

Chemical Characterization of Lipophilic Constituents in the Skin of Migratory Adult Sea Lamprey from the Great Lakes Region

Amila A. Dissanayake,¹ Muraleedharan G. Nair,^{1,3*}

Bioactive Natural Products and Phytochemicals Laboratory, Department of Horticulture,
Michigan State University, East Lansing, Michigan 48824, USA

Supplemental data

For compound **1**

Figure A. ¹H NMR spectrum of **1** in CDCl₃

Figure B. ¹³C NMR spectrum of **1** in CDCl₃

Figure C. DEPT spectrum of **1** in CDCl₃

Figure D. HMBC spectrum of **1** in CDCl₃

Figure E. ESIMS (positive) spectrum **1**

Figure F. GCMS of the hexadecanoic acid, methyl ester

For compound **2**

Figure G. ¹H NMR spectrum **2** in CDCl₃

Figure H. ¹³C NMR spectrum **2** in CDCl₃

Figure I. DEPT spectrum **2** in CDCl₃

Figure J. HMBC spectrum **2** in CDCl₃

Figure K. ESIMS (positive) spectrum **2**

Figure L. GCMS of the 9-octadecenoic acid (Z)-, methyl ester

For compound **3**

Figure M. ¹H NMR spectrum **3** in CDCl₃

Figure N. ¹³C NMR spectrum **3** in CDCl₃

Figure O. DEPT spectrum **3** in CDCl₃

Figure P. HMBC spectrum **3** in CDCl₃

Figure Q. ESIMS (positive) spectrum **3**

Figure R. GCMS of the arachidonic acid, methyl ester

For compound **4**

Figure S. ¹H NMR spectrum **4** in CDCl₃

Figure T. ¹³C NMR spectrum **4** in CDCl₃

Figure U. DEPT spectrum **4** in CDCl₃

Figure V. HMBC spectrum **4** in CDCl₃

Figure W. ESIMS (positive) spectrum **4**

Figure X. GCMS of the eicosapentaenoic acid, methyl ester

Figure A

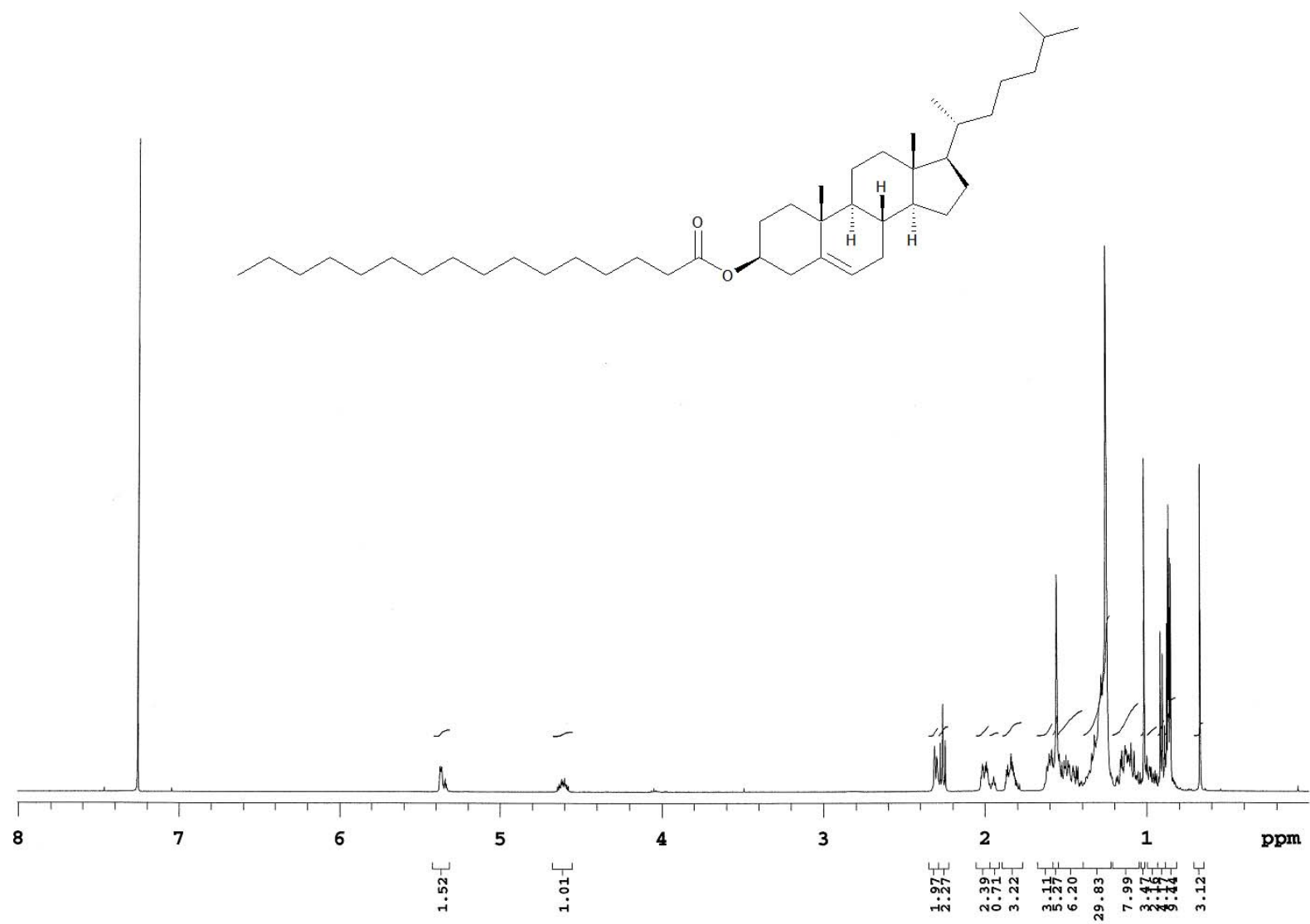


Figure B

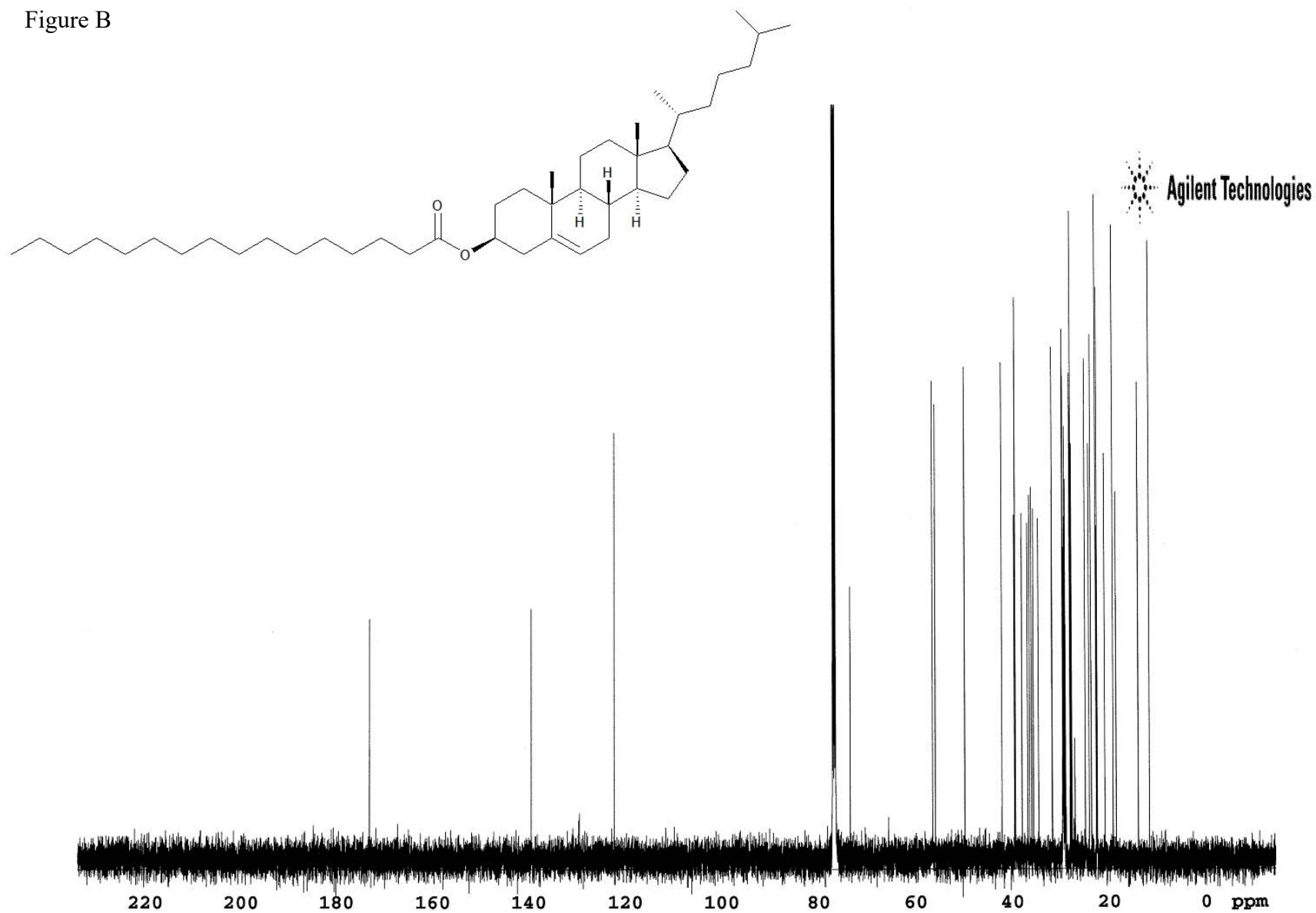


Figure C

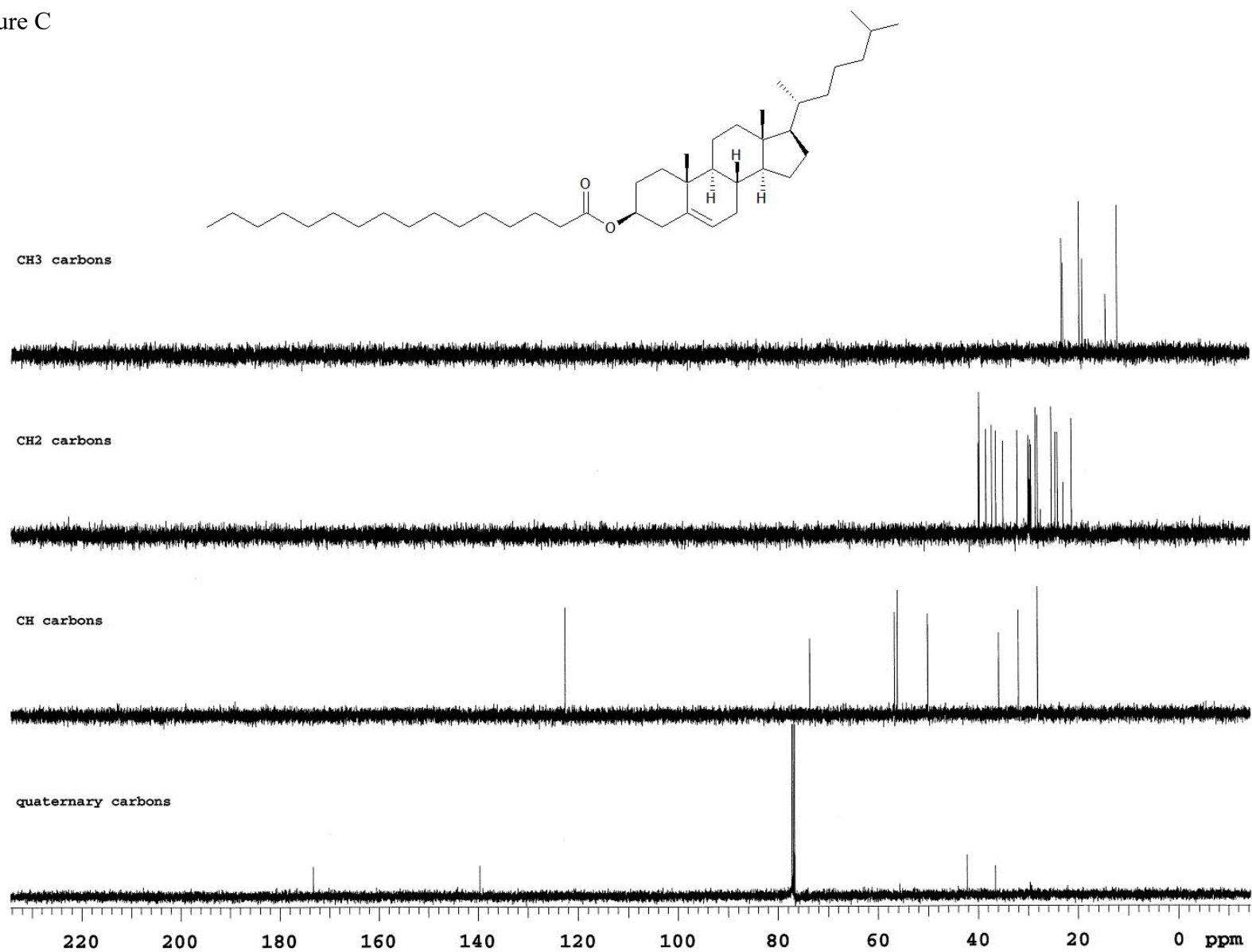


Figure D

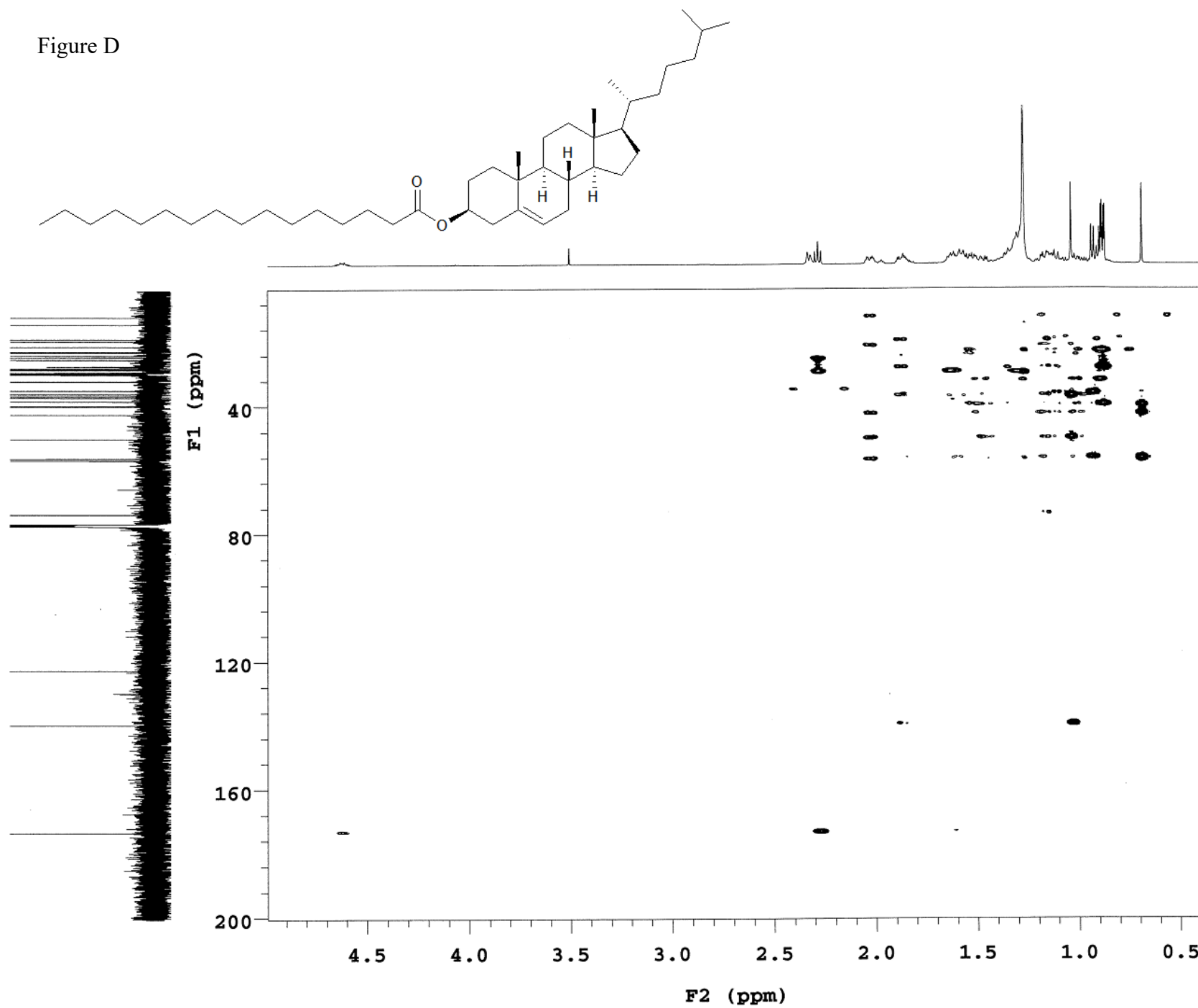


Figure E

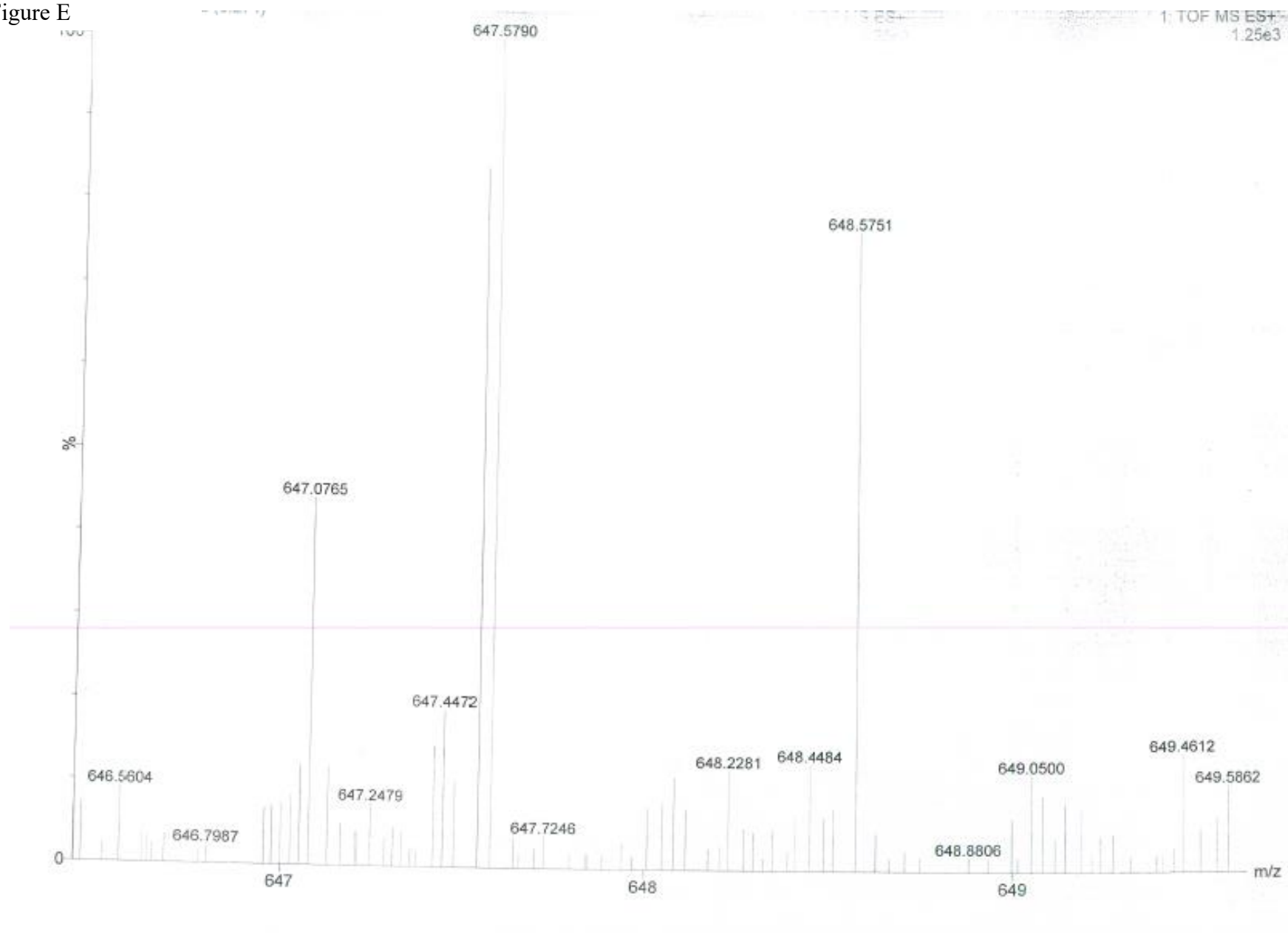


Figure F

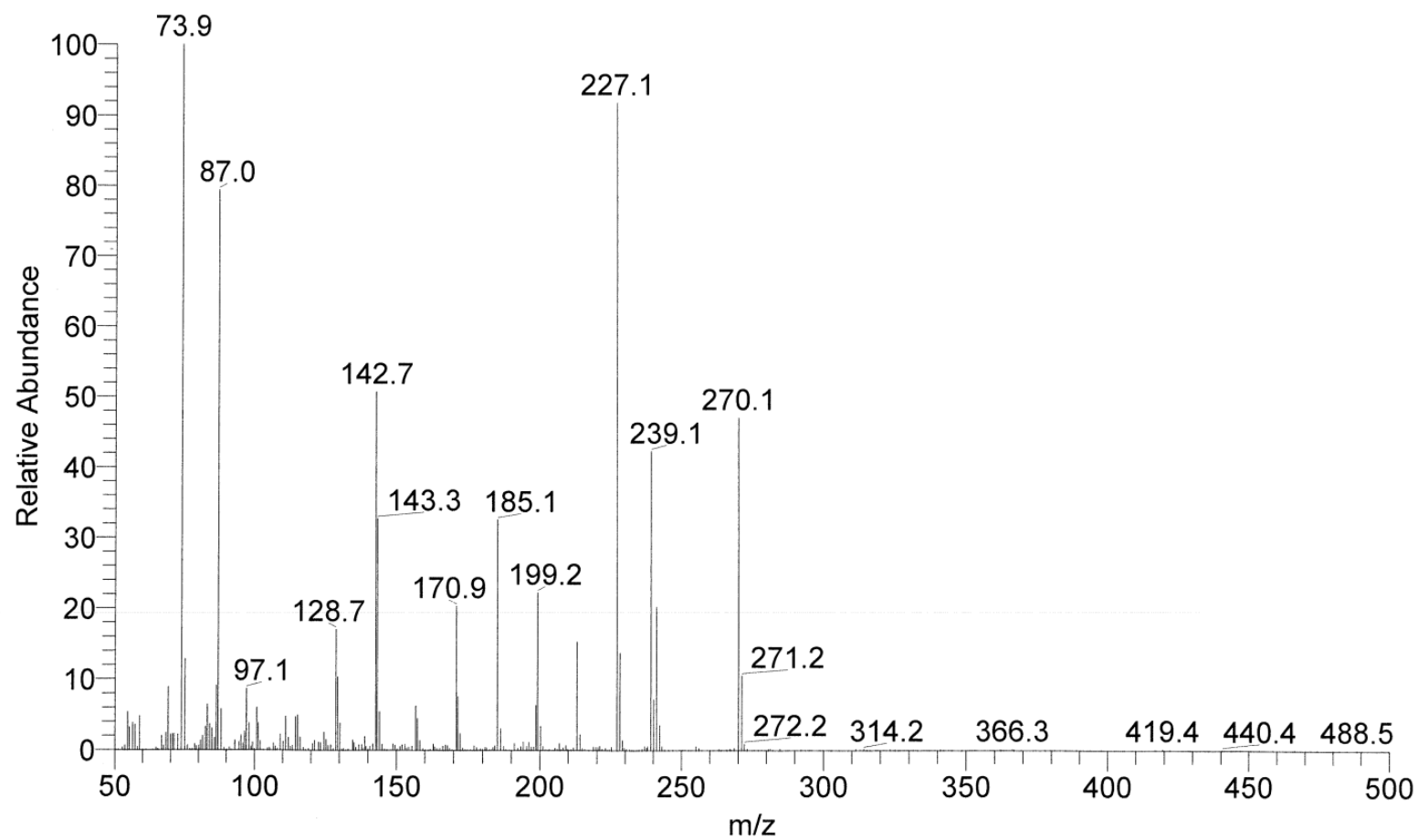


Figure G

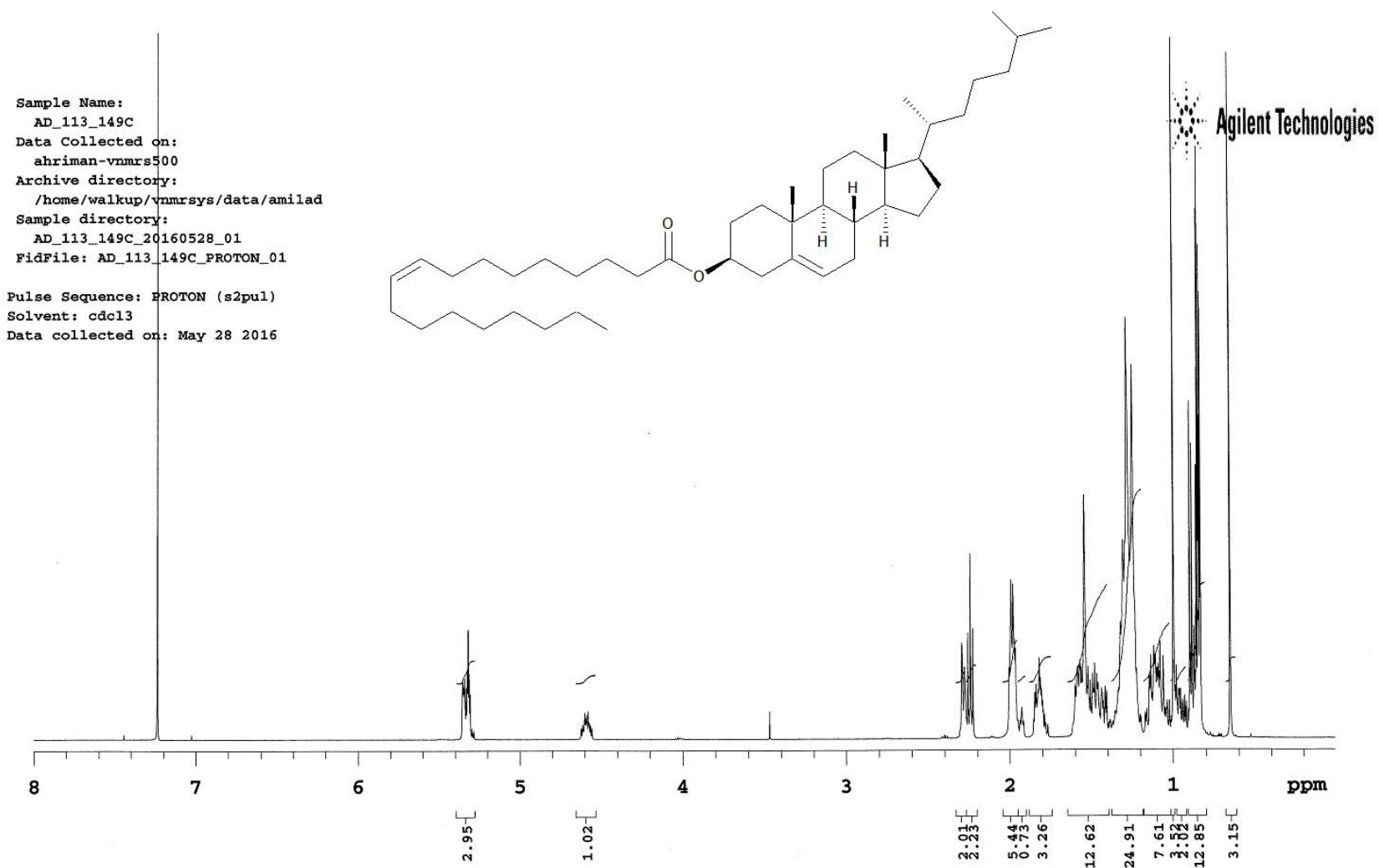


Figure H

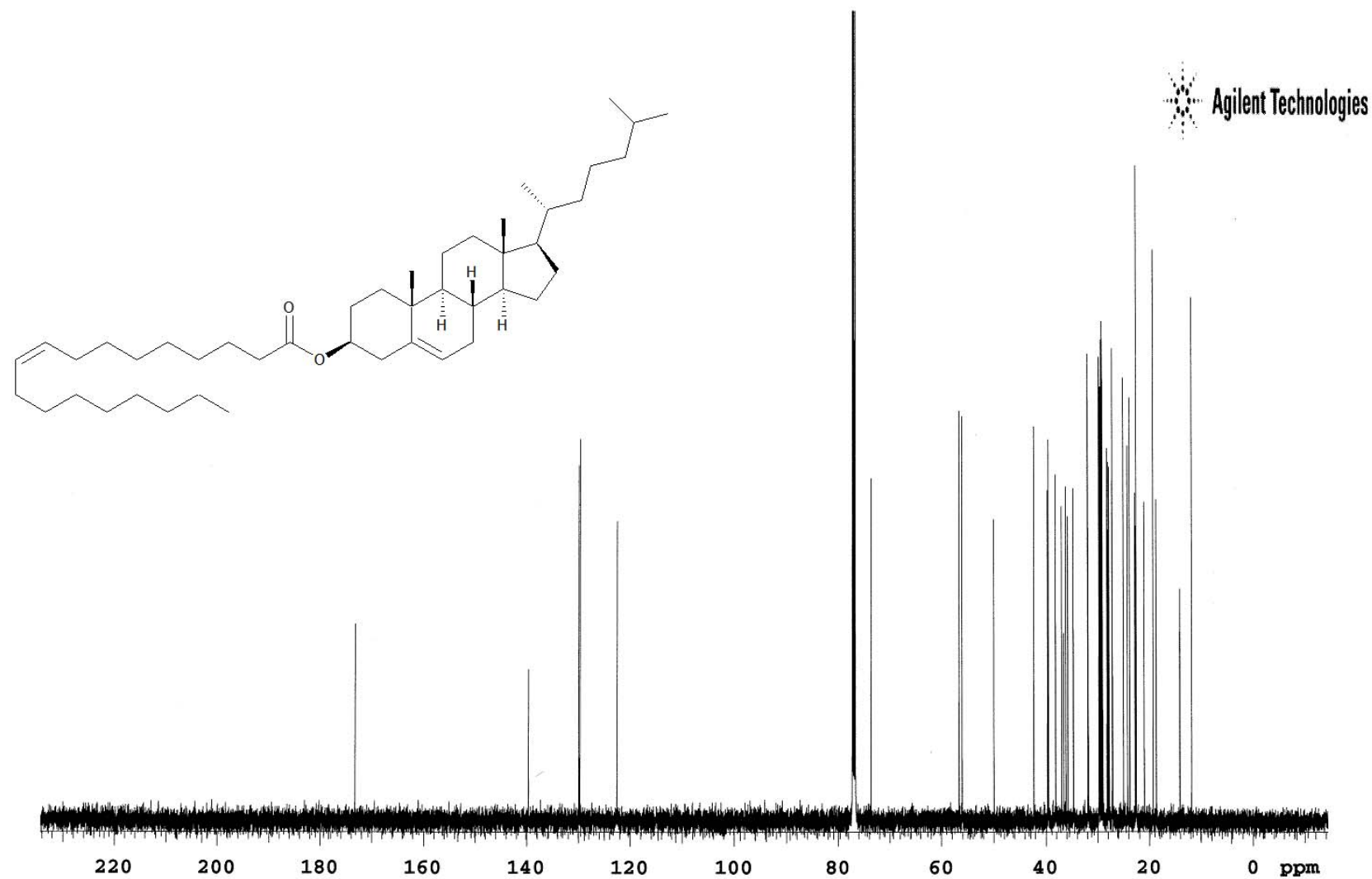


Figure I

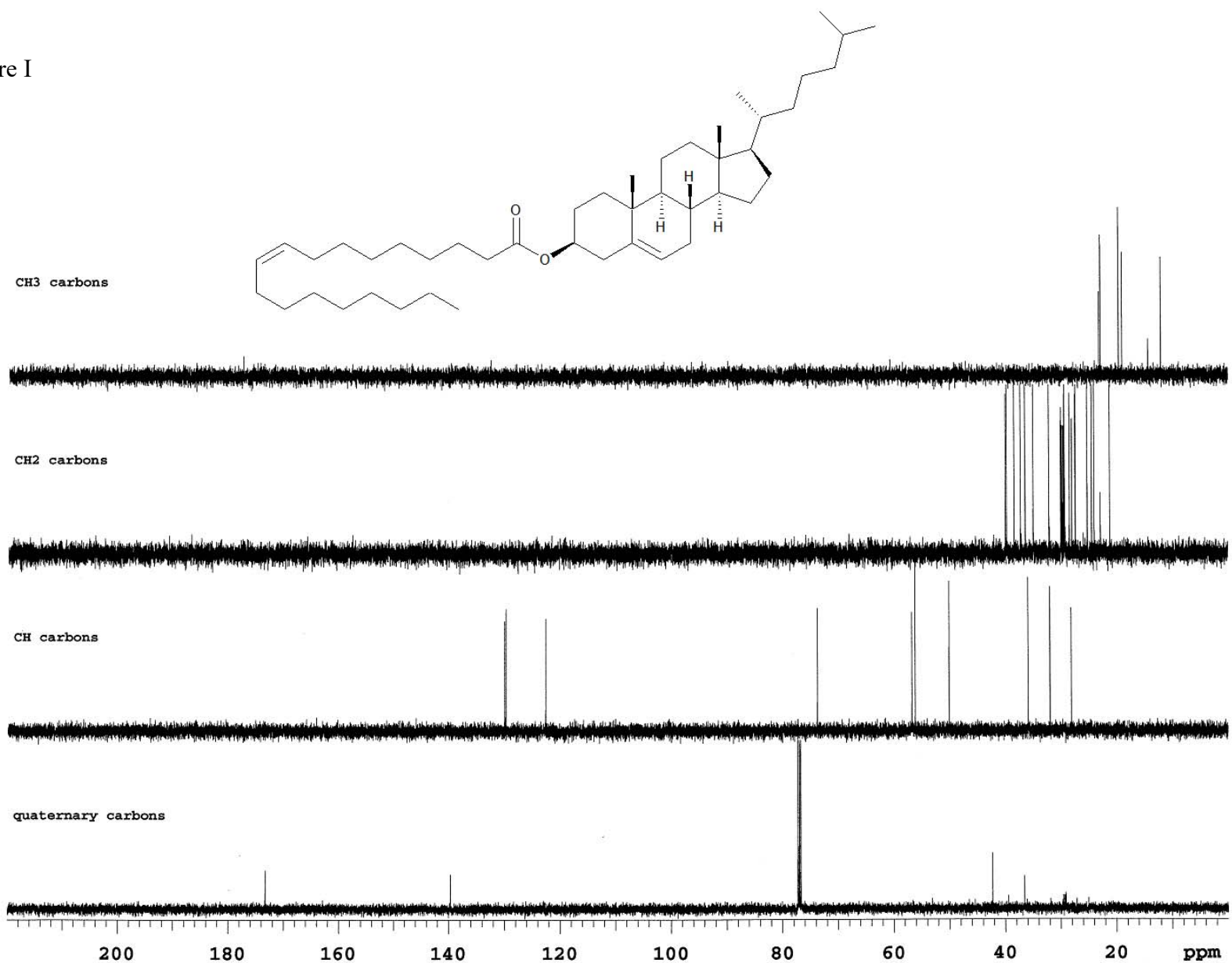


Figure J

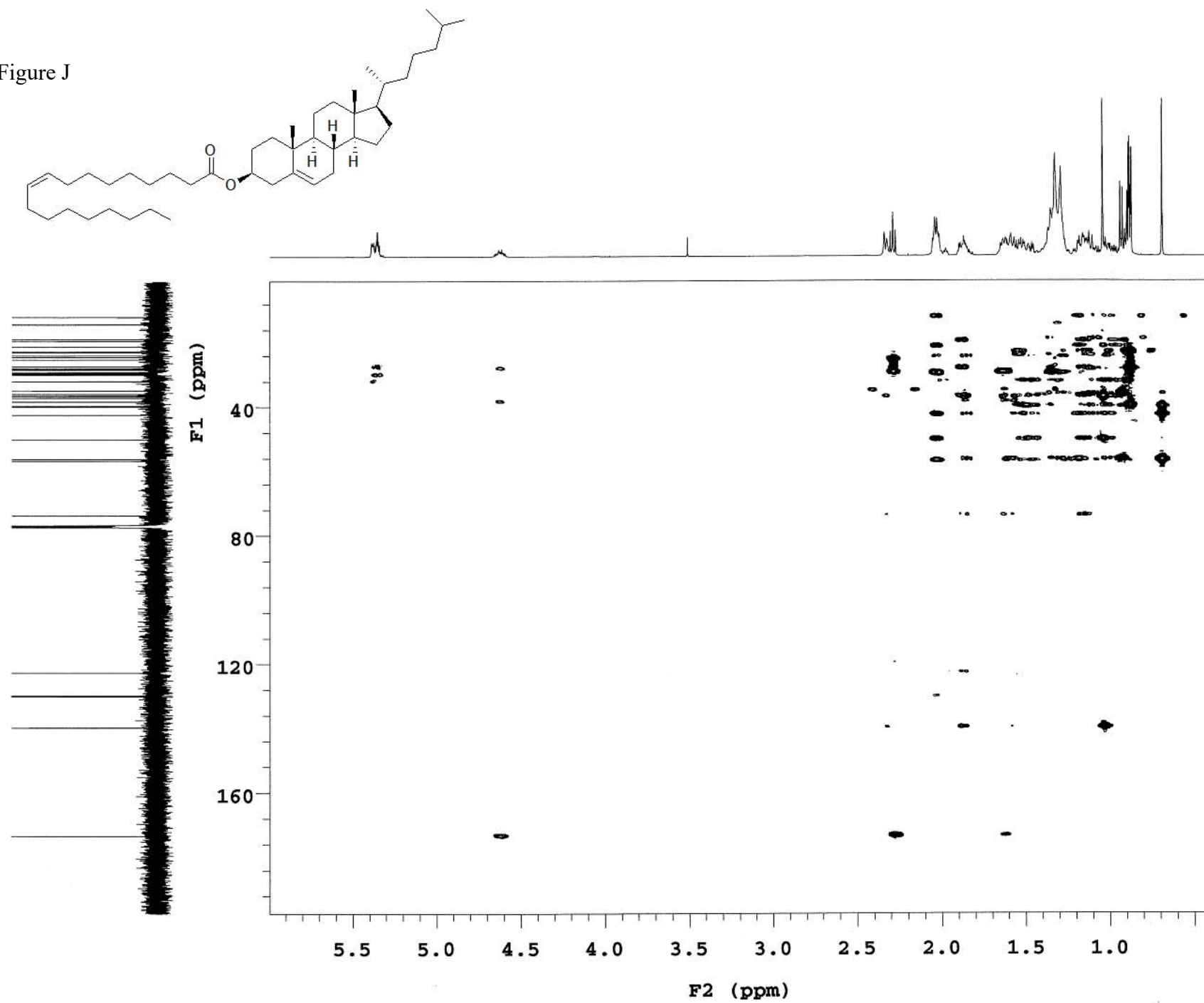


Figure K

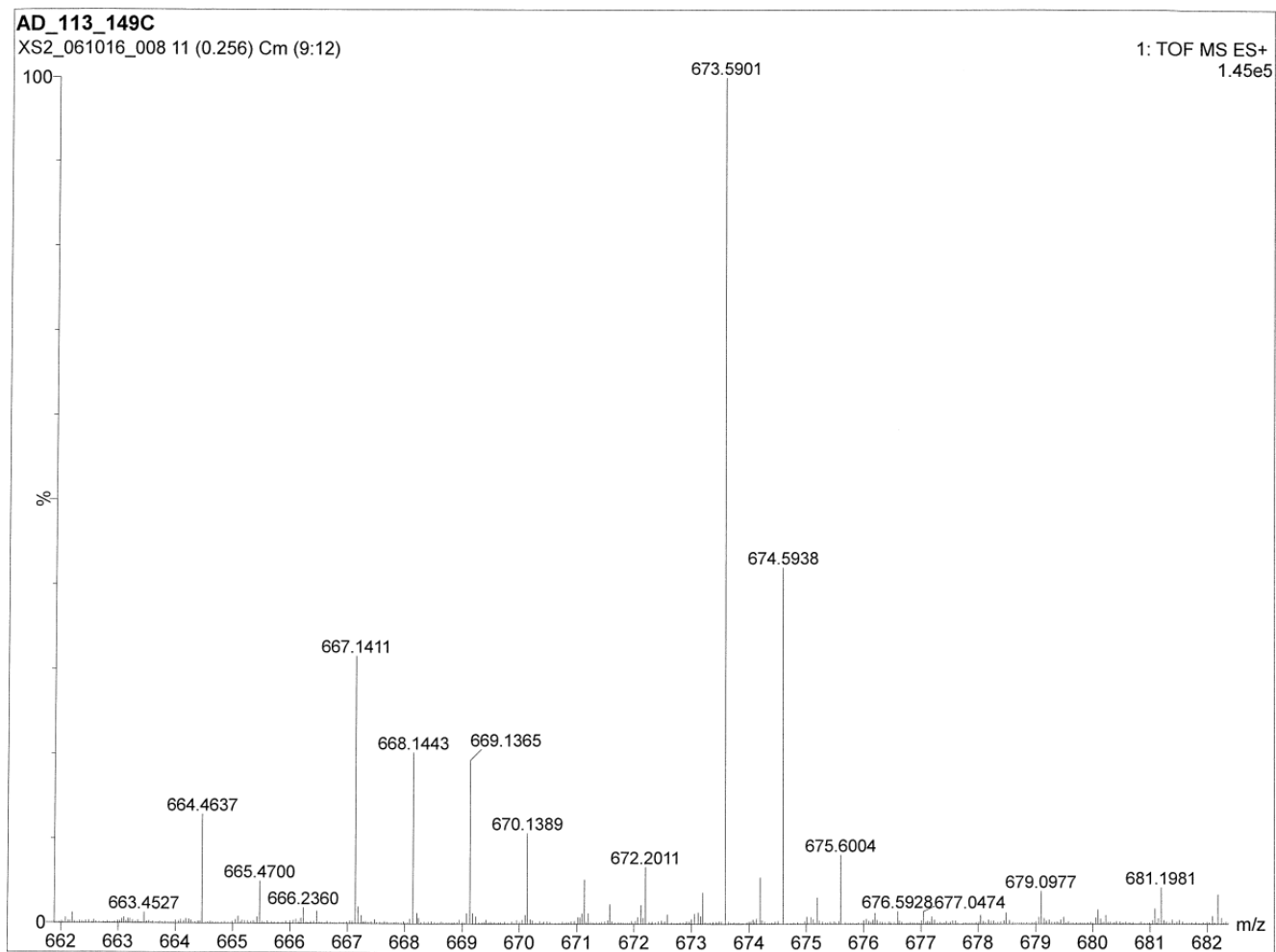


Figure L

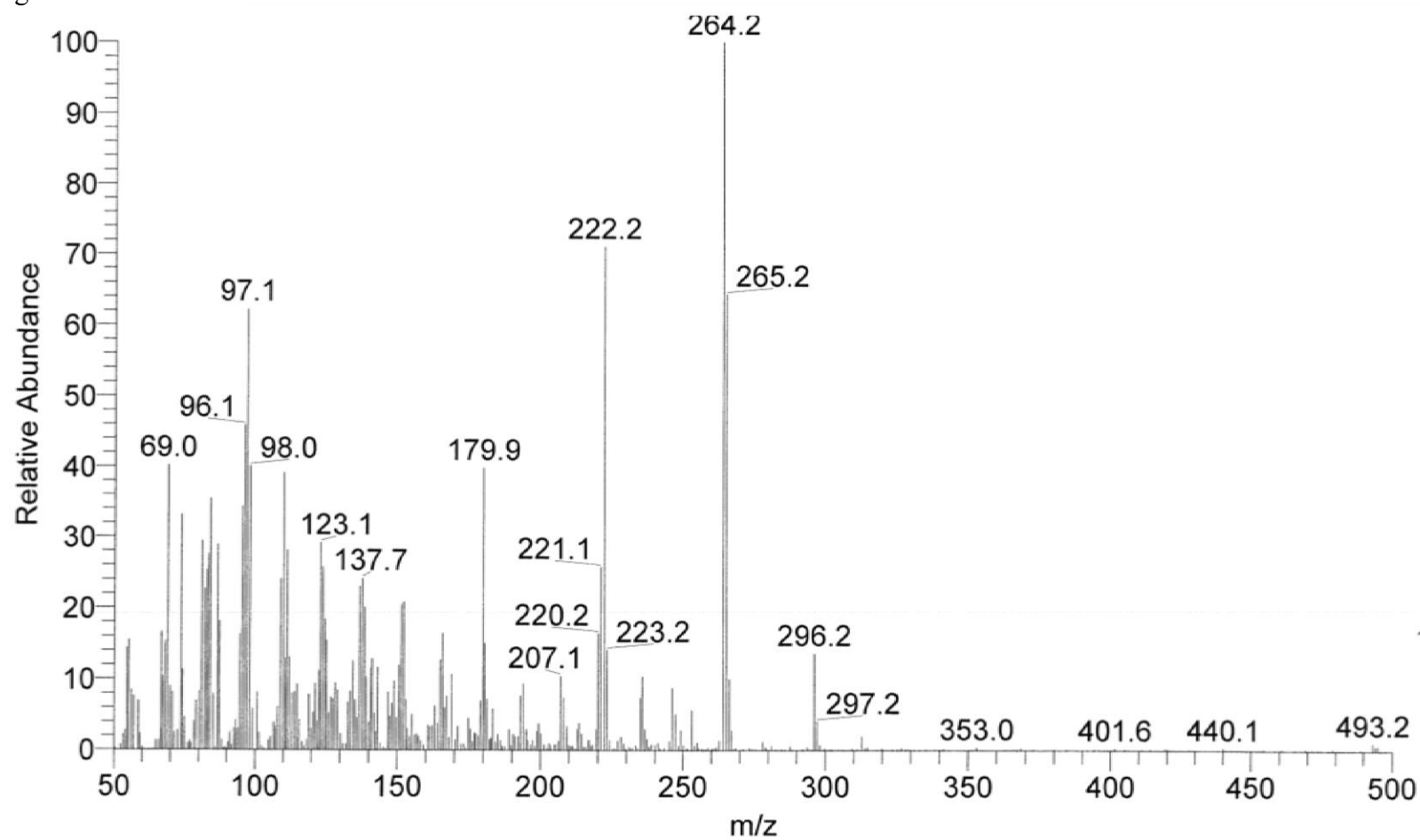
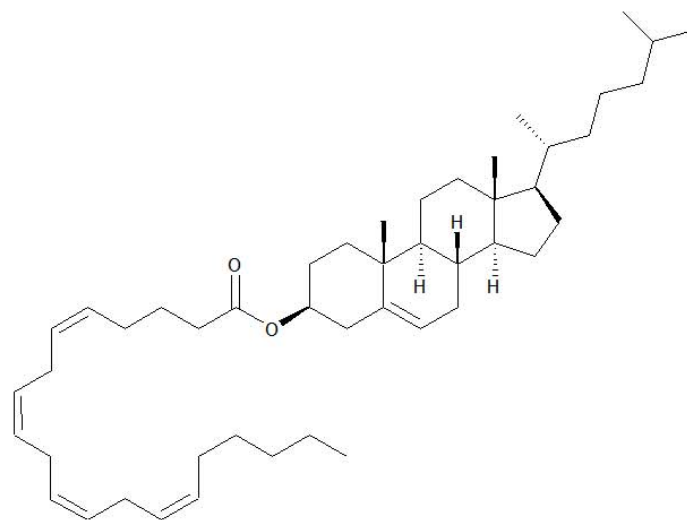


Figure M

Sample Name:
AD_113_149D
Data Collected on:
ormuzd-vnmrs500
Archive directory:
/home/walkup/vnmrsys/data/amilad
Sample directory:
AD_113_149D_20160604_02
FidFile: AD_113_149D_PROTON_01

Pulse Sequence: PROTON (s2pul)
Solvent: cdcl3
Data collected on: Jun 4 2016



Agilent Technologies

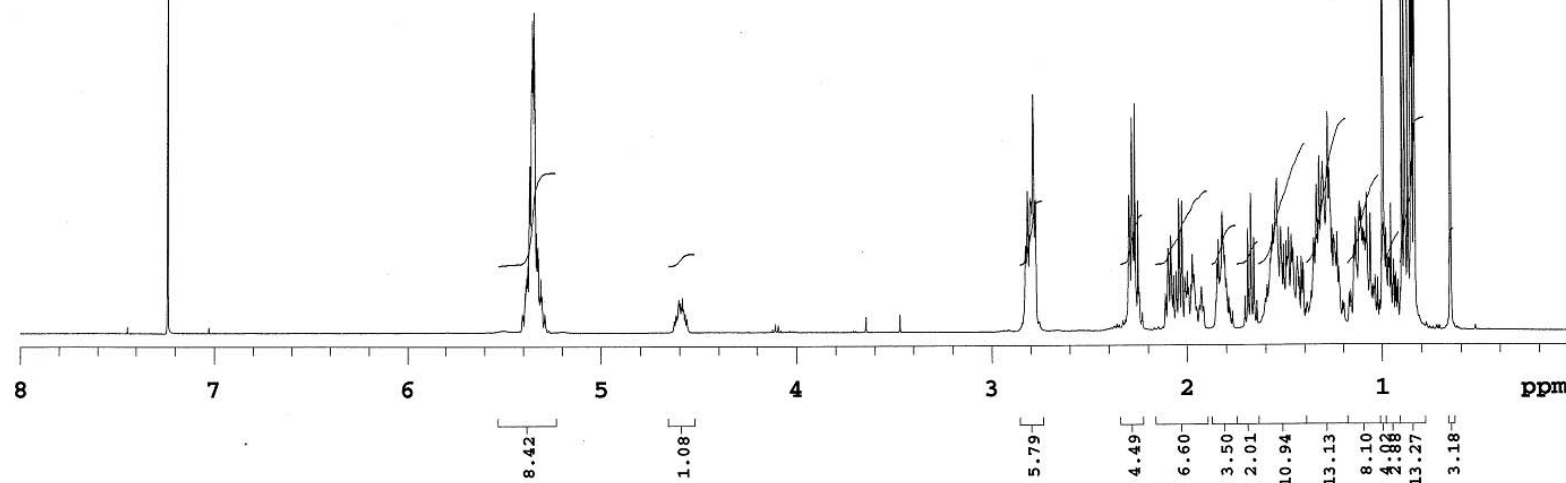
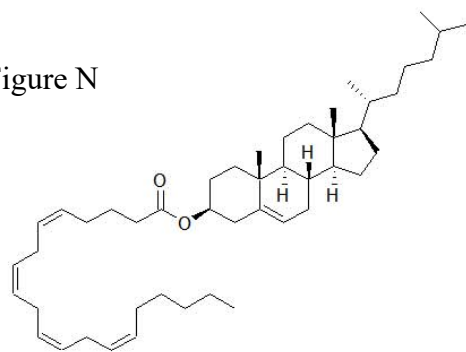


Figure N



 Agilent Technologies

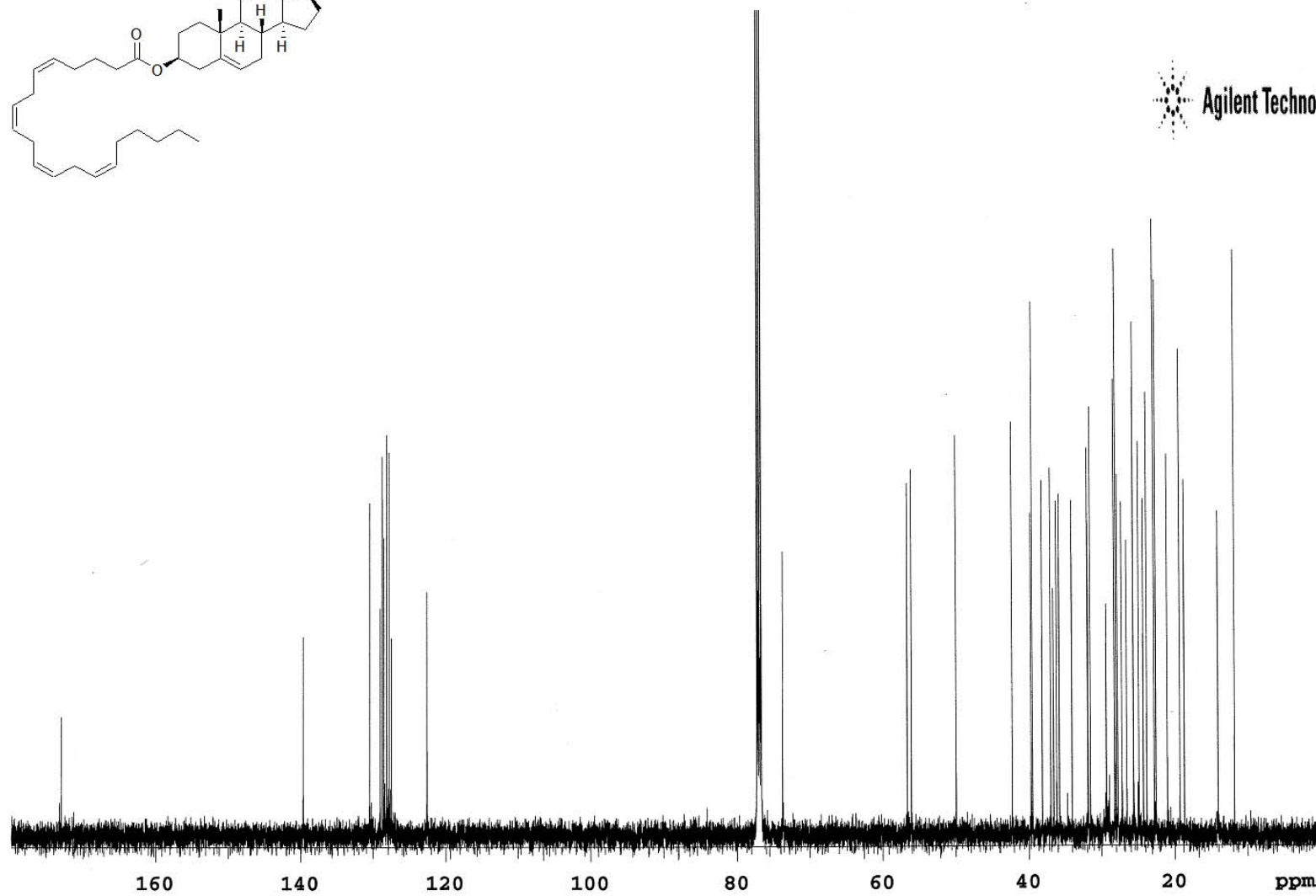


Figure O

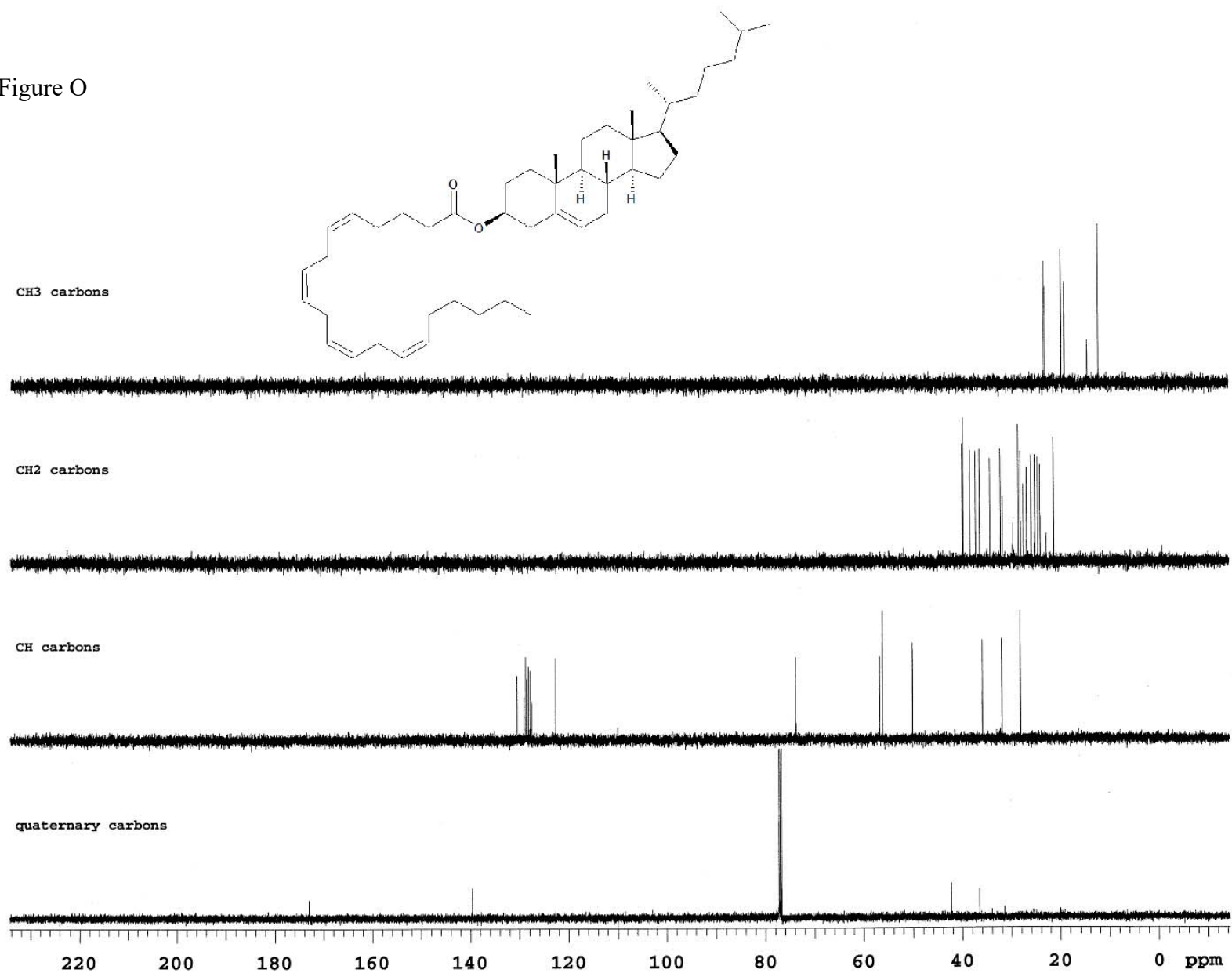


Figure P

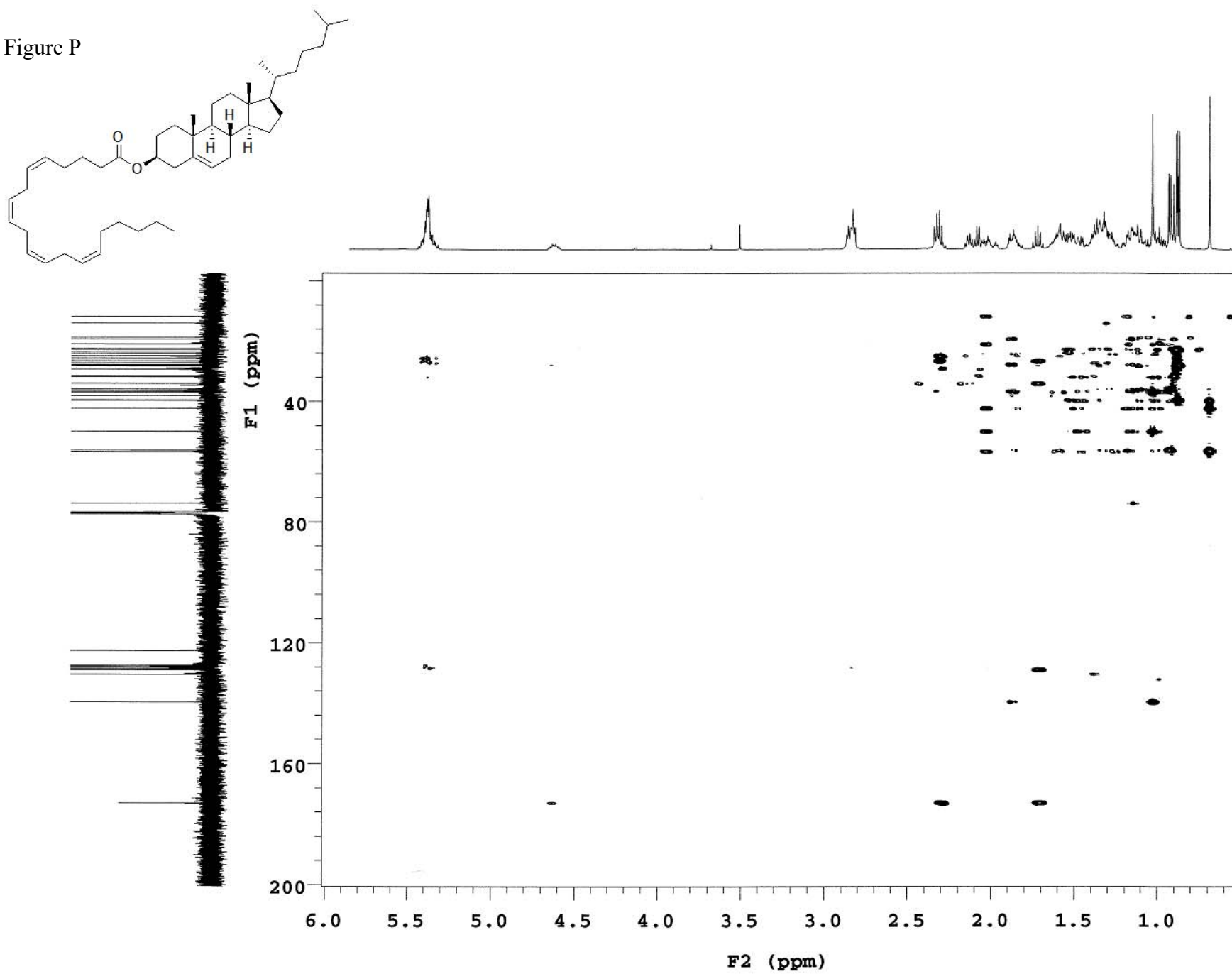


Figure Q

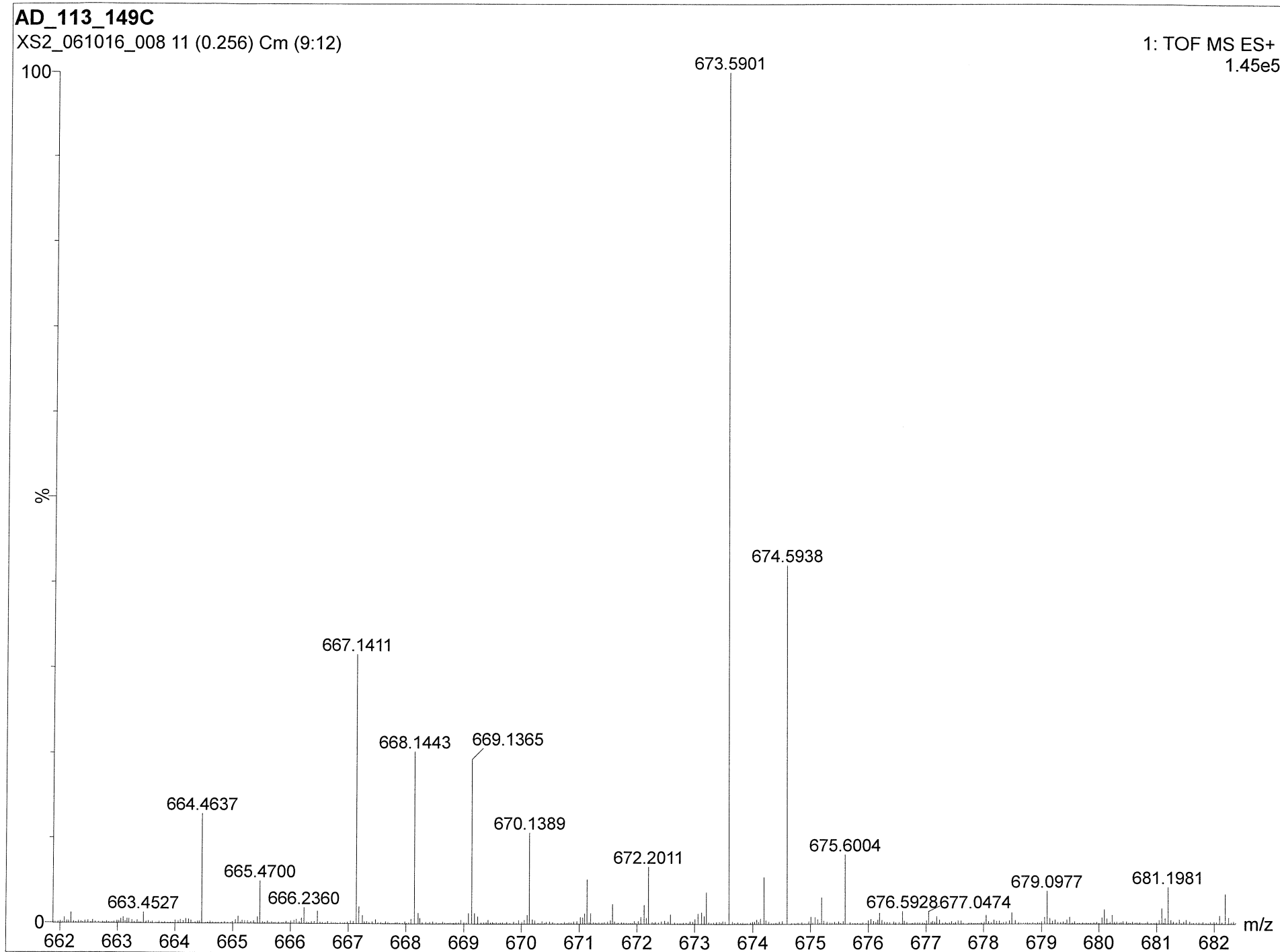


Figure R

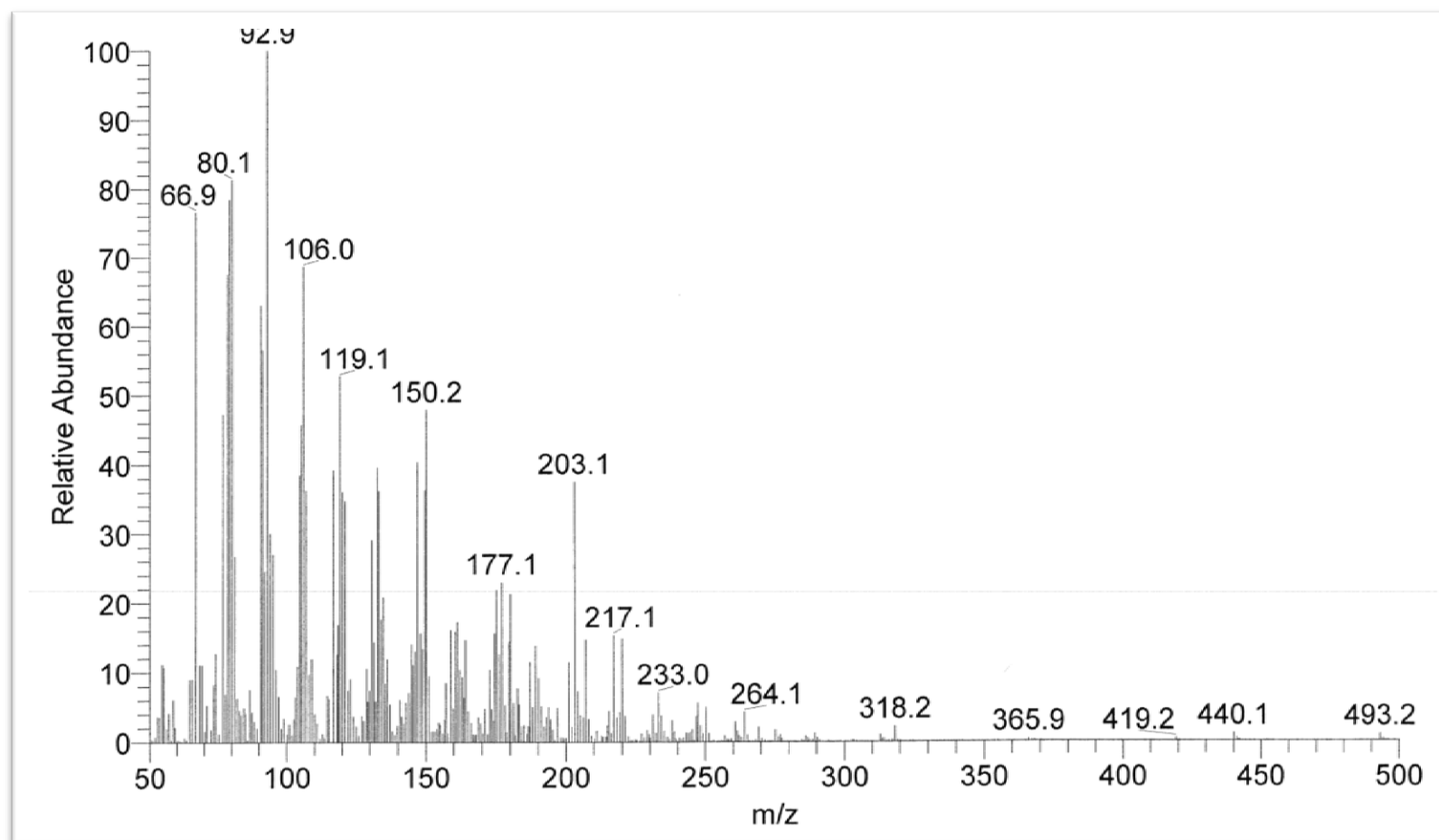


Figure S

Sample Name:
AD_113_149E
Data Collected on:
ahriman-vnmrs500
Archive directory:
/home/walkup/vnmrsys/data/amilad
Sample directory:
AD_113_149E_20160528_01
FidFile: AD_113_149E_PROTON_01

Pulse Sequence: PROTON (s2pul)
Solvent: cdcl3
Data collected on: May 28 2016

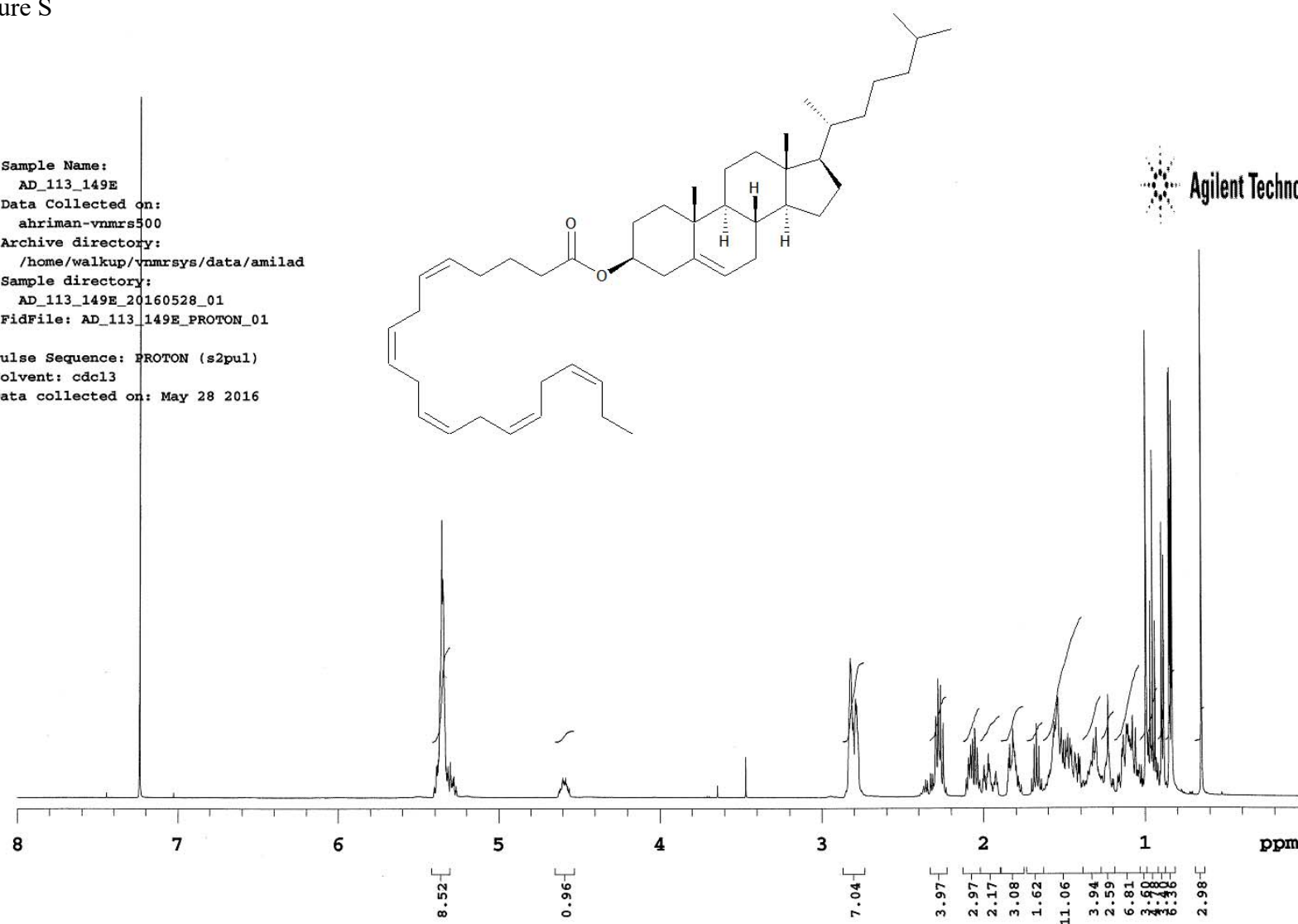


Figure T

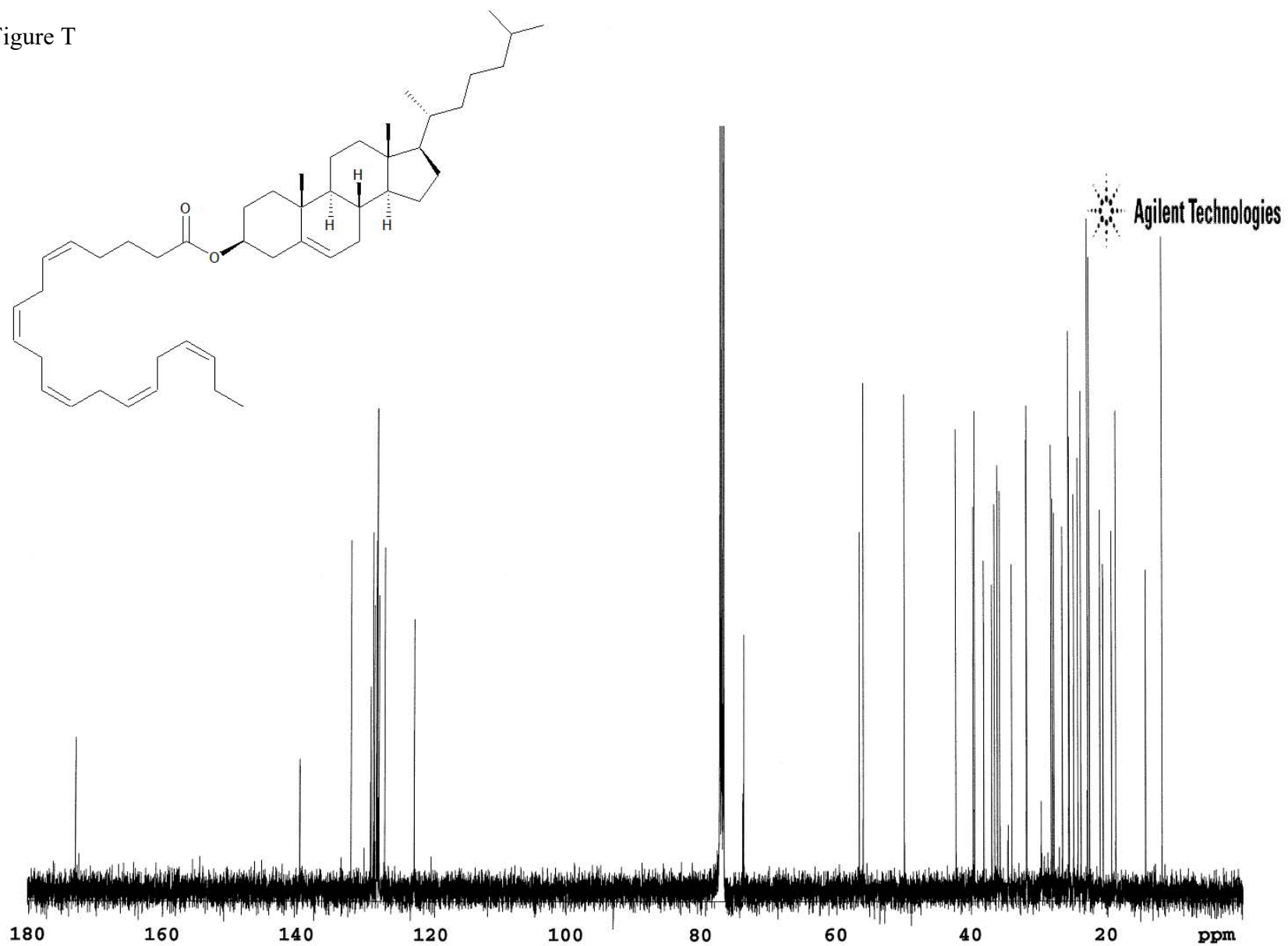


Figure U

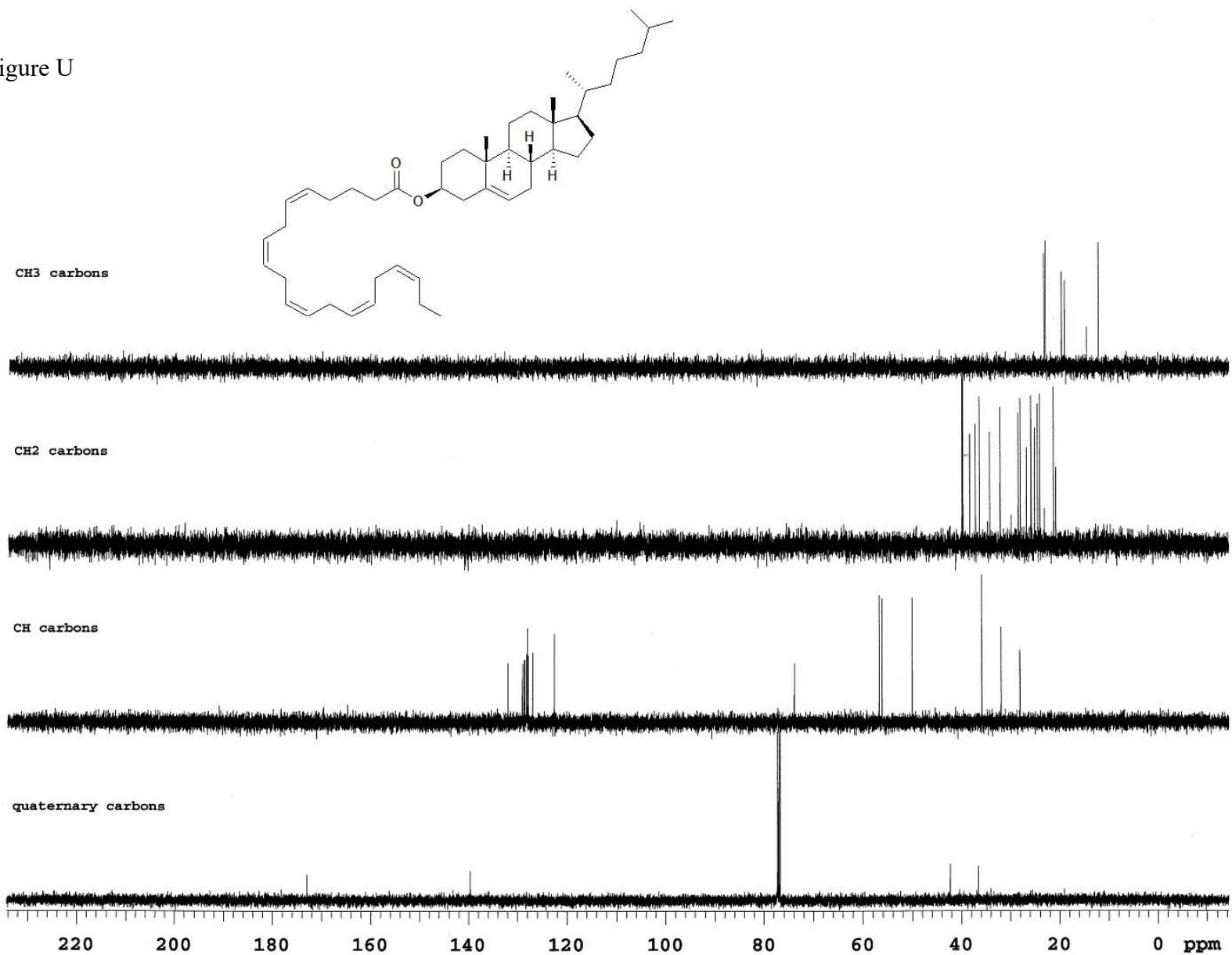


Figure V

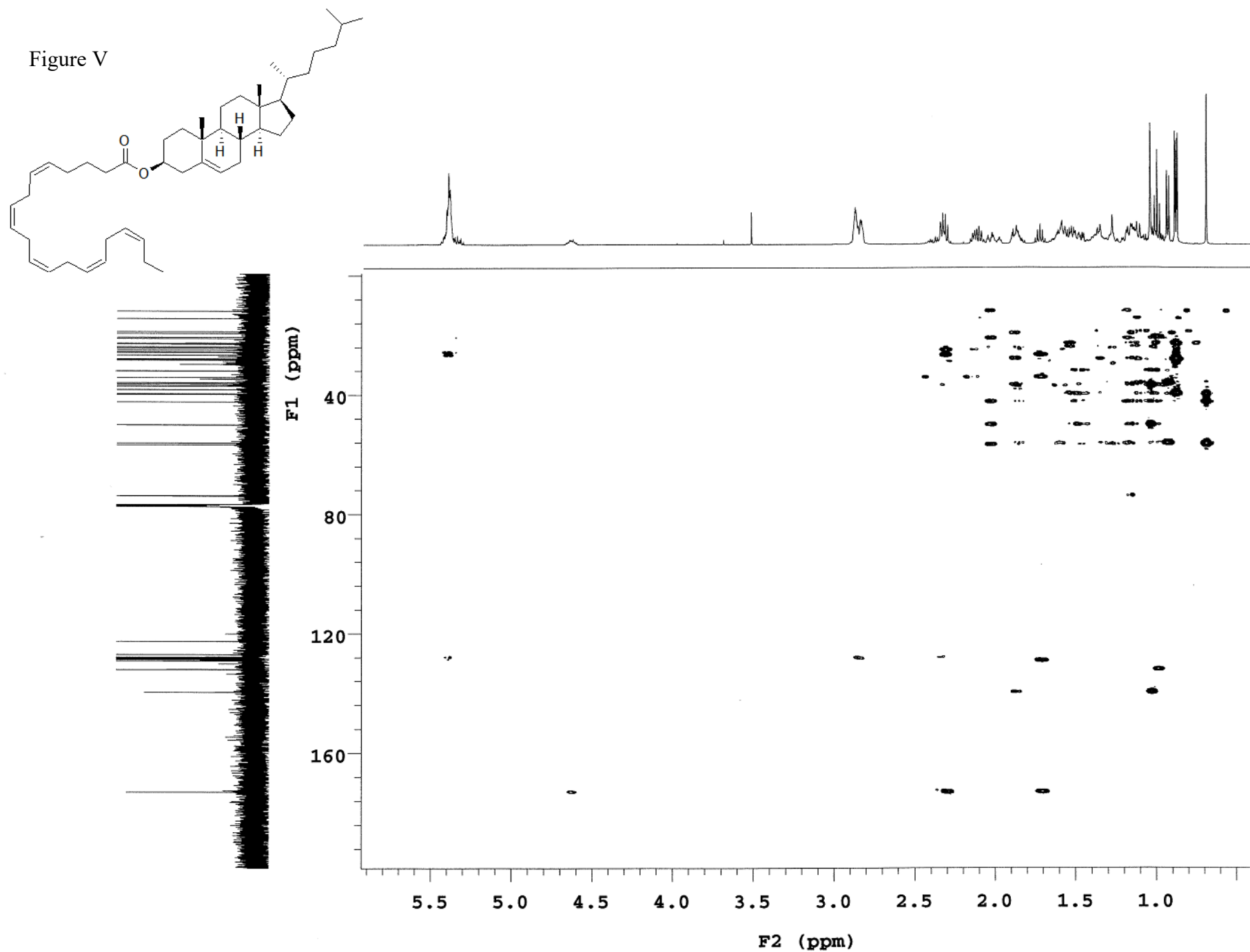


Figure W

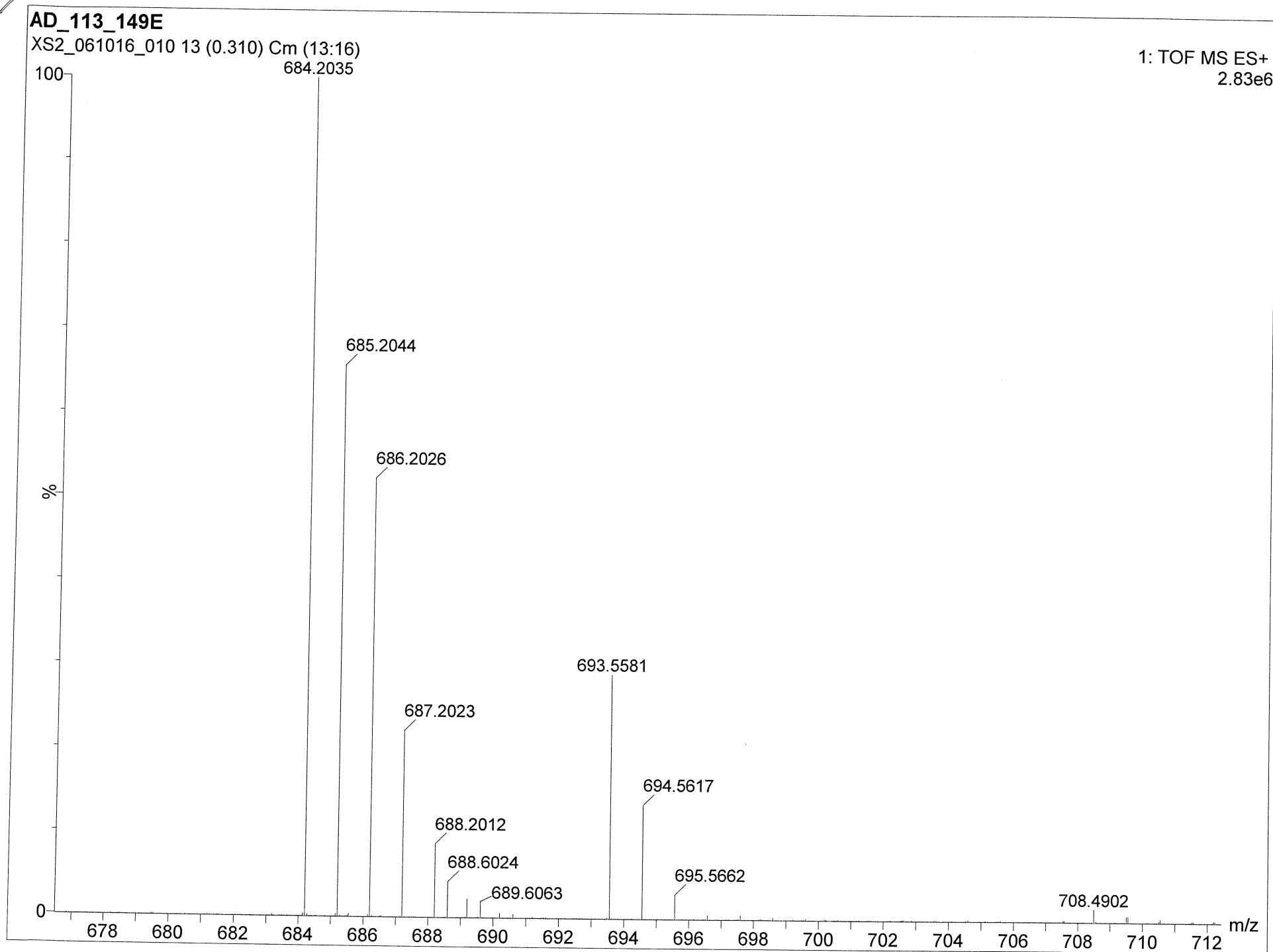


Figure X

