Roper  
Committee Member

Christian Bleiholder  
Committee Member

The Graduate School has verified and approved the above-named committee members and certifies that the dissertation has been approved in accordance with university requirements.