

Supplementary Materials

Synthesis, NMR characterization and antileukemic activity of *N*-nonanoylpiperazinyl- 5 α -androstane-3 α ,17 β -diol A-ring derivatives

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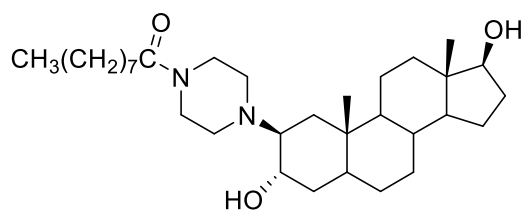
² Department of Molecular Medicine, Faculty of Medicine, Université Laval, Québec (Québec), Canada

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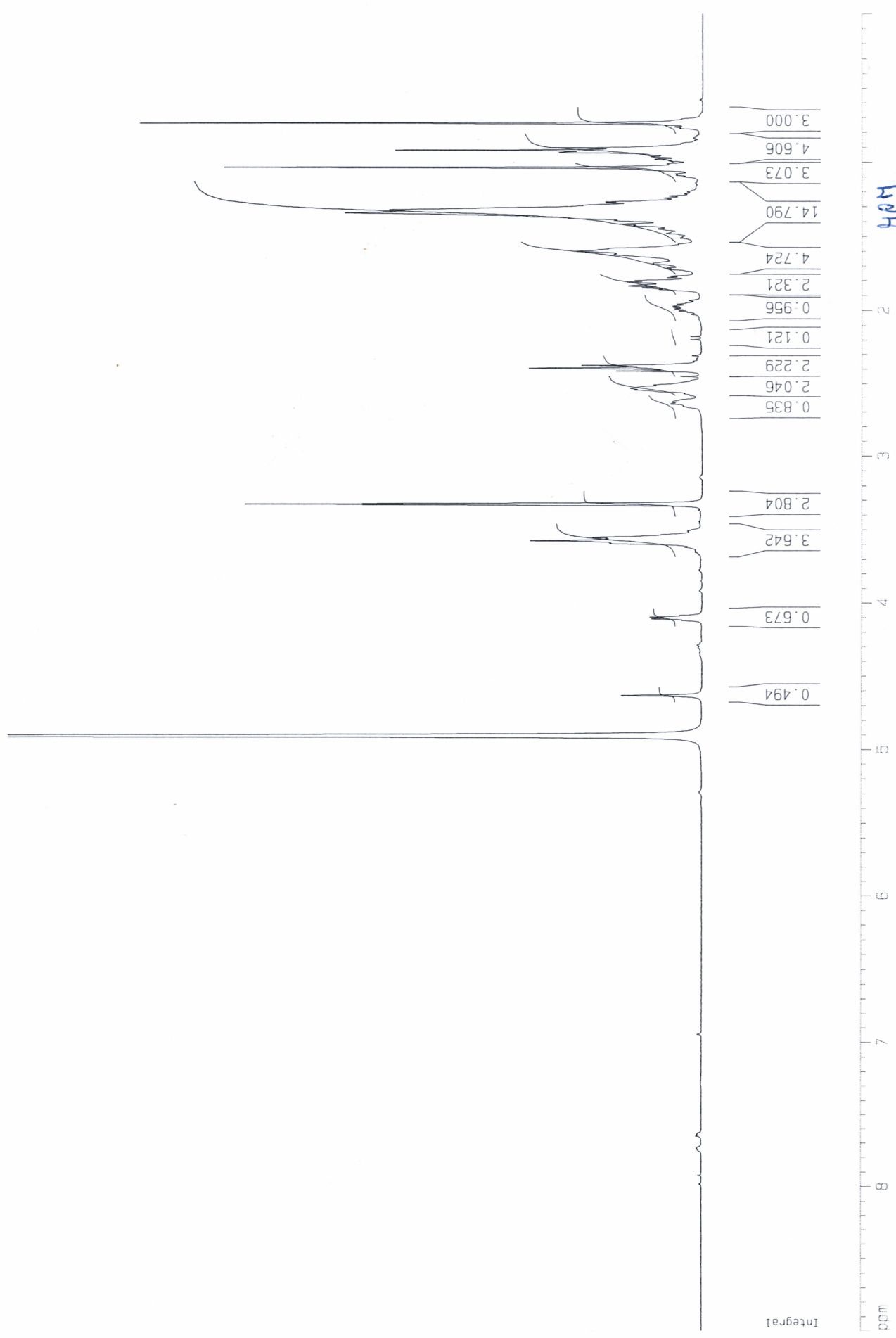
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^1H NMR, ^{13}C NMR (APT), NOESY, COSY, HSQC and HMBC spectra
for compound **1** (IR-542-17-51) in CD_3OD

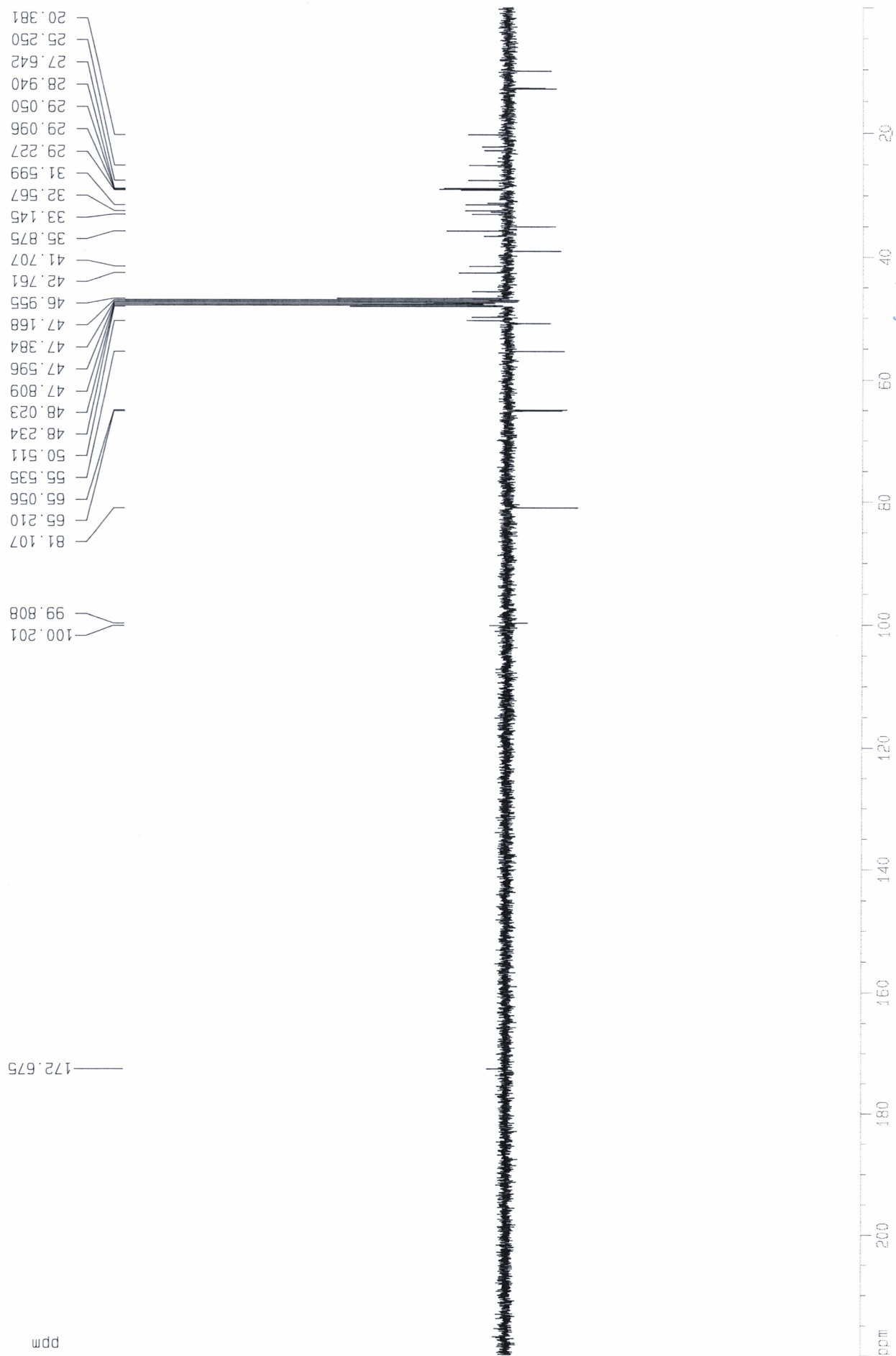


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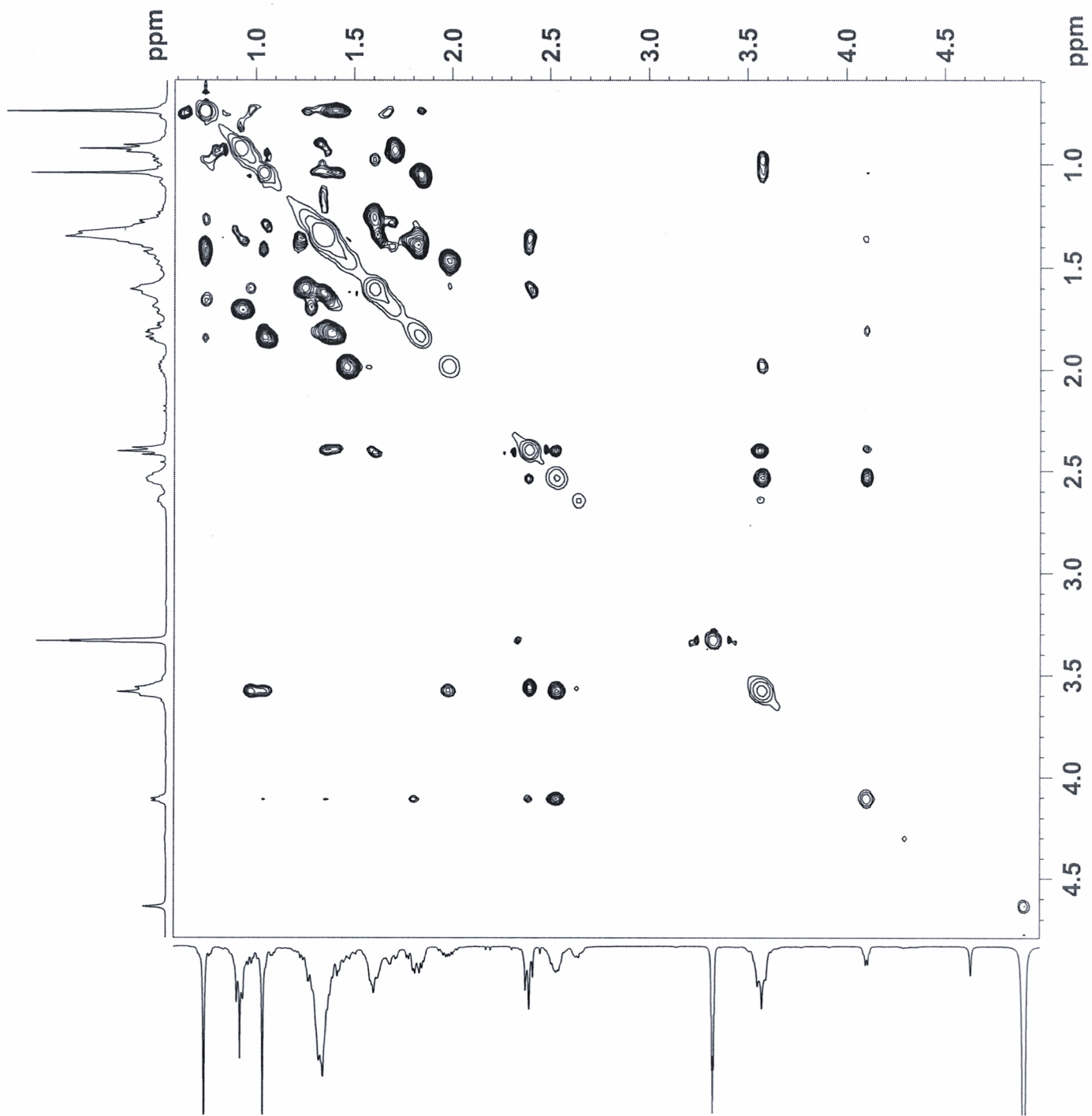
IR-542-17-51

Mg

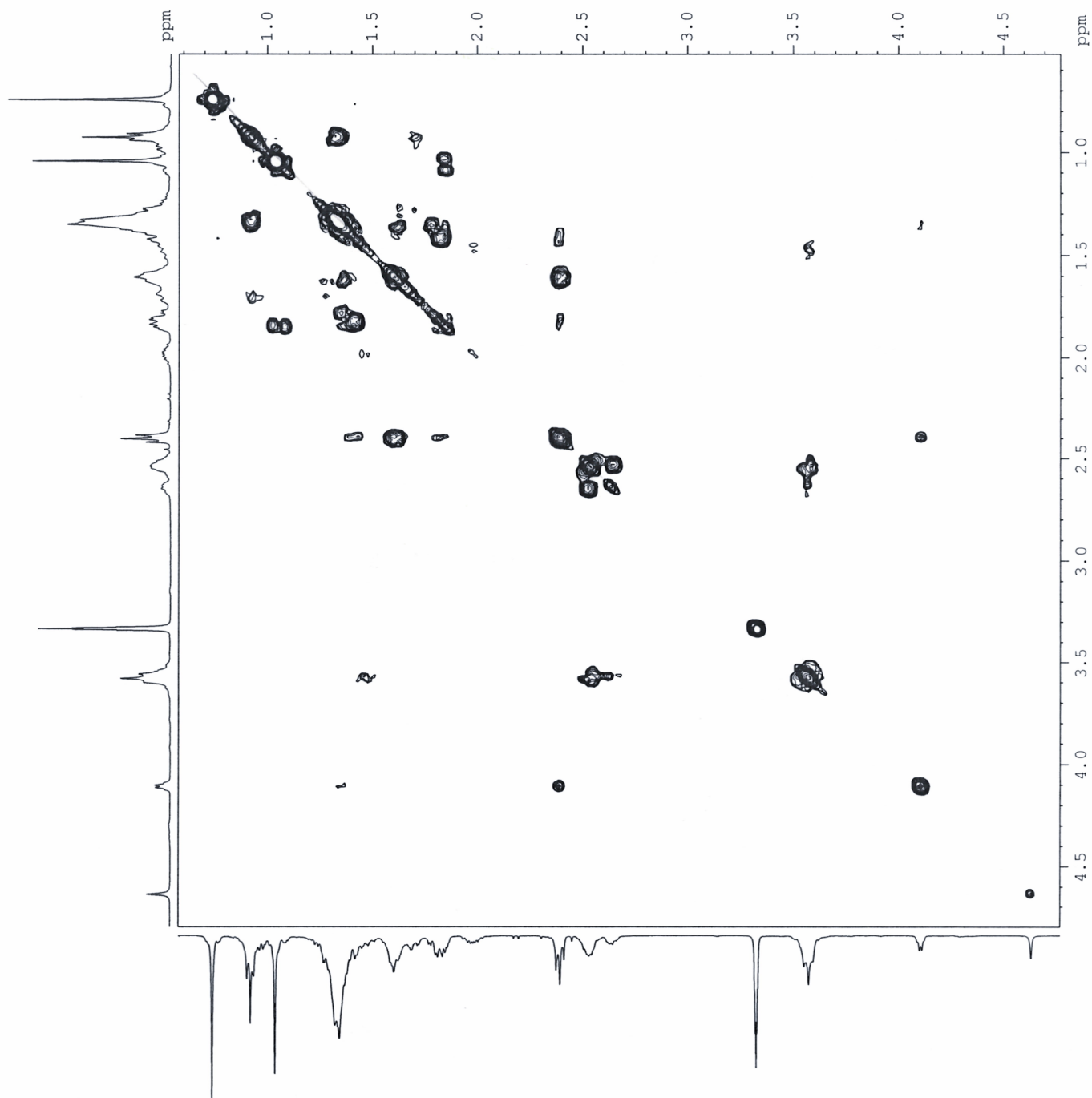


IR-542-17-51
APT

IR-542-17-51
NOESY

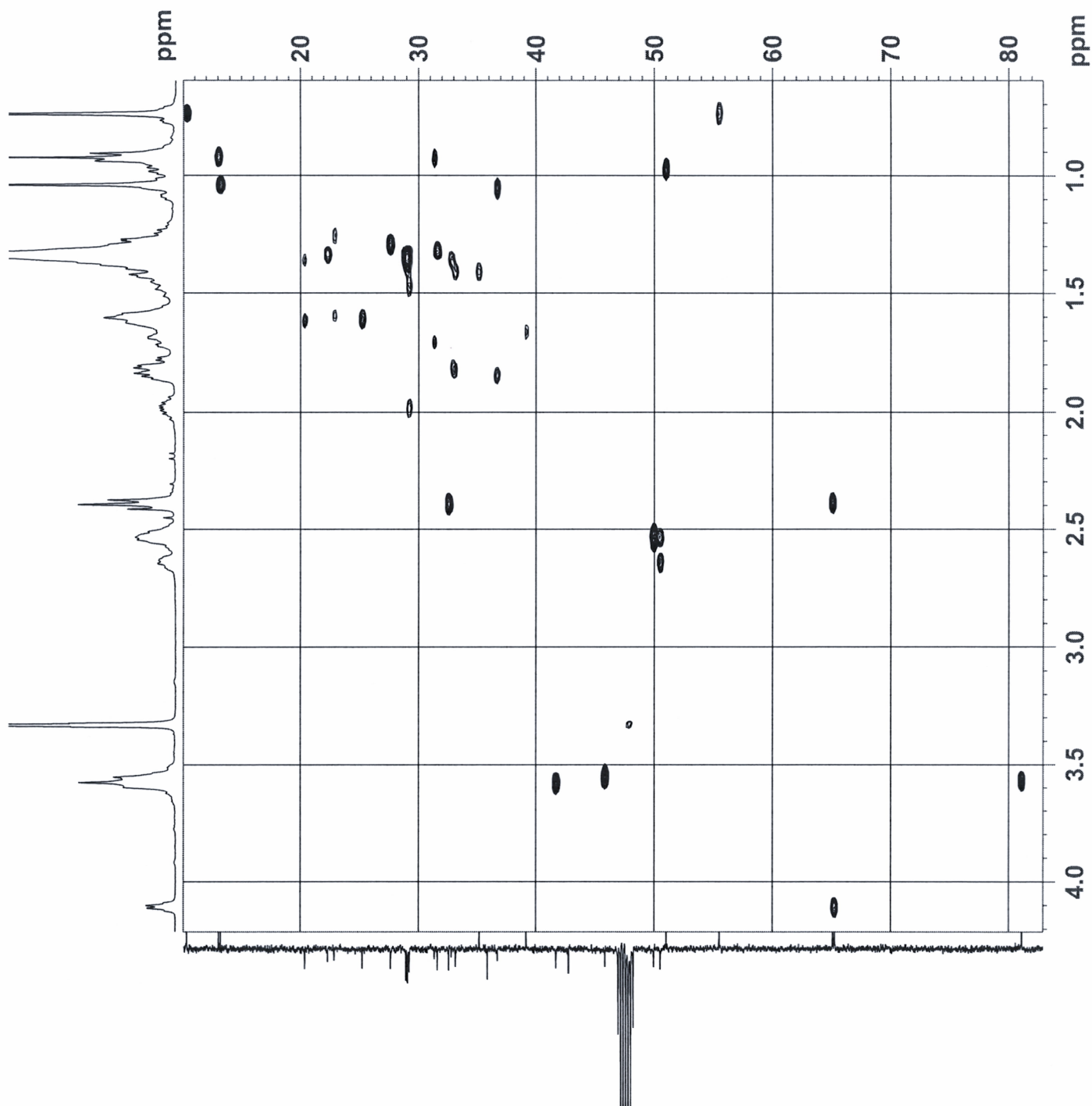


IR-542-17-51
COSY



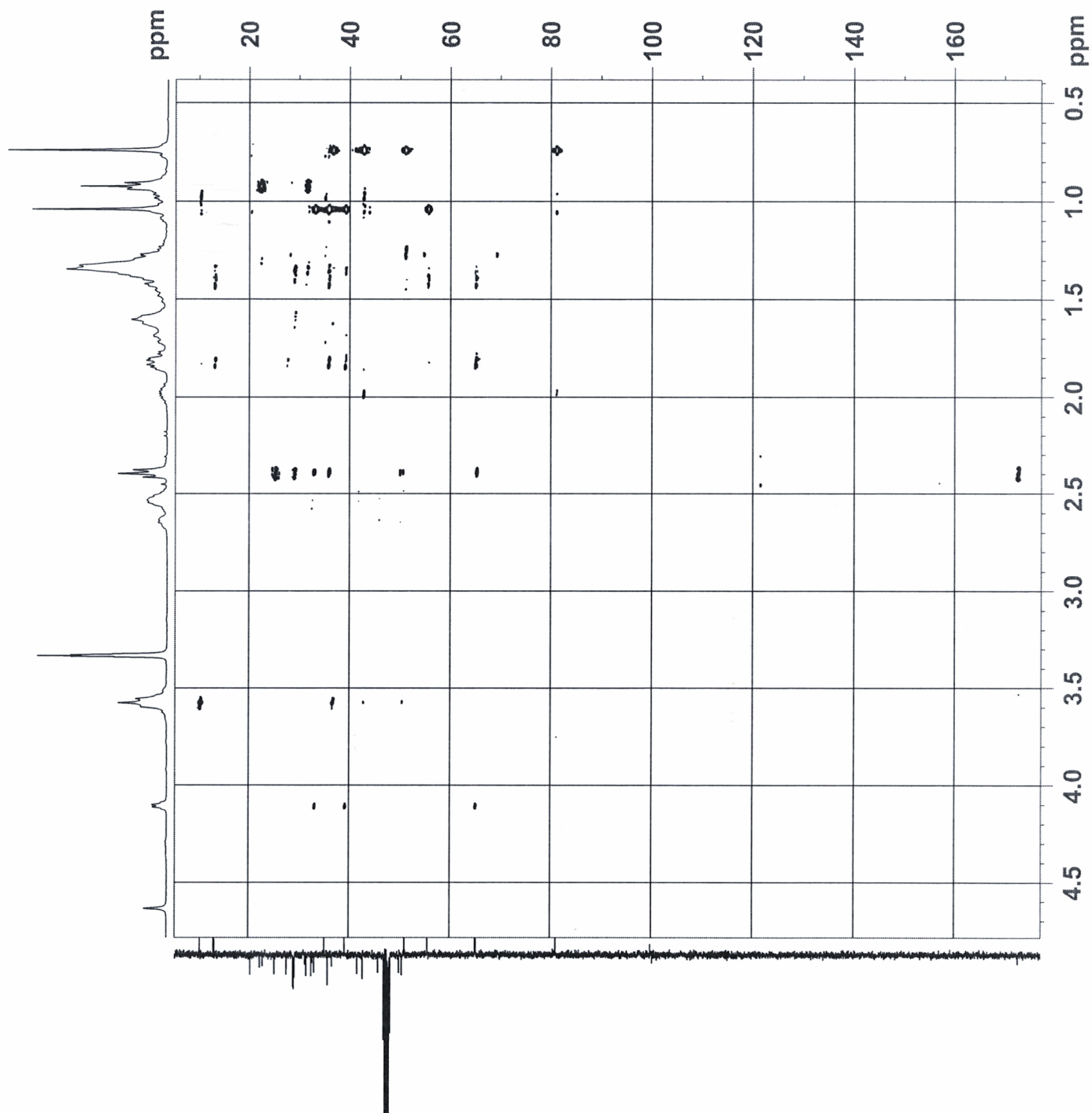
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IR-542-17-51
HSQC

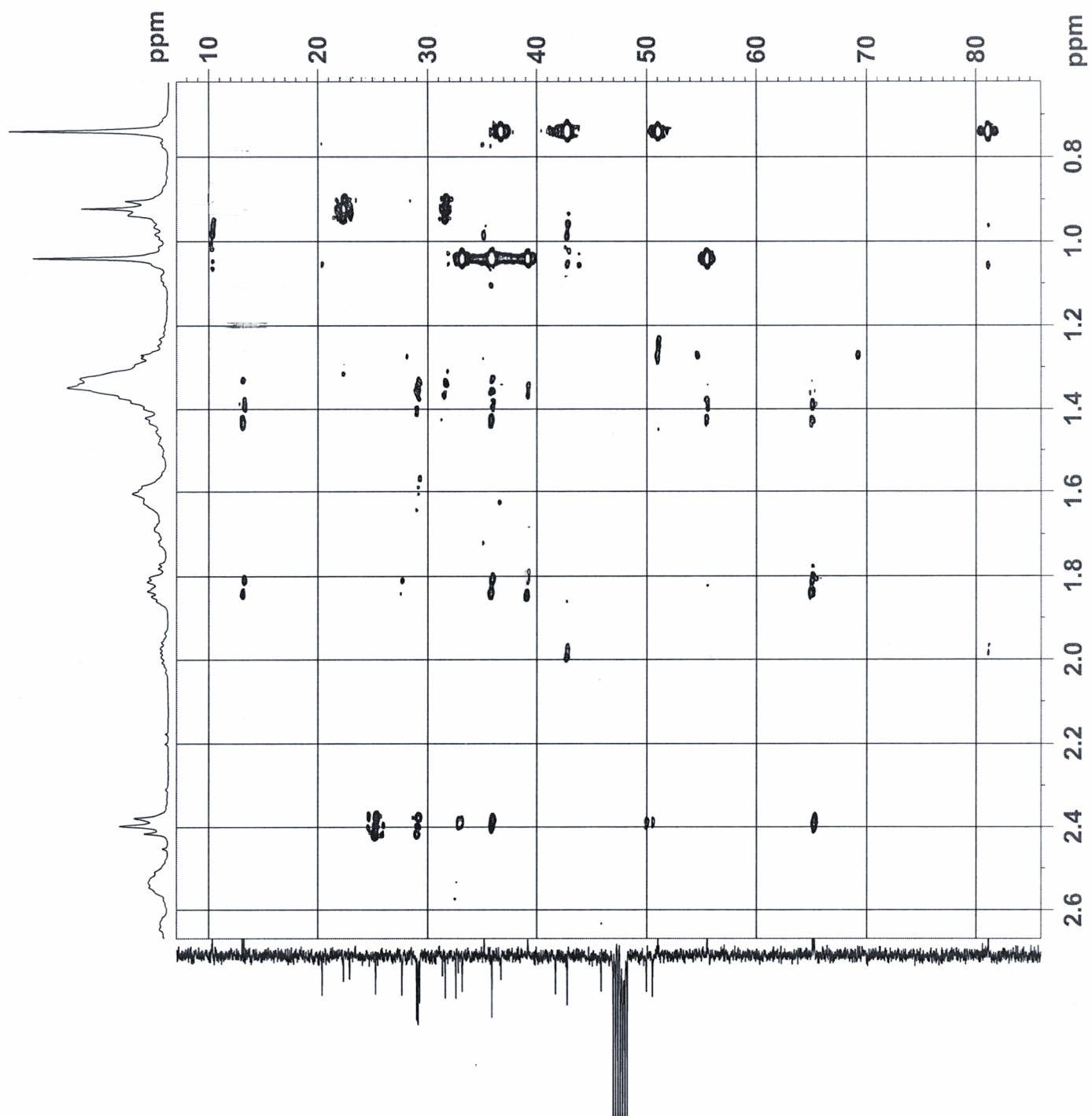


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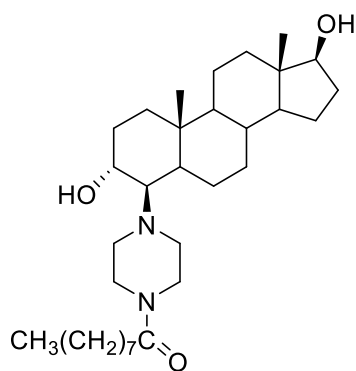
IR-542-17-51
HMBC



IR-542-17-51
HMBC



^1H NMR, ^{13}C NMR (APT), NOESY, COSY, HSQC and HMBC spectra
for compound **2** (IR-542-17-24) in CD_3OD



4.693

2

3

4

5

6

7

8

ppm

Integral

0.242

1.000

5.604

4.404

3.579

0.306

0.162

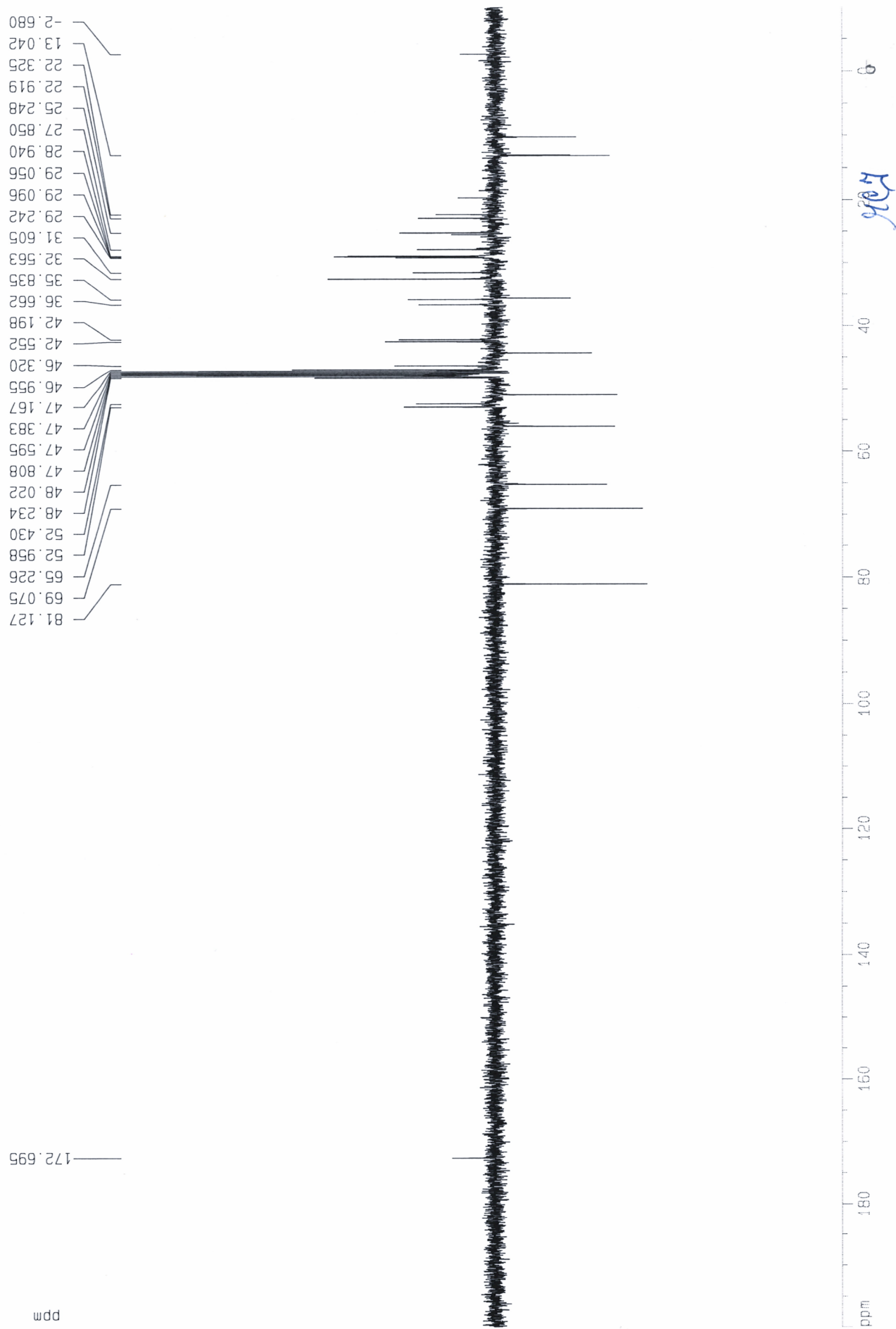
6.673

28.058

11.213

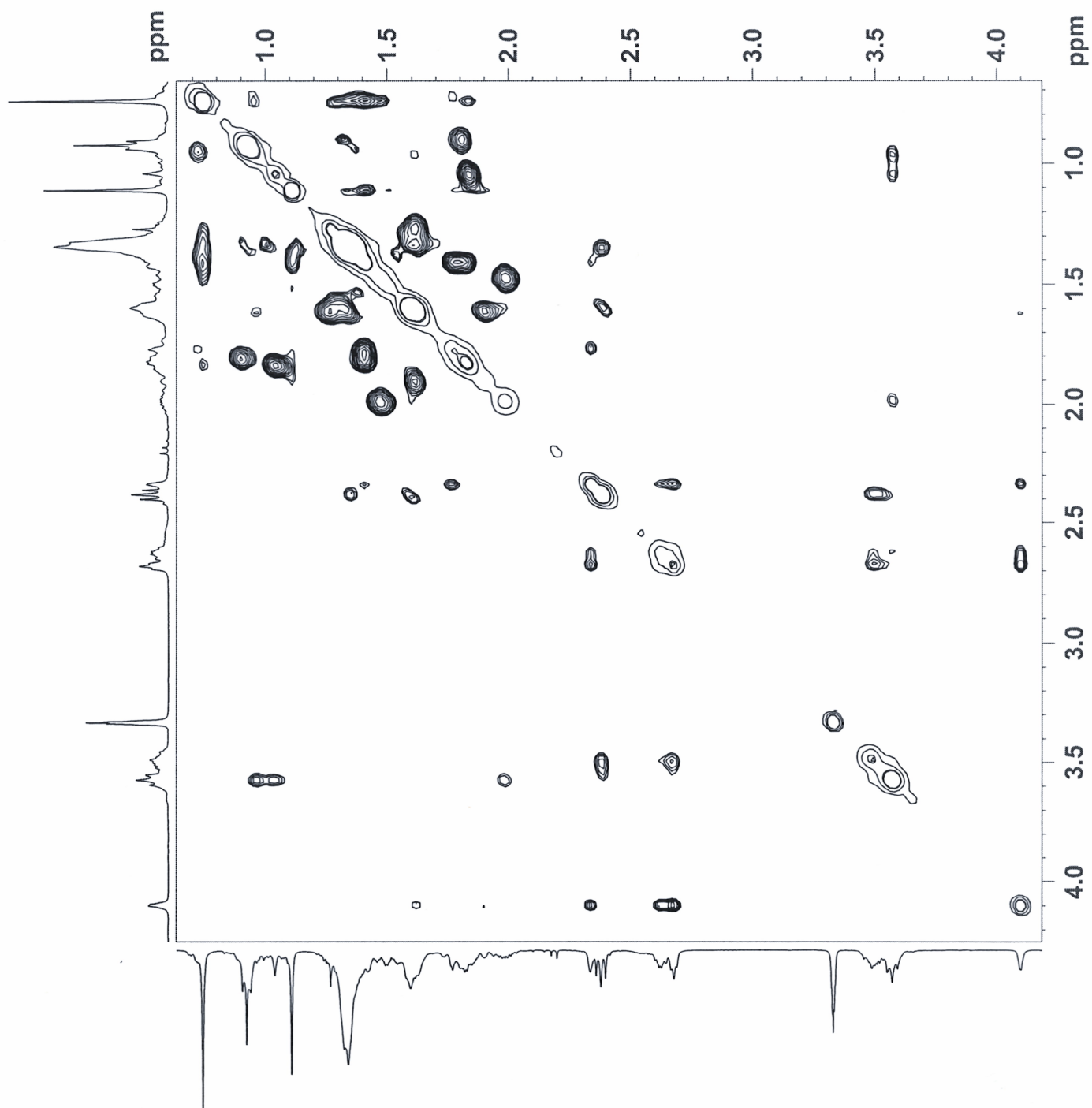
4.693

IR-542-17-24

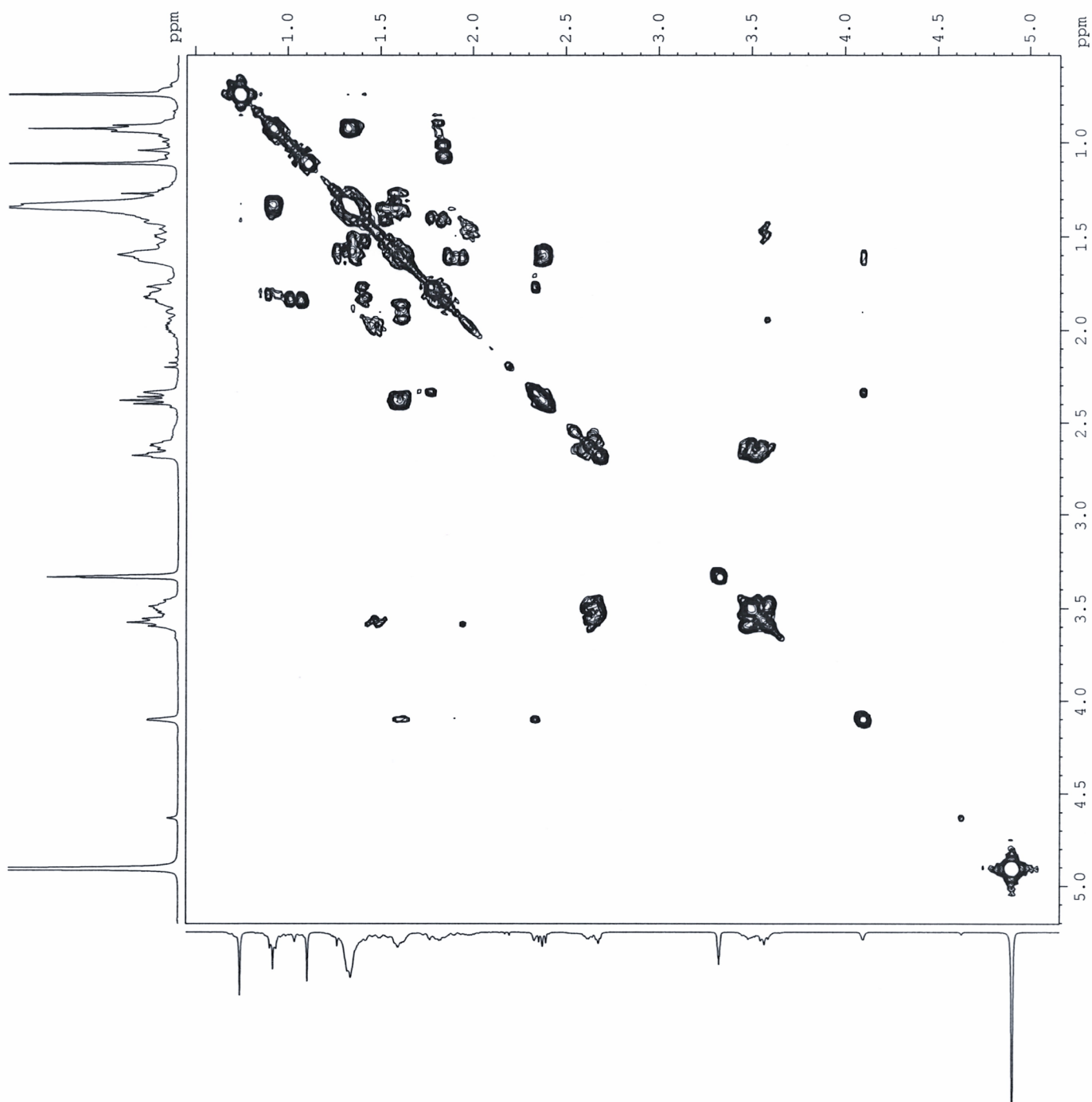


IR-542-17-24
APT

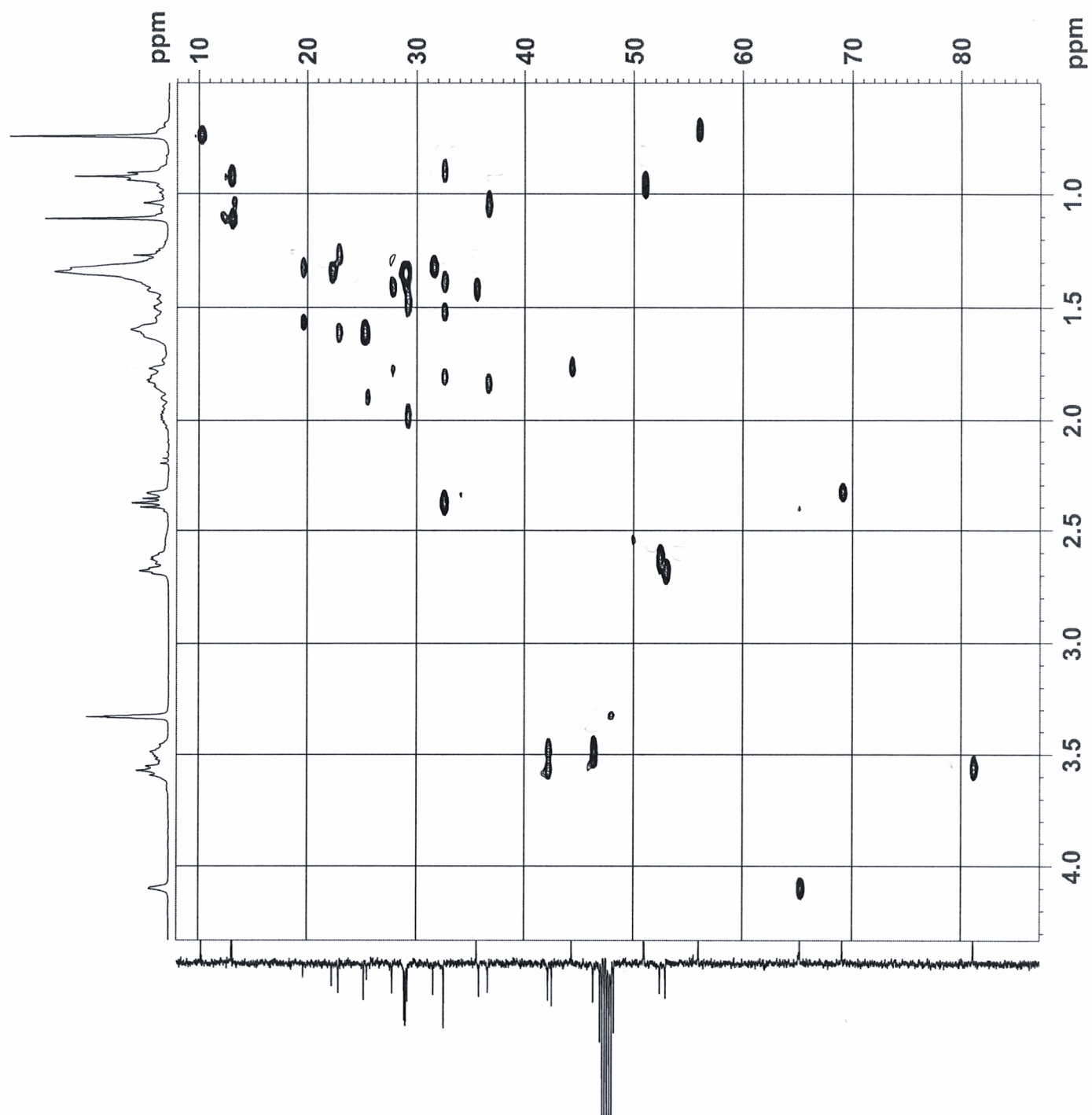
IR-542-17-24
NOESY



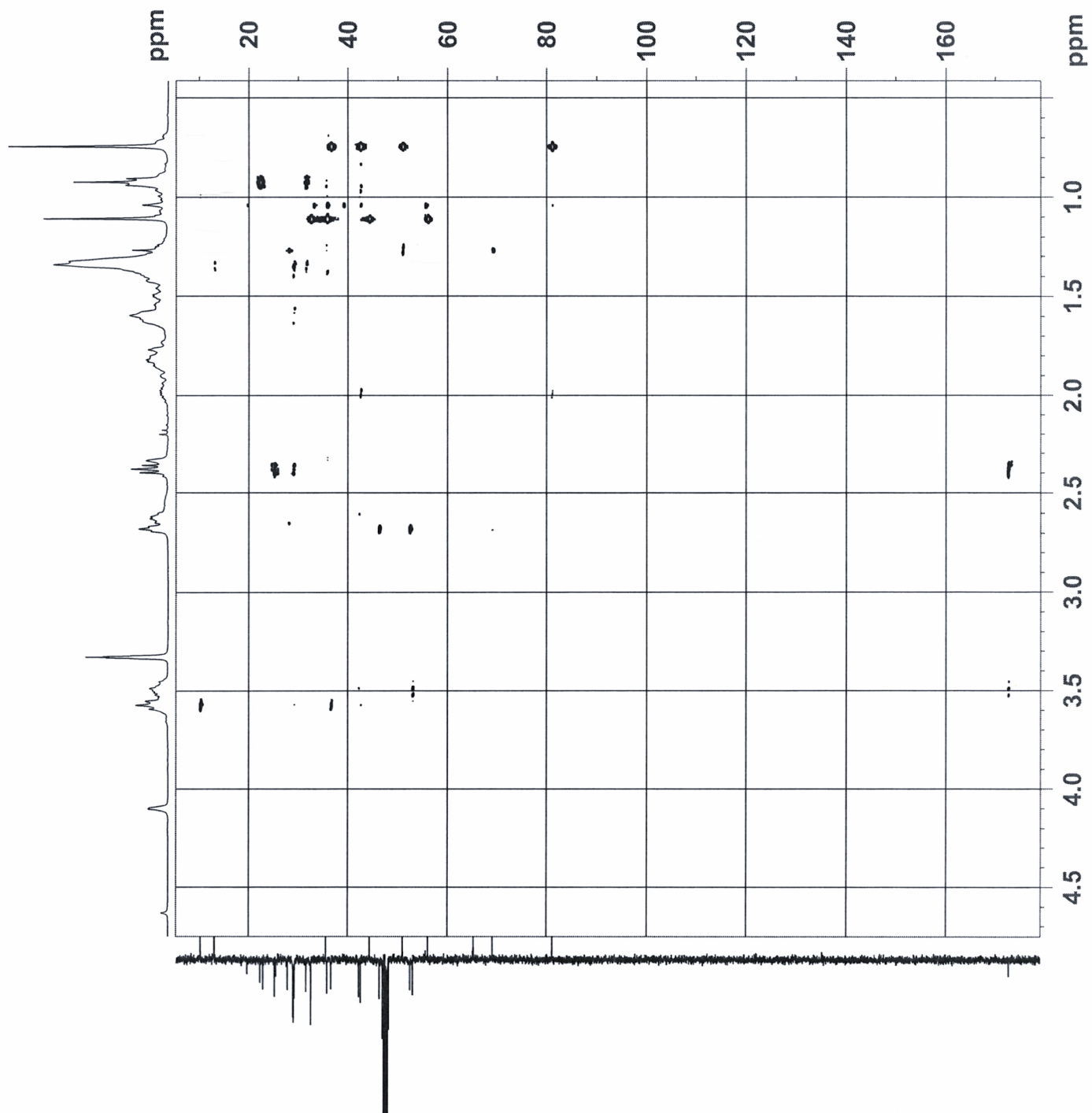
IR-542-17-24
COSY



IR-542-17-24
HSQC

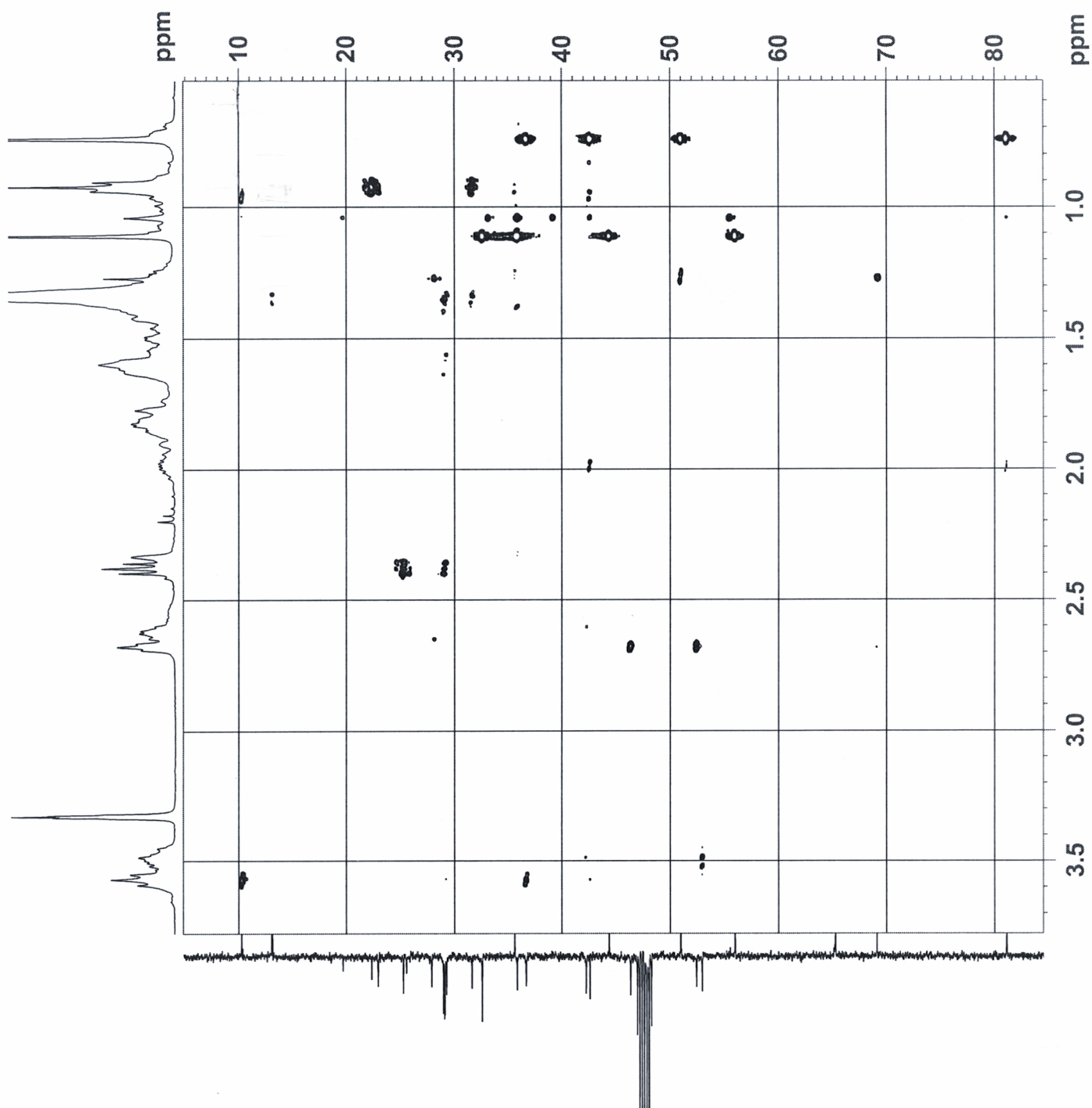


IR-542-17-24
HMBC

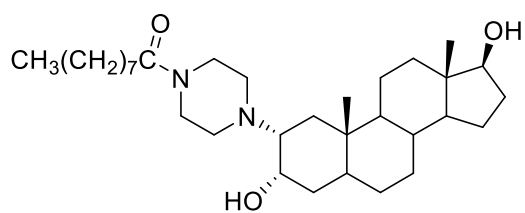


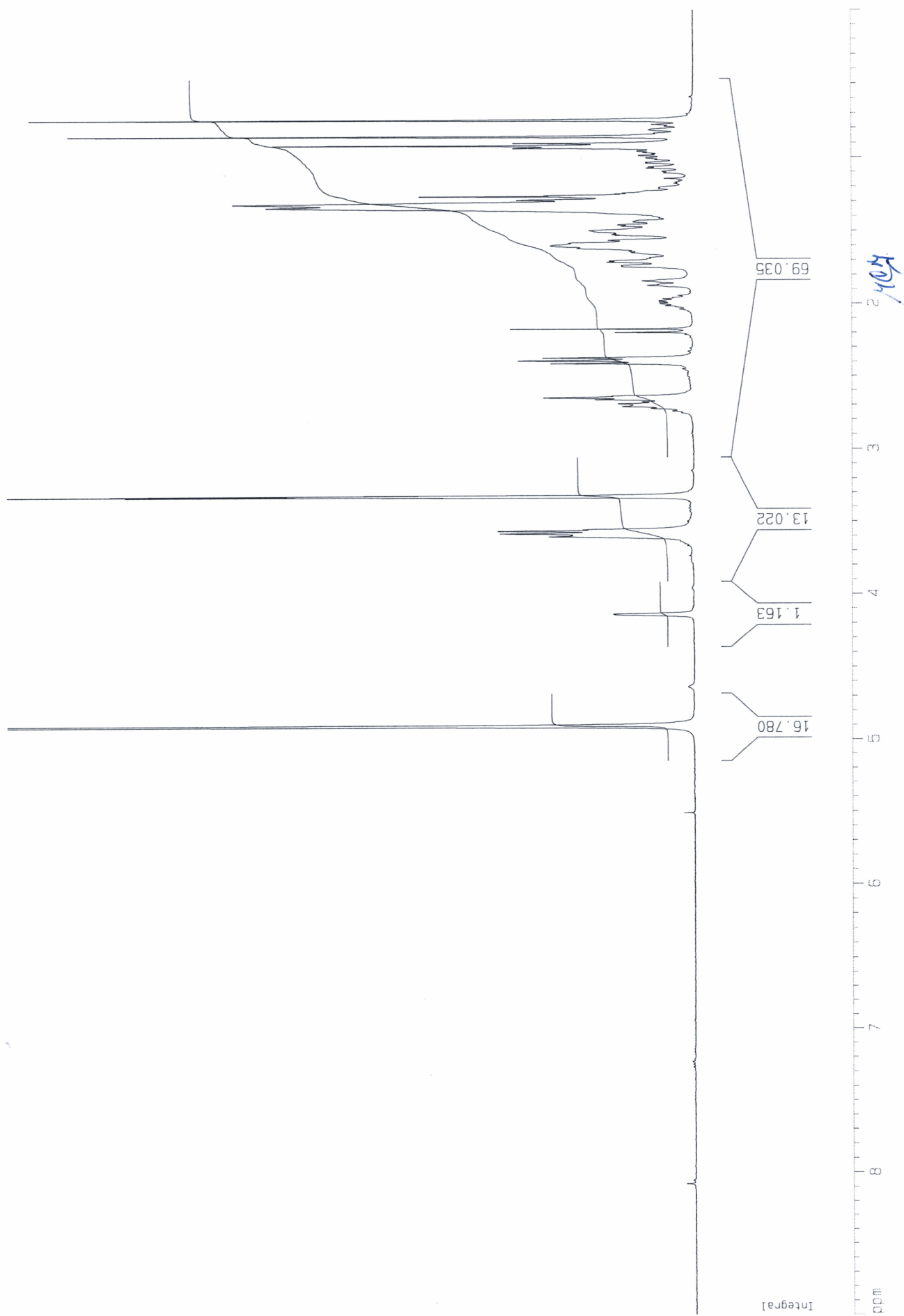
IR-542-17-24
HMBC

104

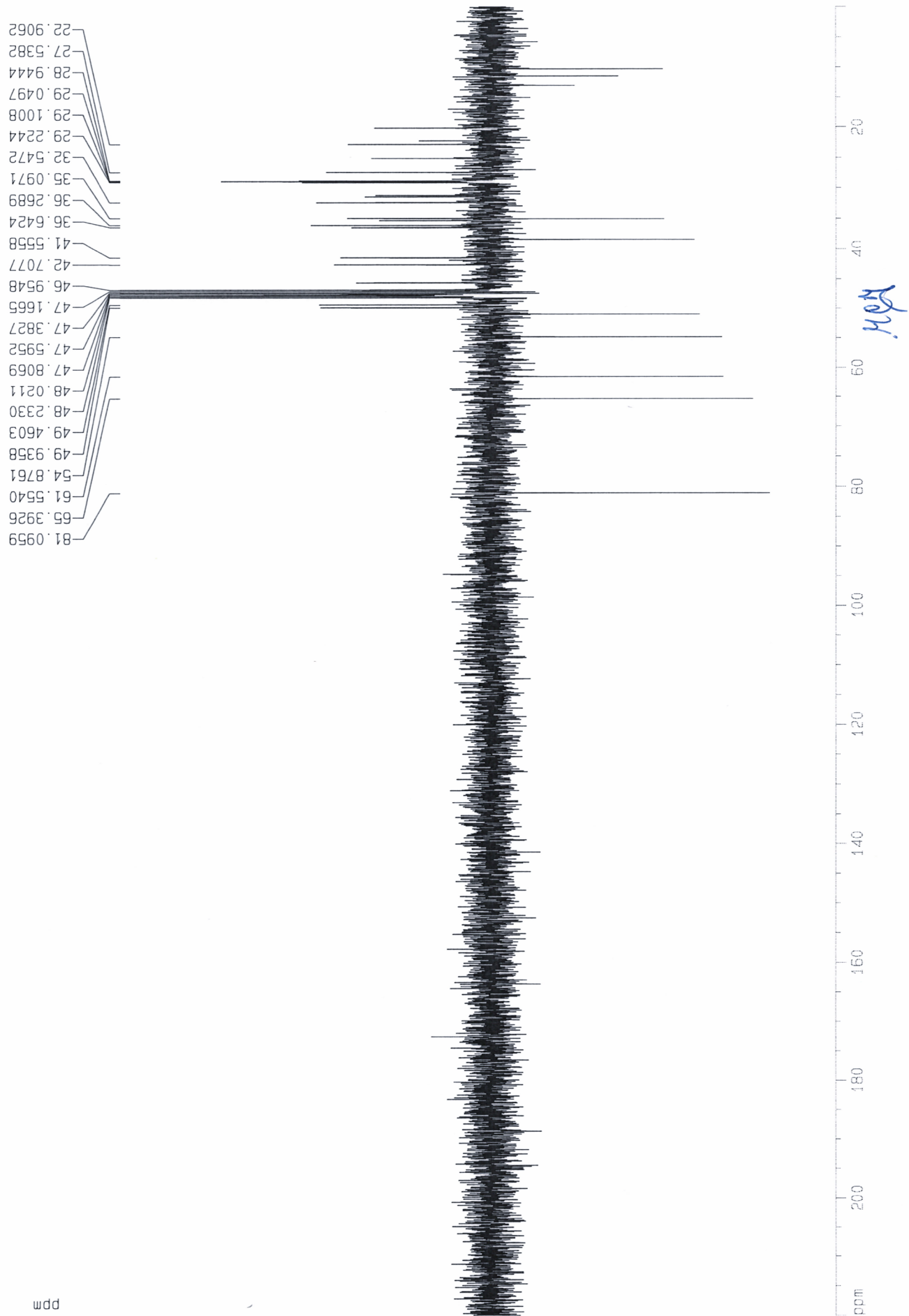


^1H NMR, ^{13}C NMR (APT), NOESY, COSY, HSQC and HMBC spectra
for compound **3** (IR-542-63-30) in CD_3OD

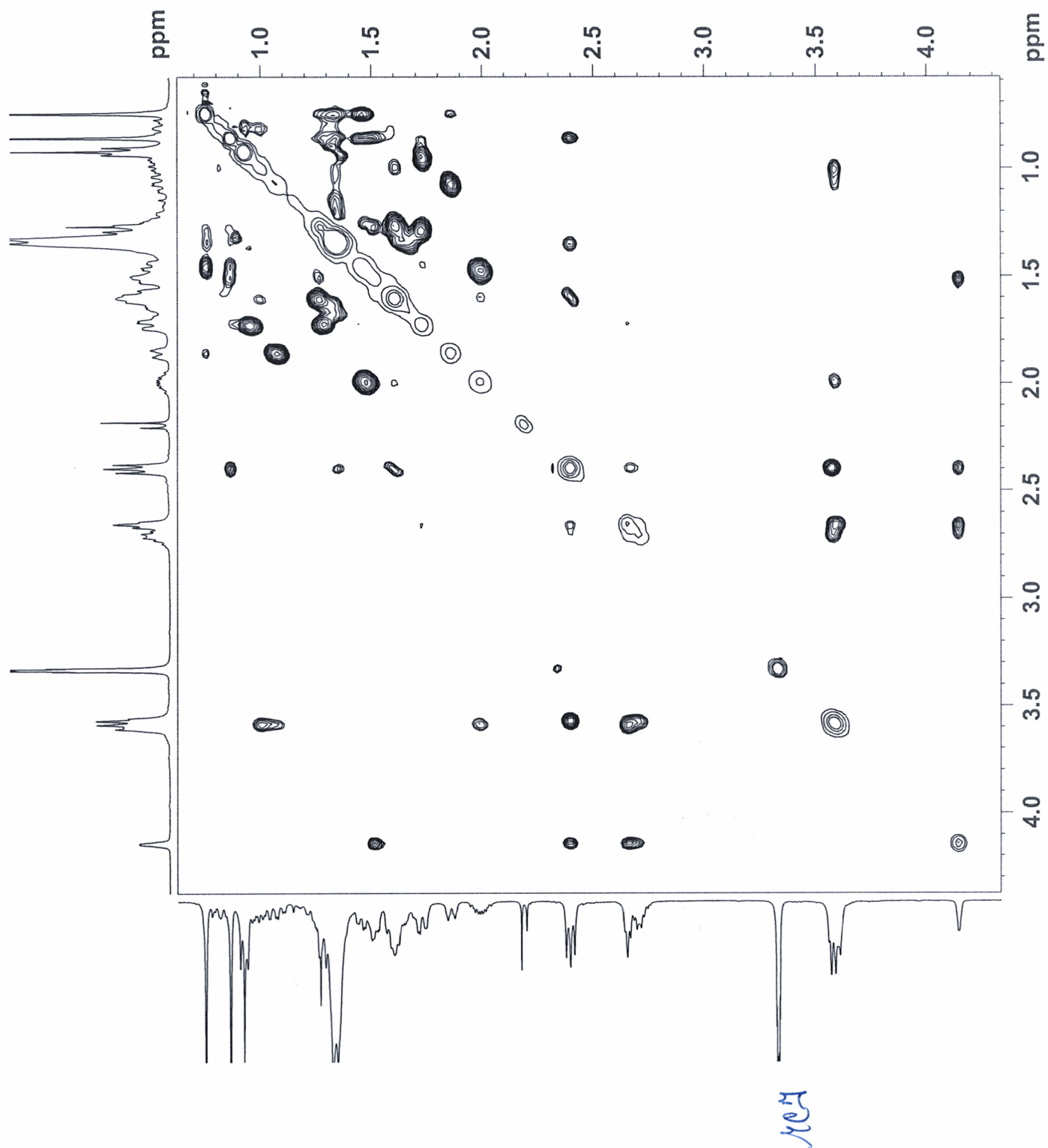




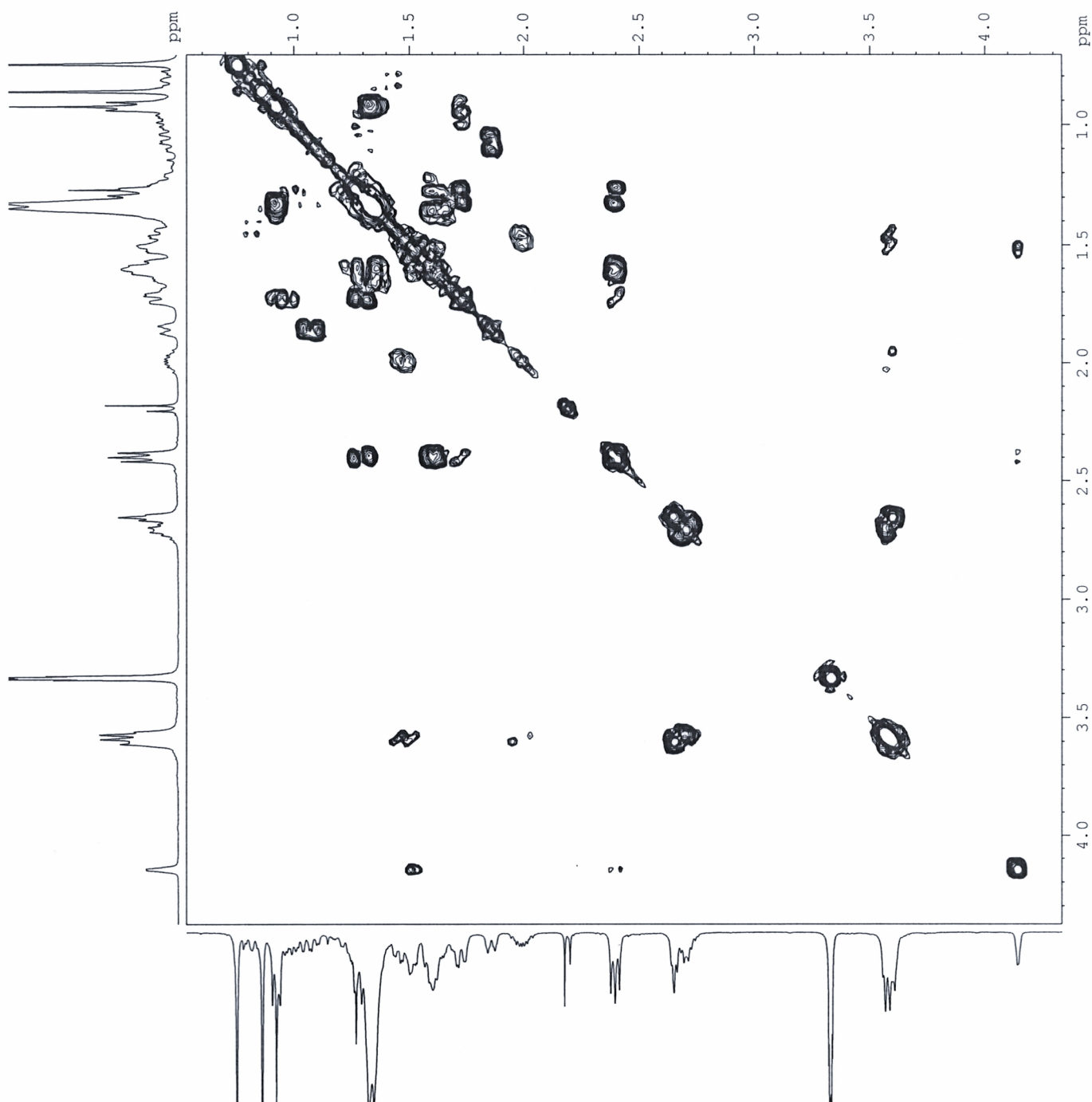
IR-542-65-30



IR-542-65-30
NOESY

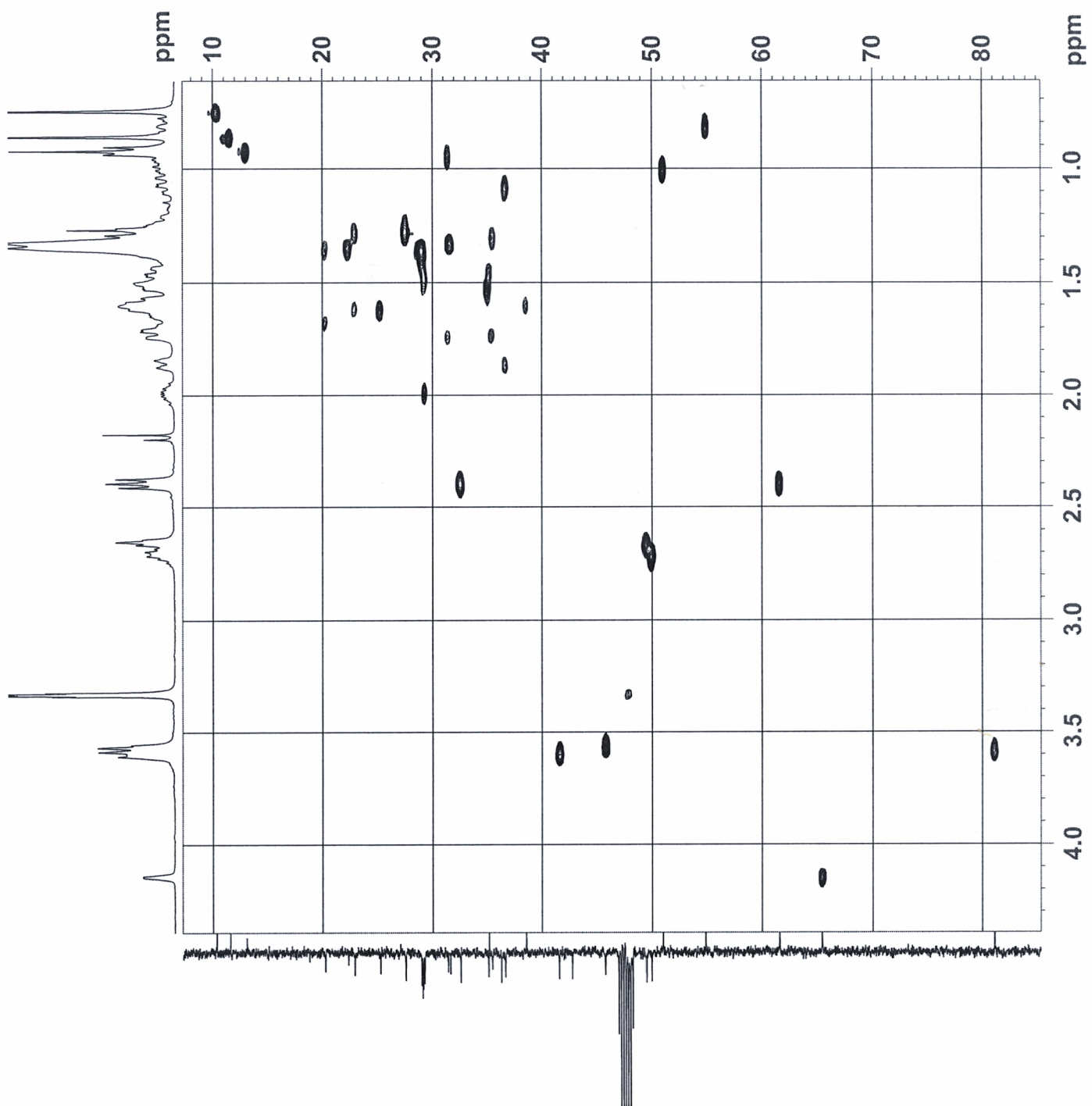


IR-542-65-30
COSY

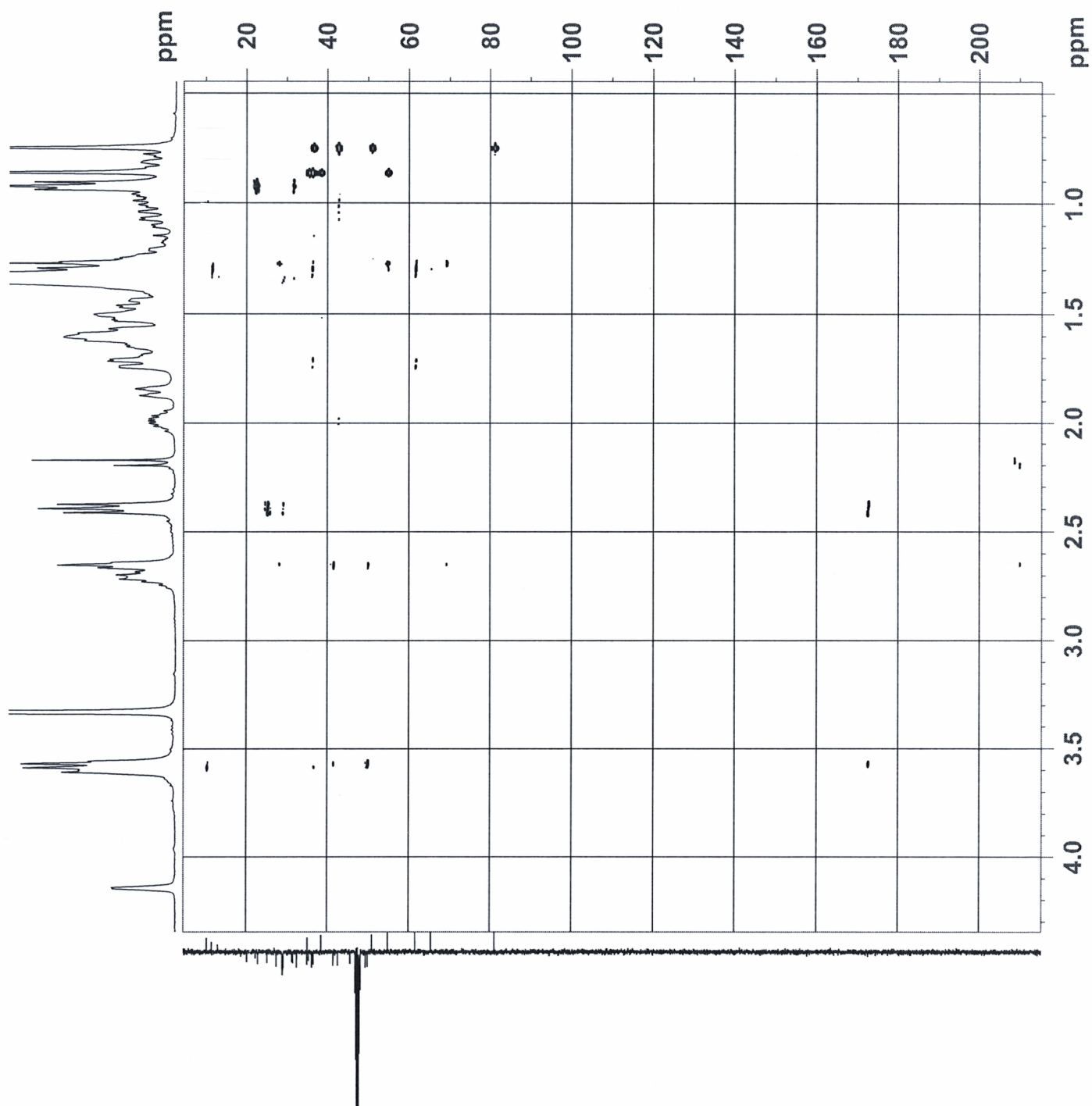


MeH

IR-542-65-30
HSQC

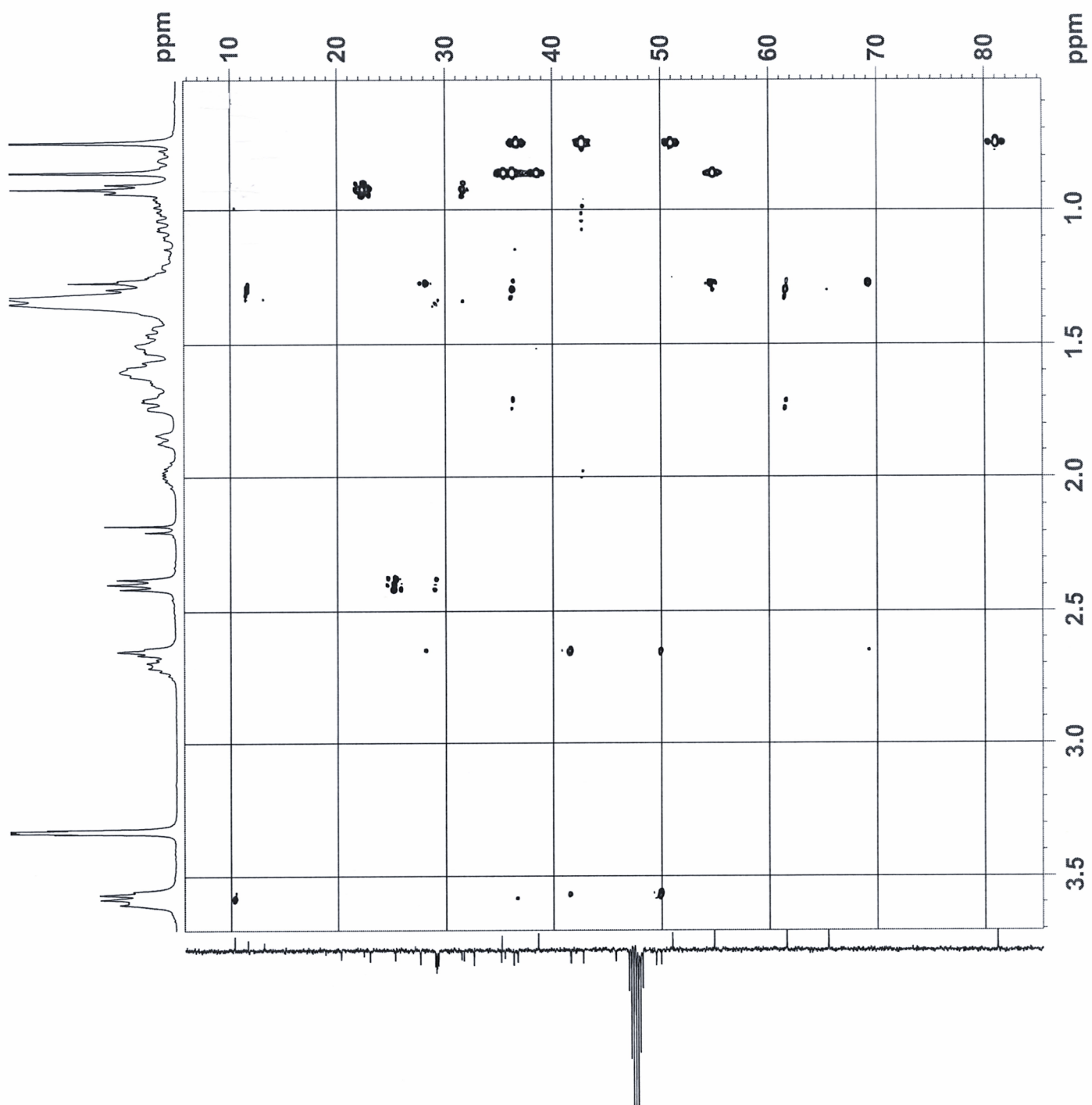


IR-542-65-30
HMBC

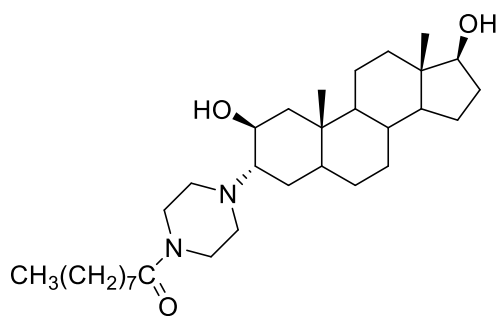


MS

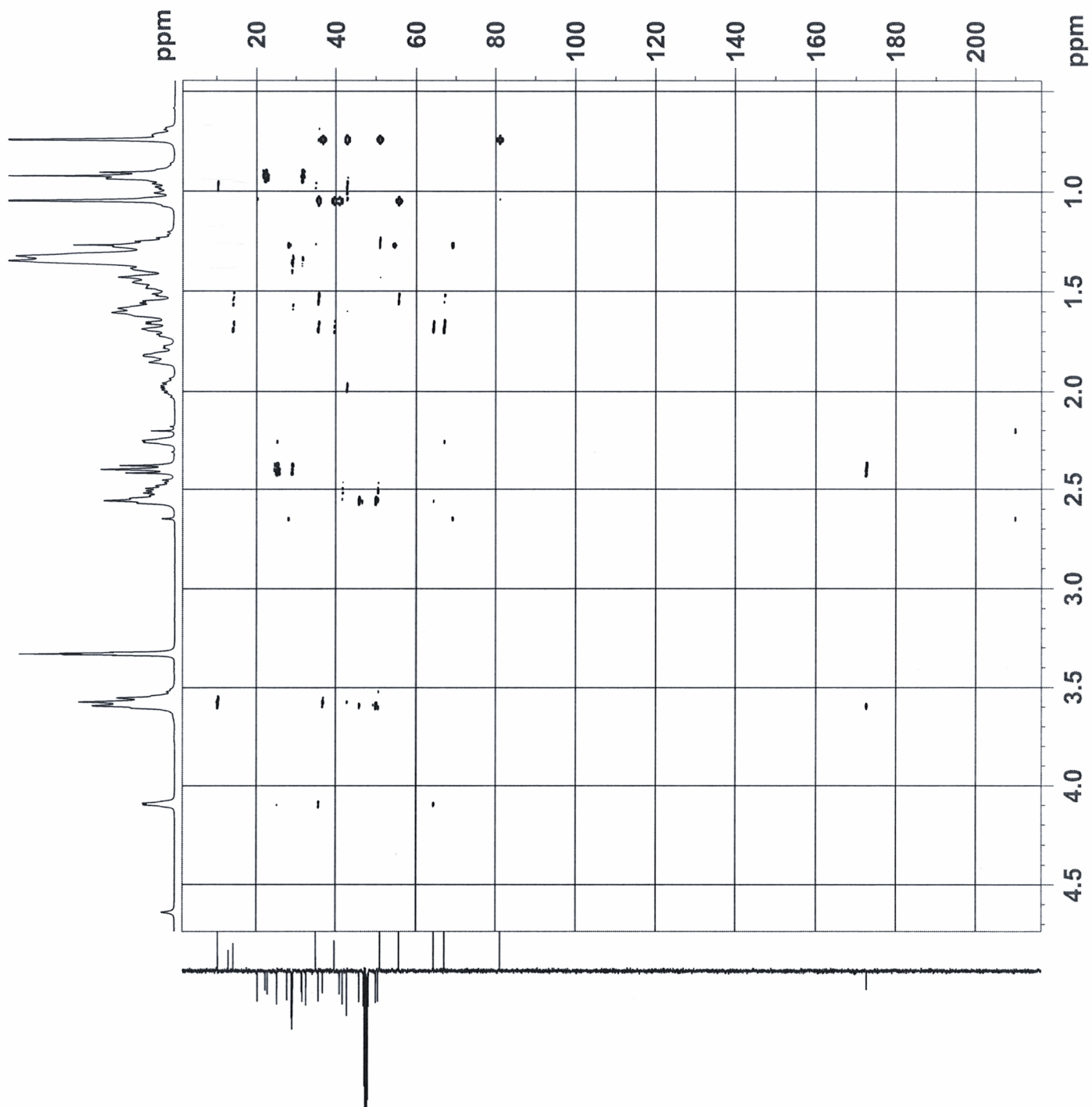
IR-542-65-30
HMBC



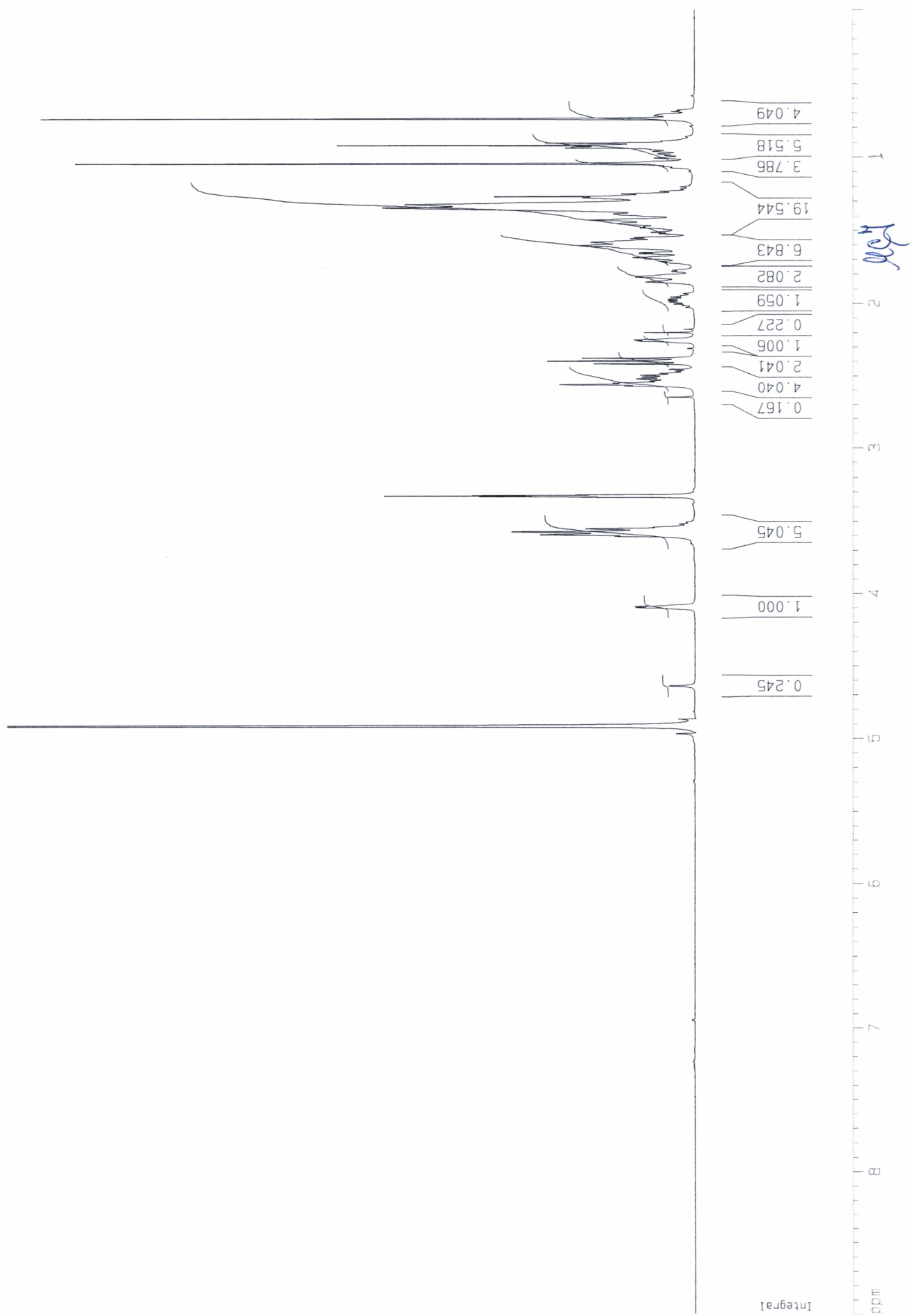
^1H NMR, ^{13}C NMR (APT), NOESY, COSY, HSQC and HMBC spectra
for compound **4** (IR-542-47-27) in CD_3OD



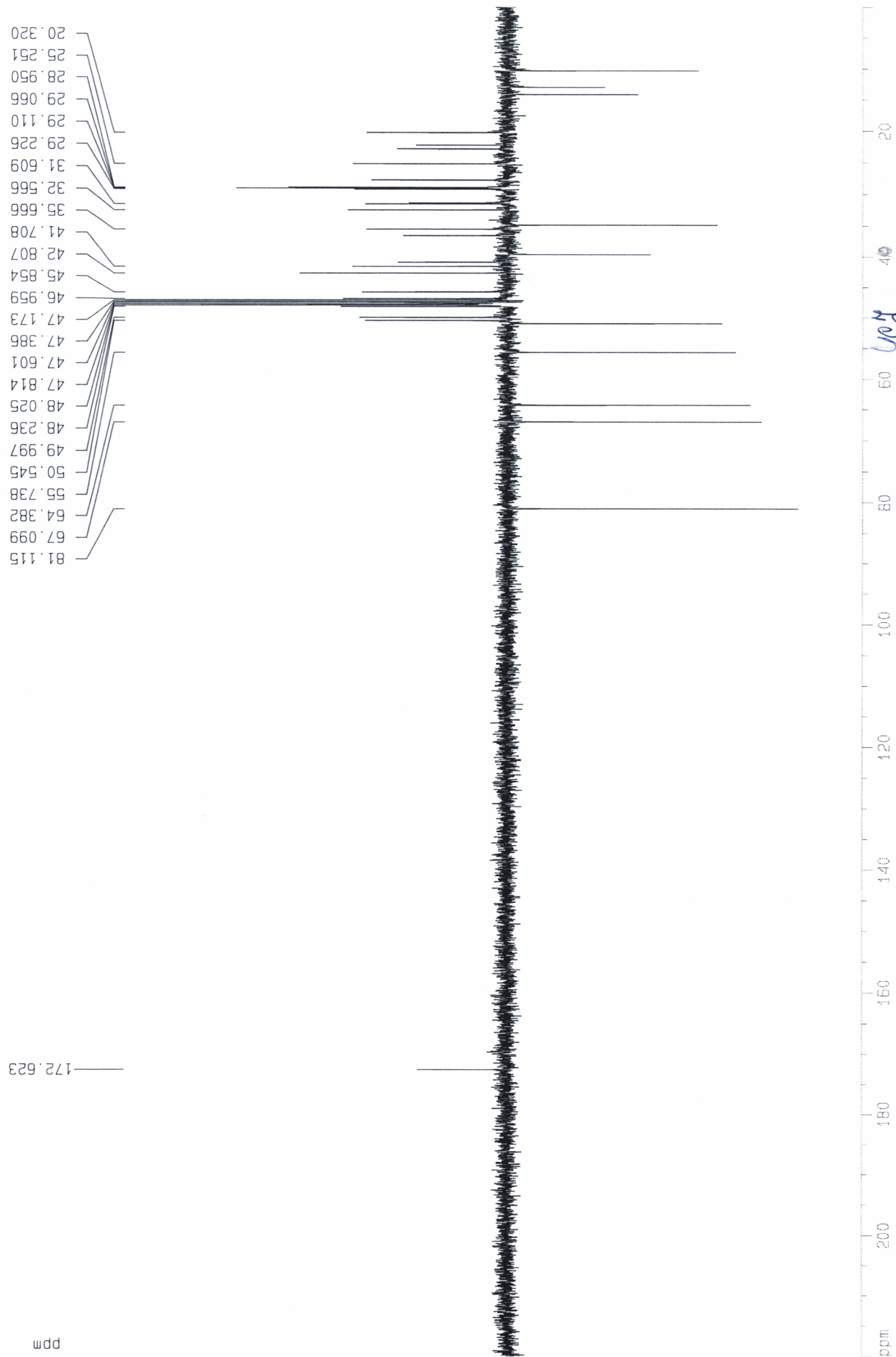
IR-542-47-27
HMBC



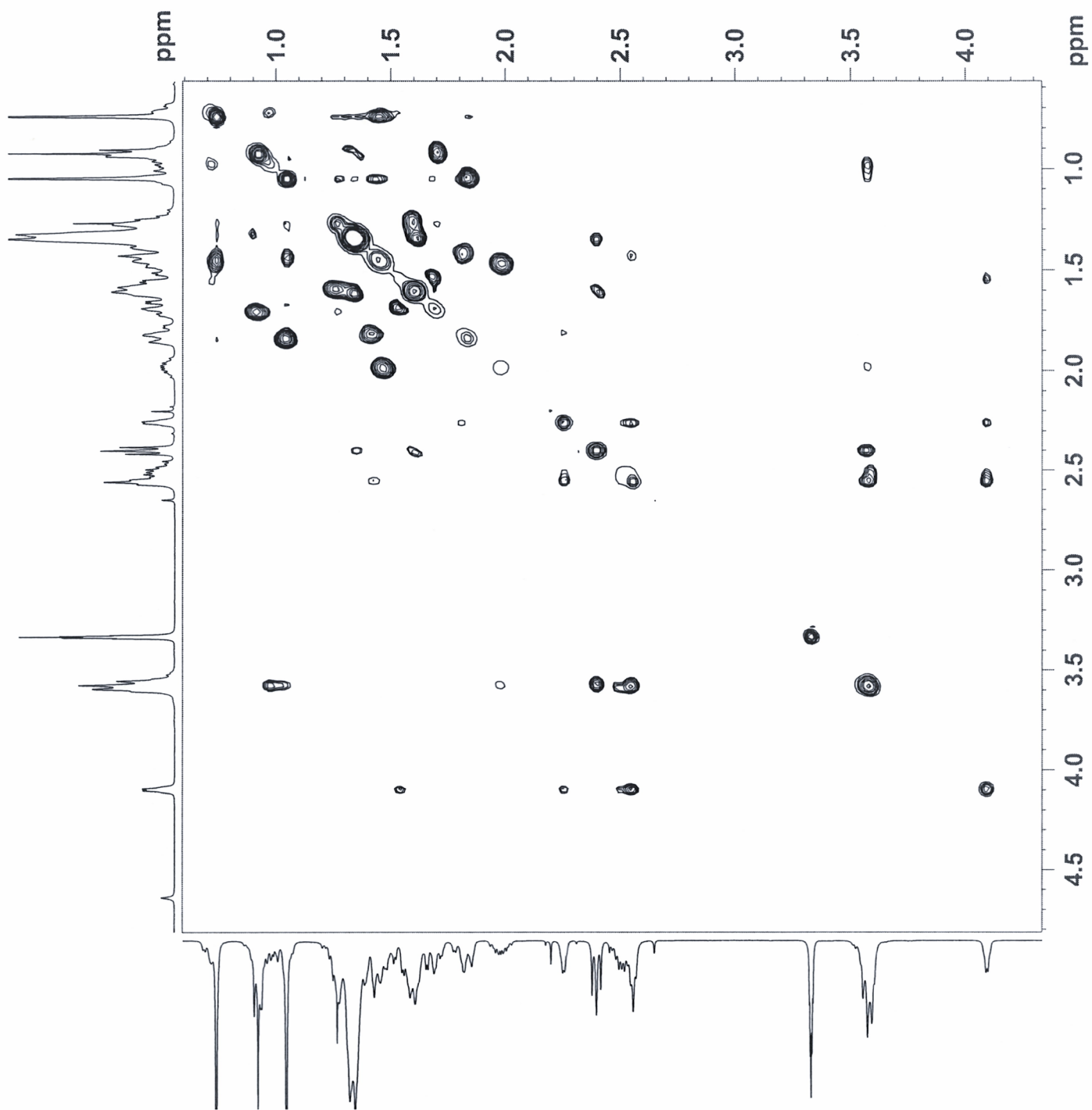
40A



IR-542-47-27
APT

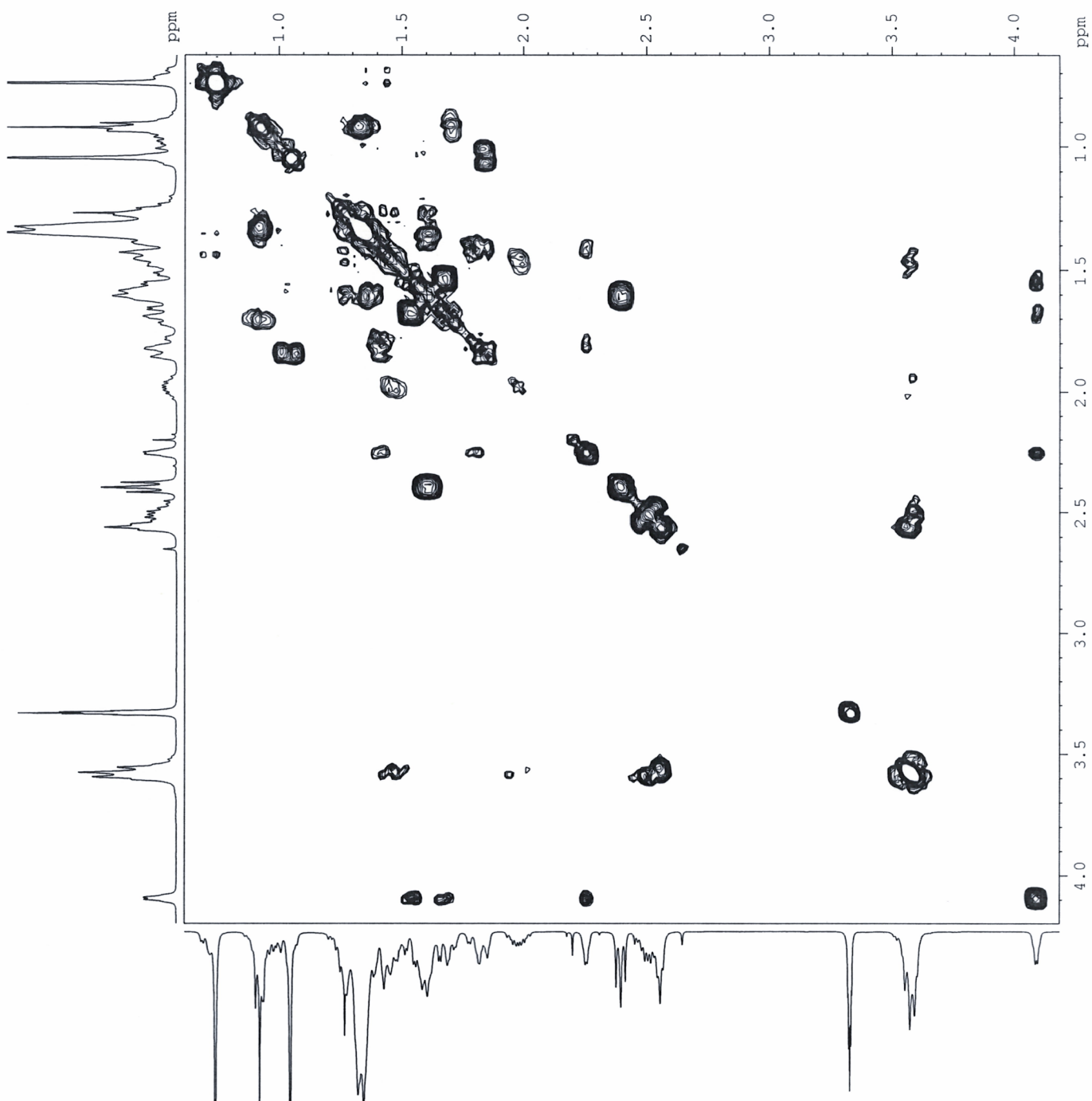


IR-542-47-27
NOESY



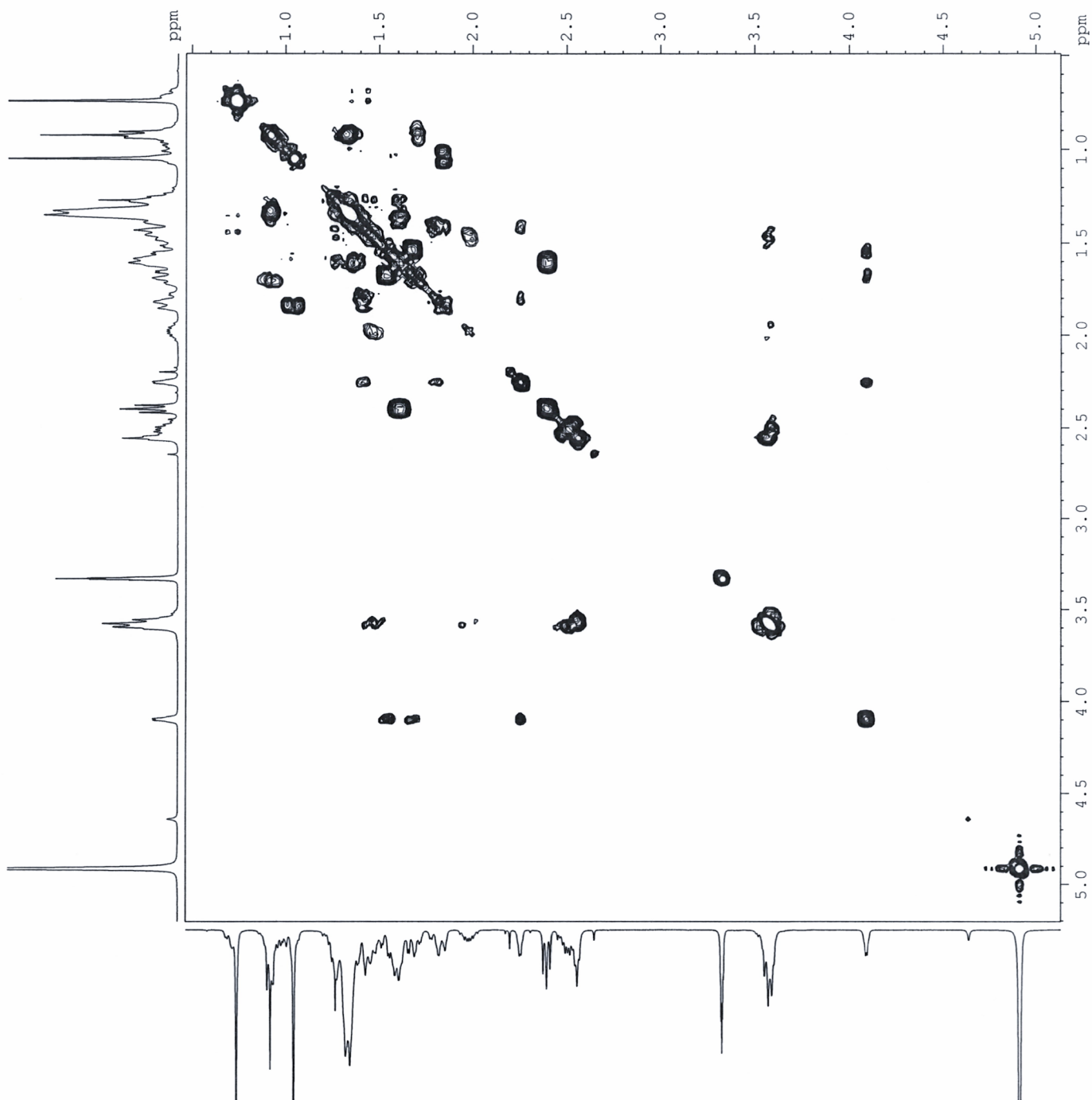
Key

IR-542-47-27
COSY

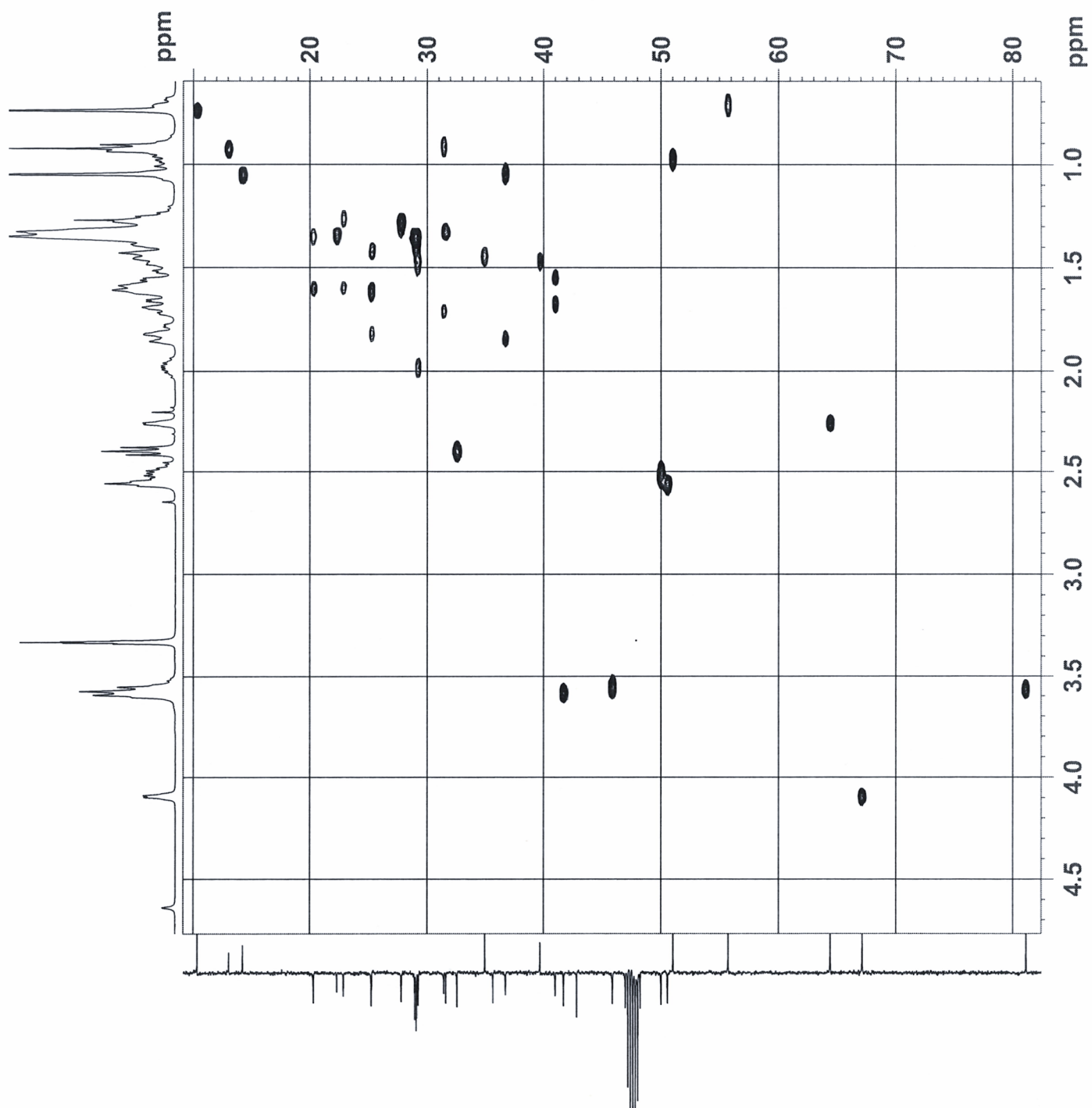


2014

IR-542-47-27
COSY



IR-542-47-27
HSQC



HCY

IR-542-47-27
HMBC

