

Supplementary material

Core-size and geometry versus toxicity in small amino terminated PAMAM dendrimers.

Claus Bøge Hansen^a, Anna Janaszewska^b, Monika Dąbrzalska^b, Monika Marcinkowska^b, Barbara Klajnert-Maculewicz^b, Jørn Bolstad Christensen^{a*}

^a Department of Chemistry, Faculty of Science, University of Copenhagen, Thorvaldsensvej 40, DK-1871 Frederiksberg, Denmark; ibc@chem.ku.dk

^b Department of General Biophysics, Faculty of Biology and Environmental Protection, University of Łódź, 141/143 Pomorska Street, 90-236 Łódź, Poland

NMR- and ESMS-spectra of the compounds synthesized

Compound 1: Page 2-5

Compound 2: Page 6 – 9

Compound 3: Page 10 – 13

Compound 4: Page 14 – 17

Compound 5: Page 18 – 21

Compound 6: Page 22 – 25

Compound 7: Page 26 – 29

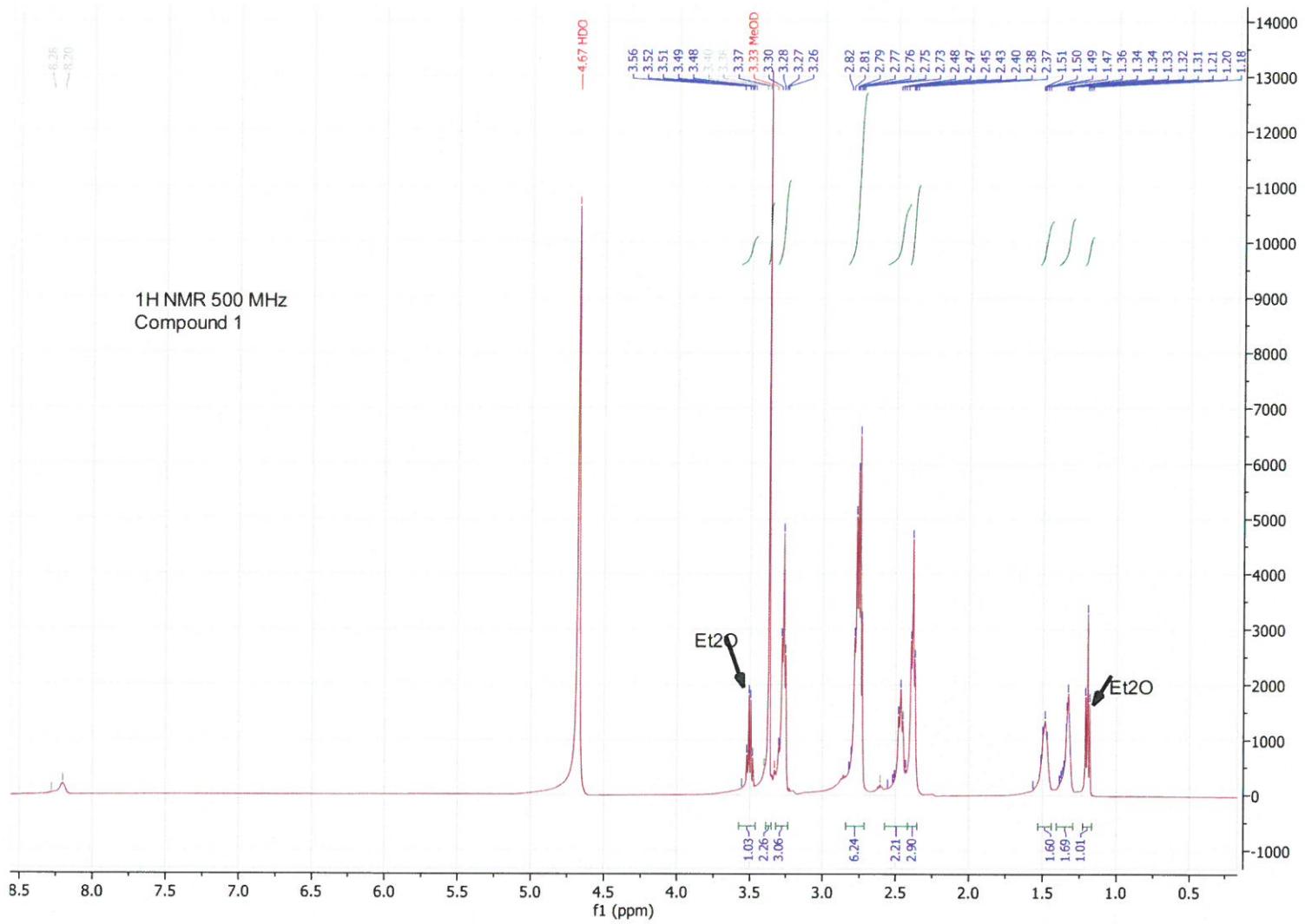
Compound 8: Page 30 – 33

Compound 9: Page 34 – 37

Compound 10: Page 38 – 41

Compound 11: Page 42 – 45

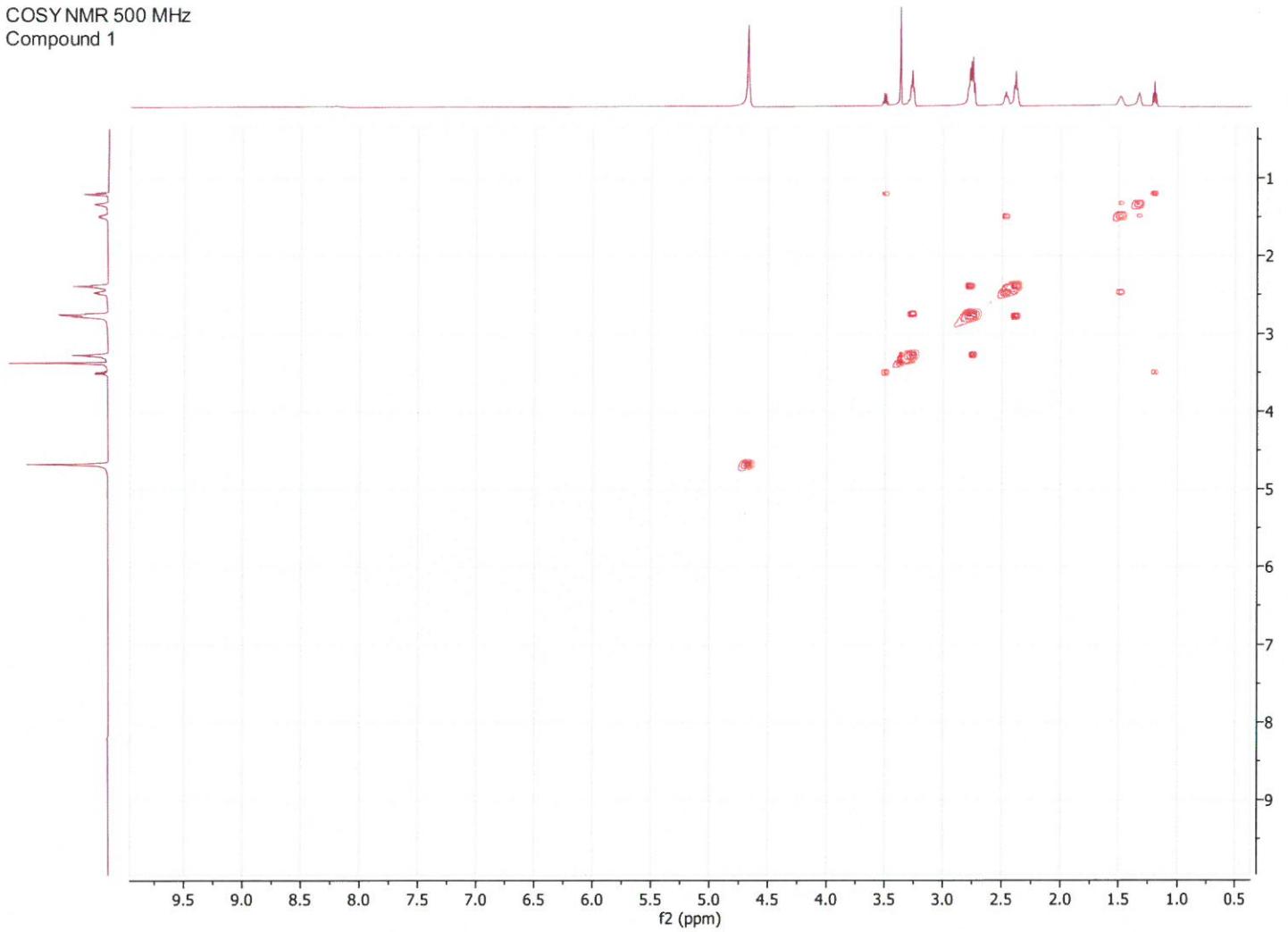
Compound 12: Page 46 – 49



1H NMR 500 MHz
Compound 1

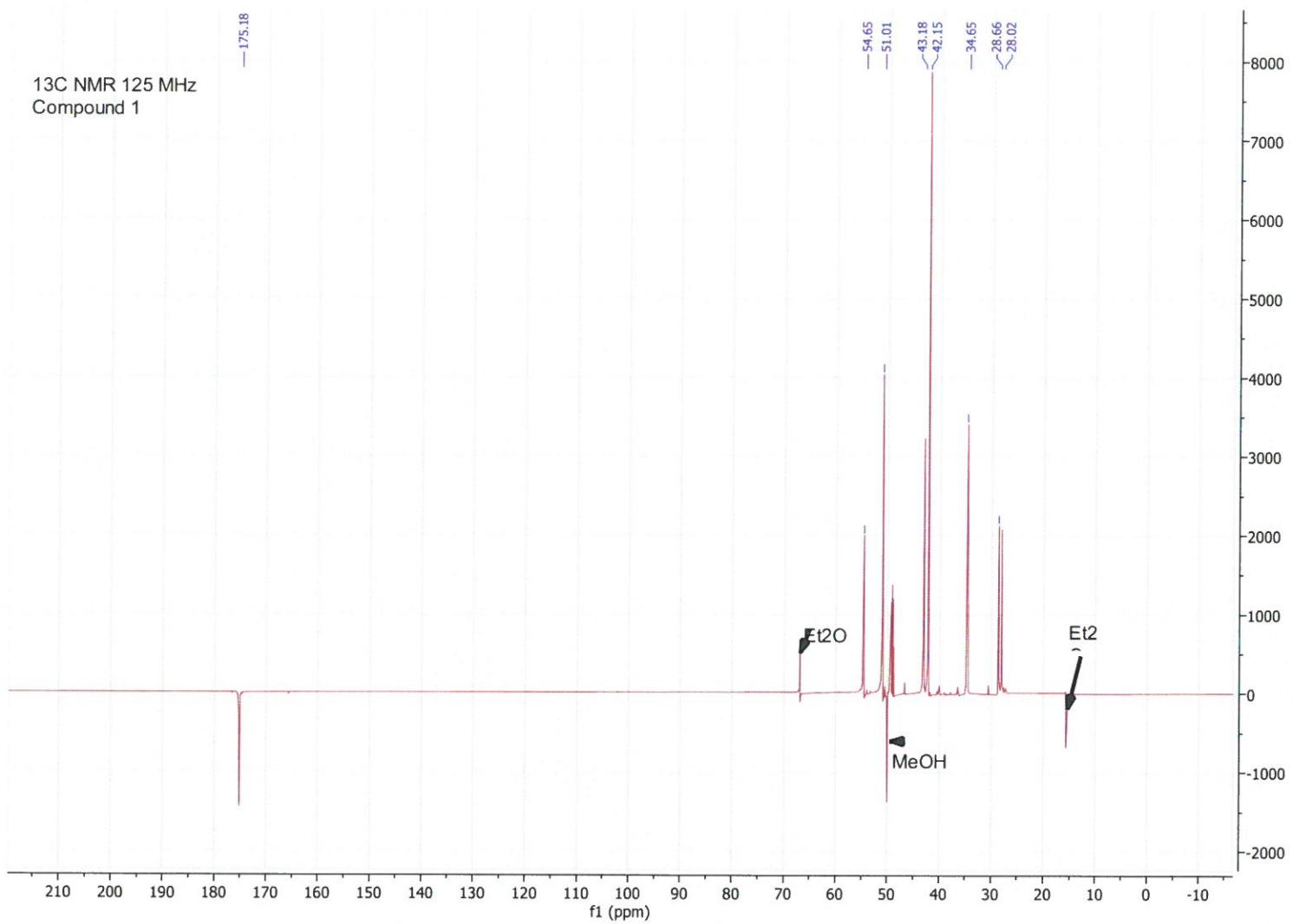
2

COSY NMR 500 MHz
Compound 1



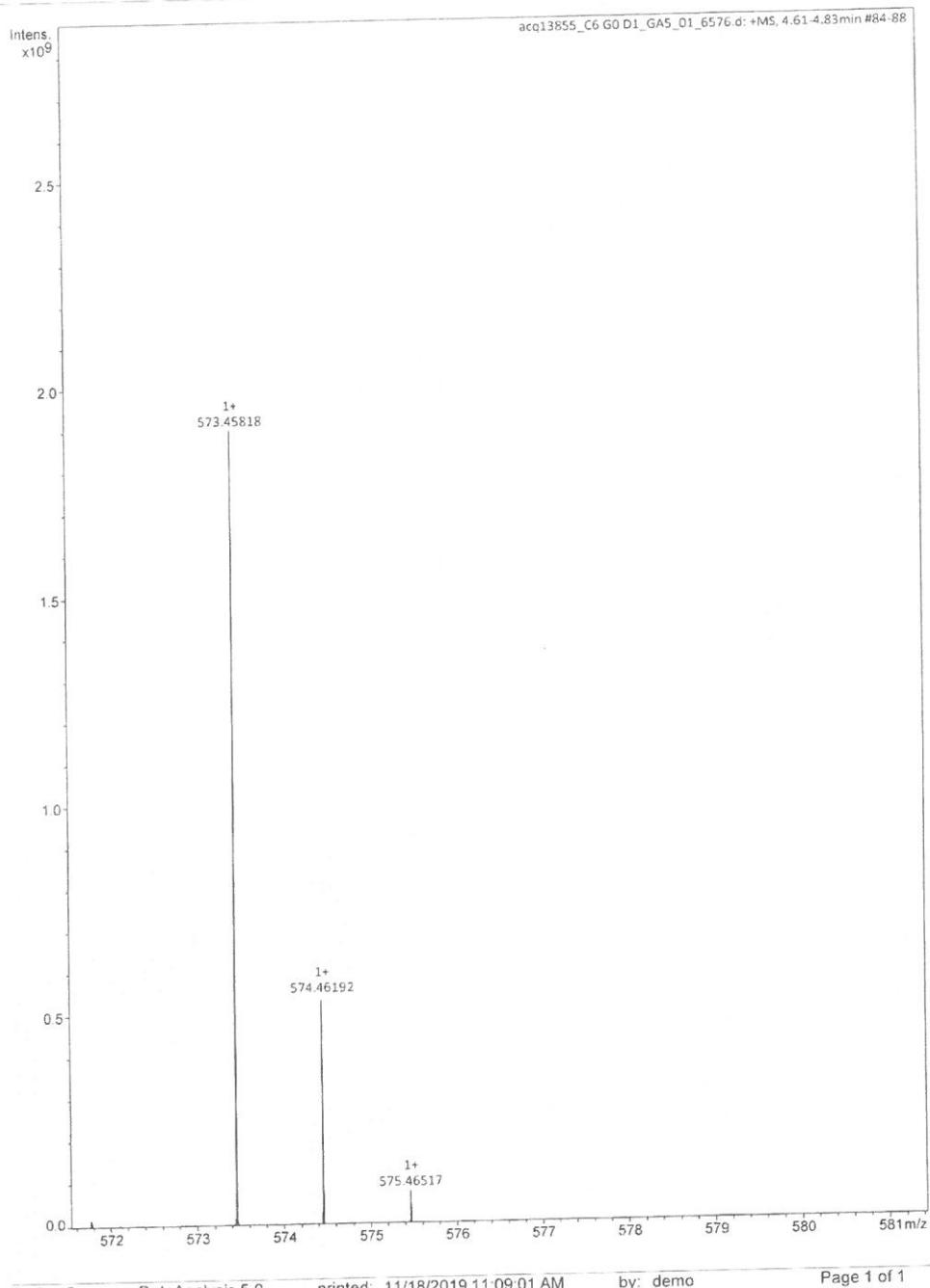
3

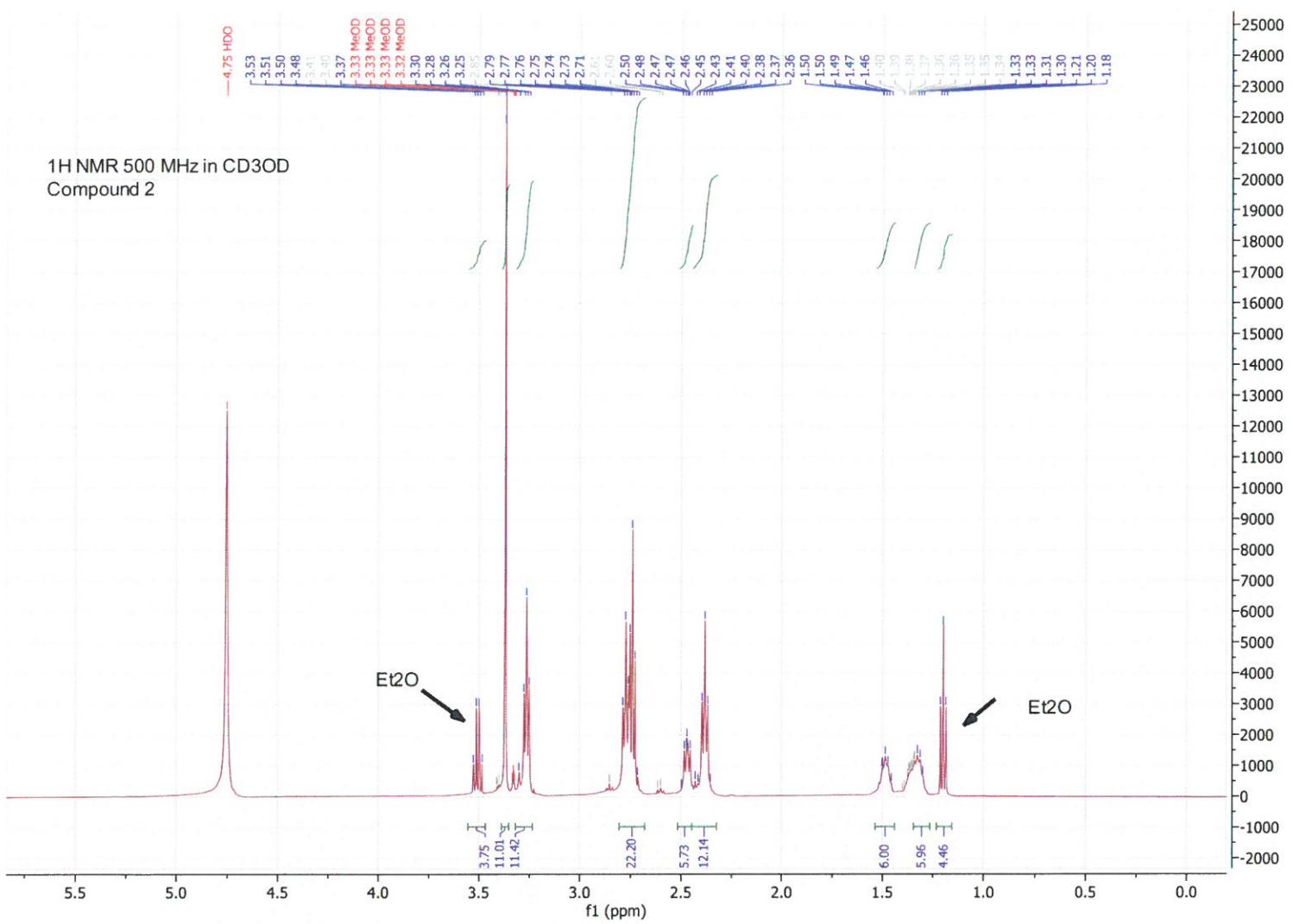
¹³C NMR 125 MHz
Compound 1



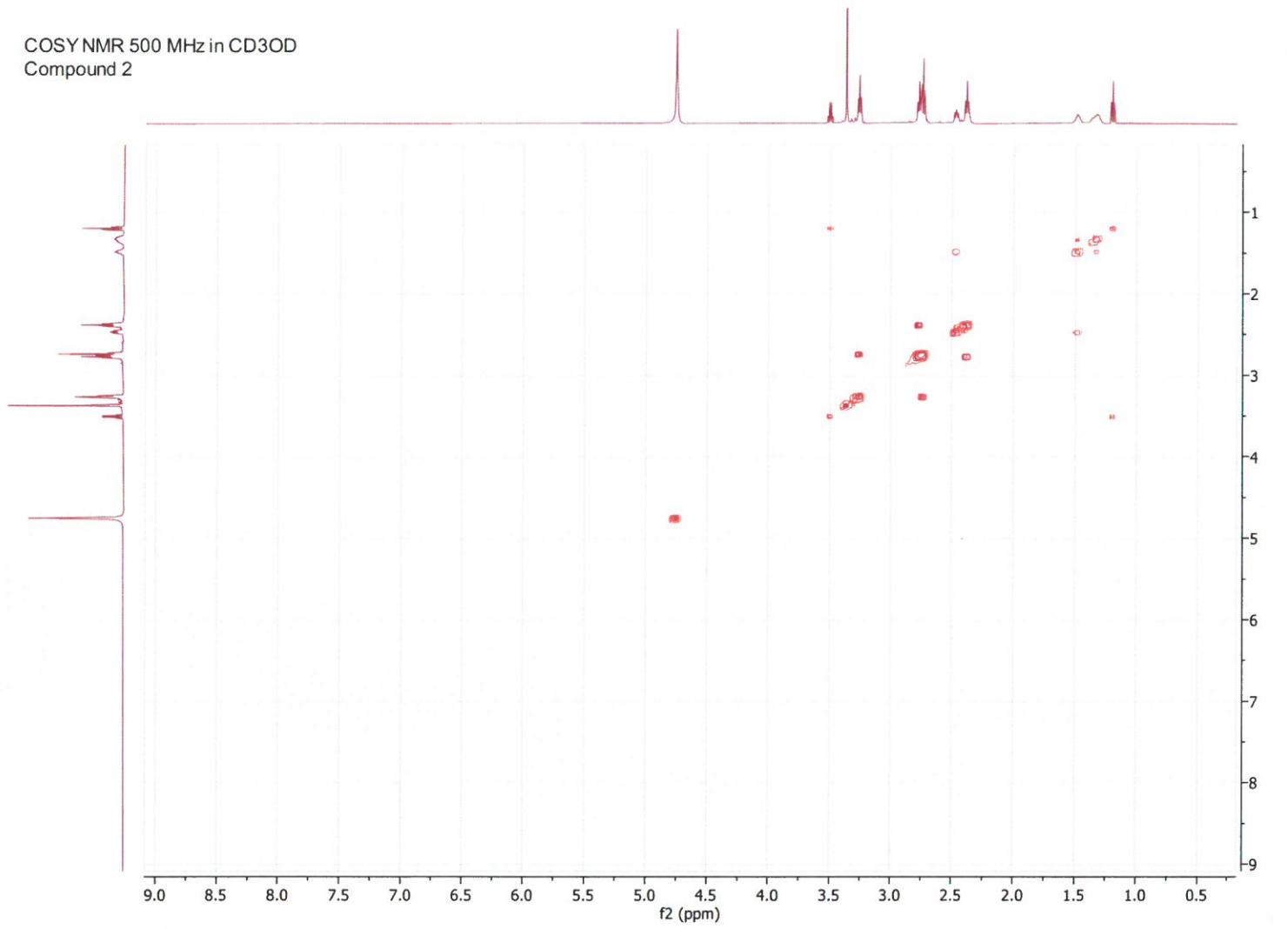
Compound 1

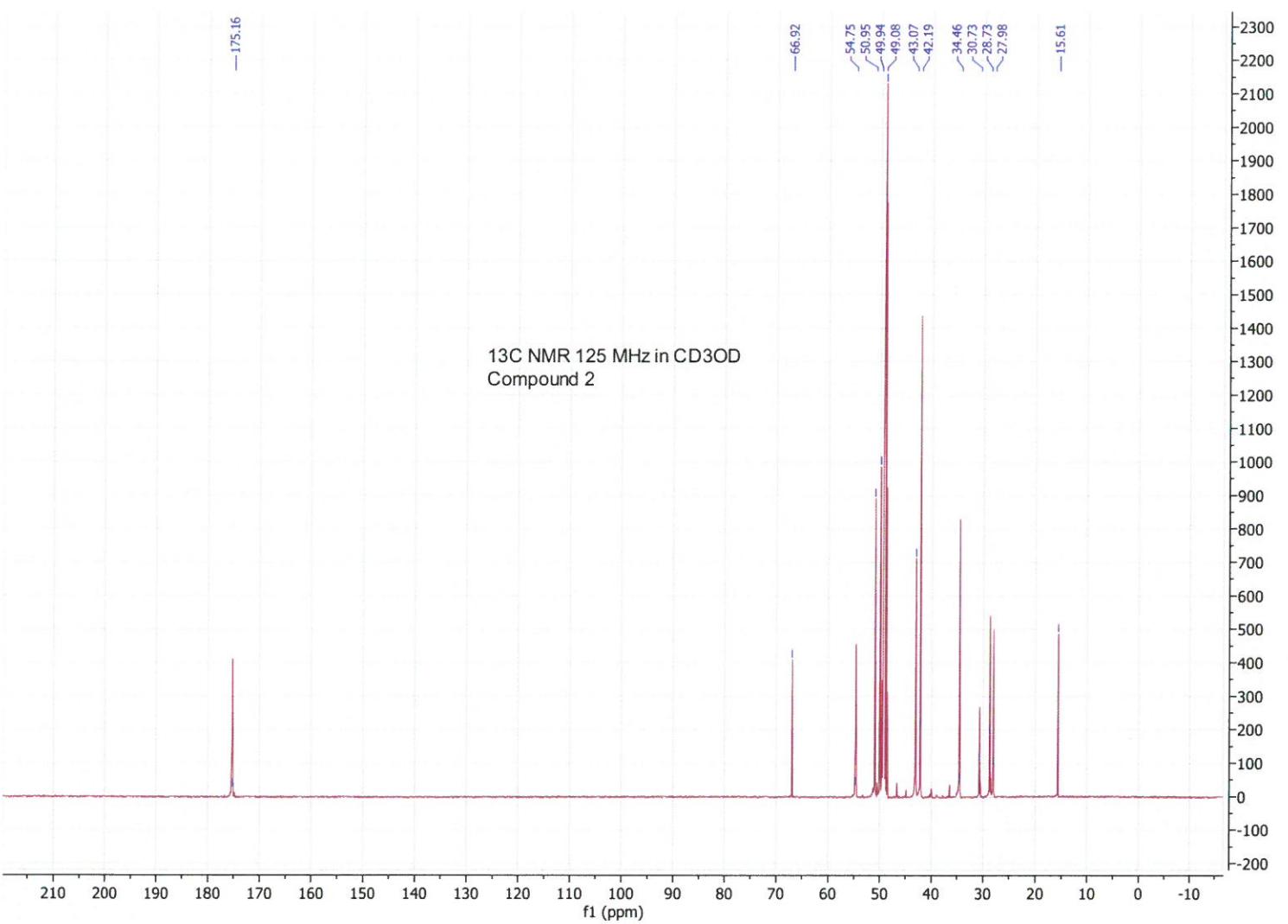
Window Display Report





COSY NMR 500 MHz in CD3OD
Compound 2

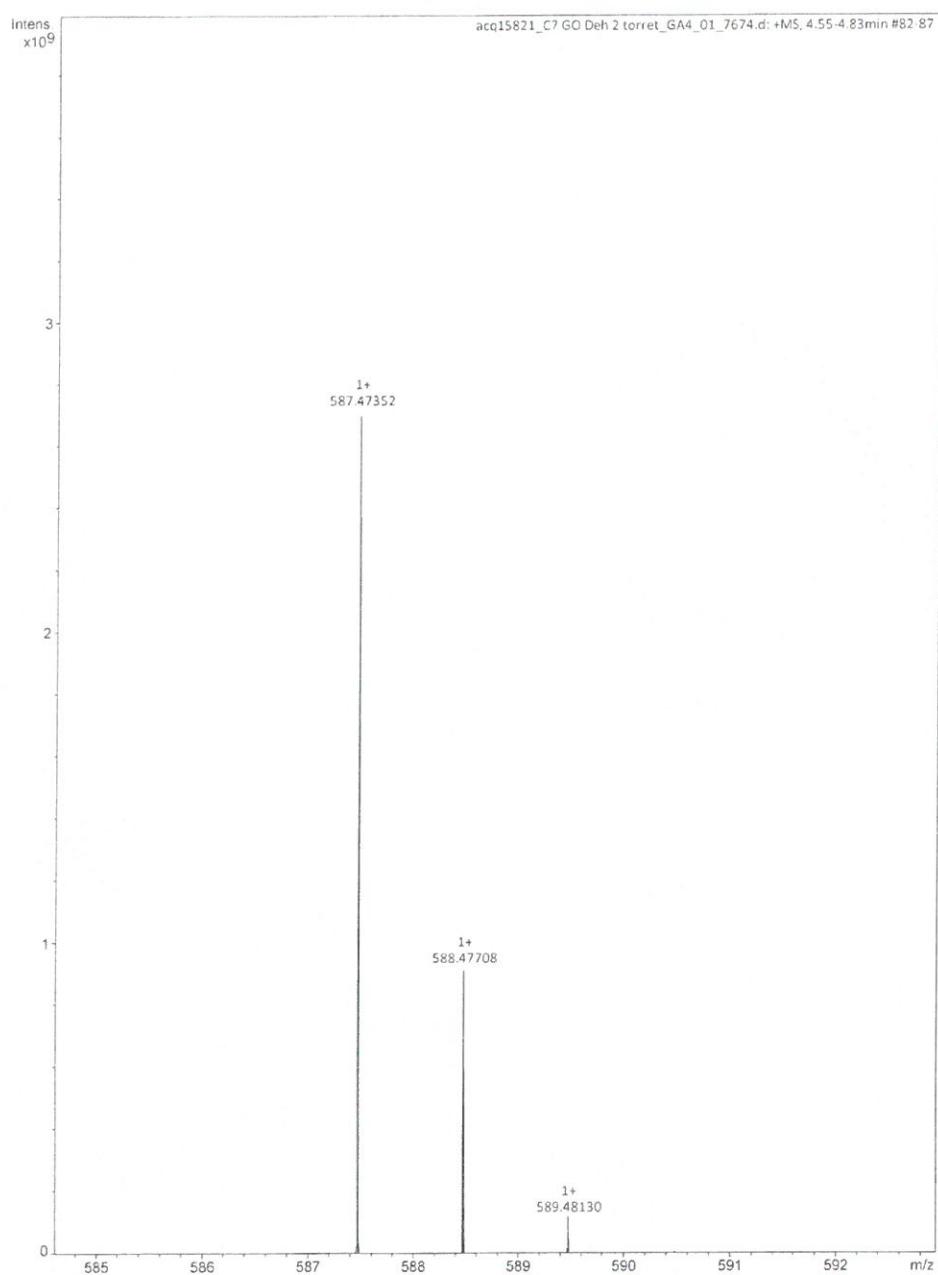




8

Compound 2

Window Display Report

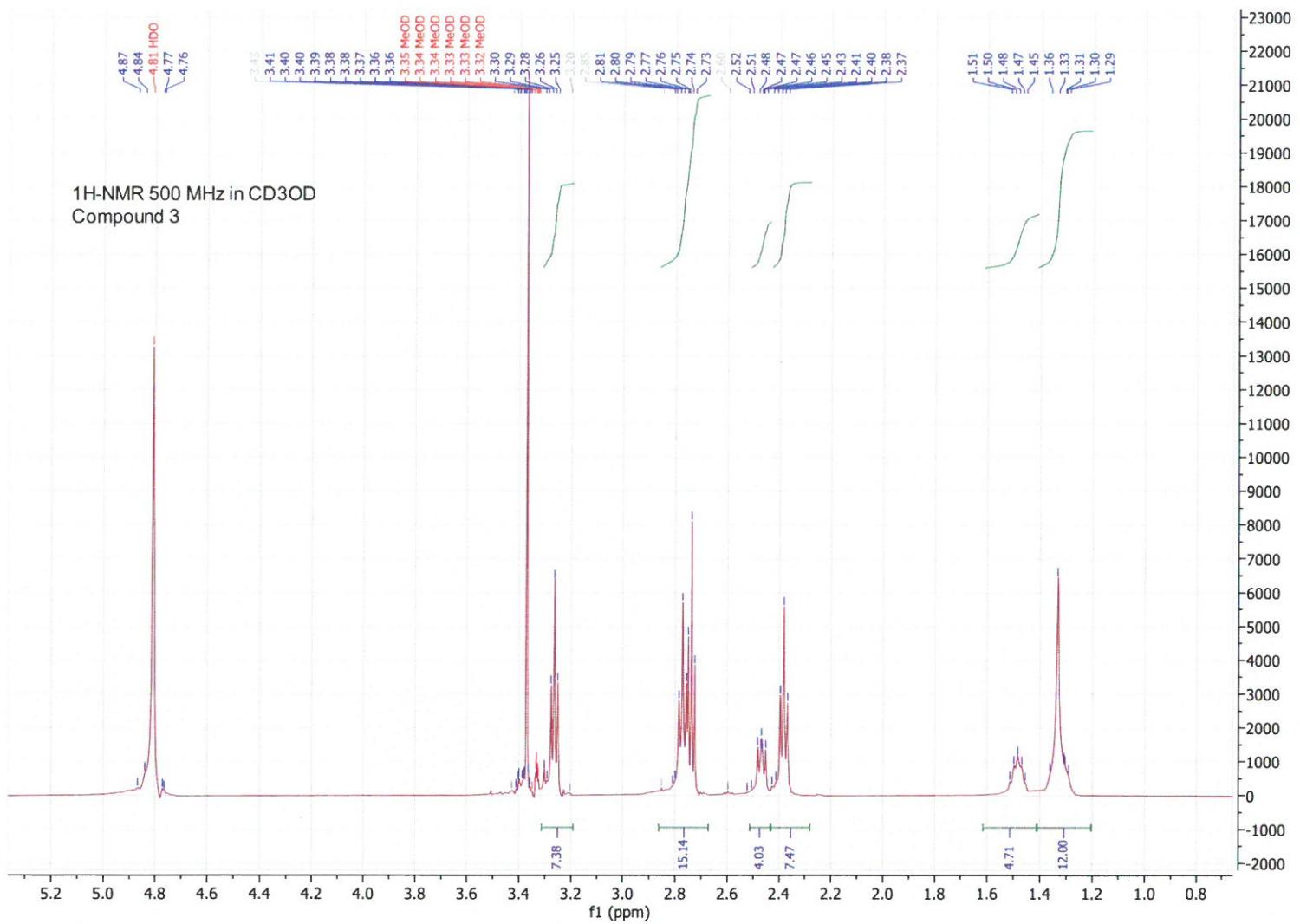


Bruker Compass DataAnalysis 5.0

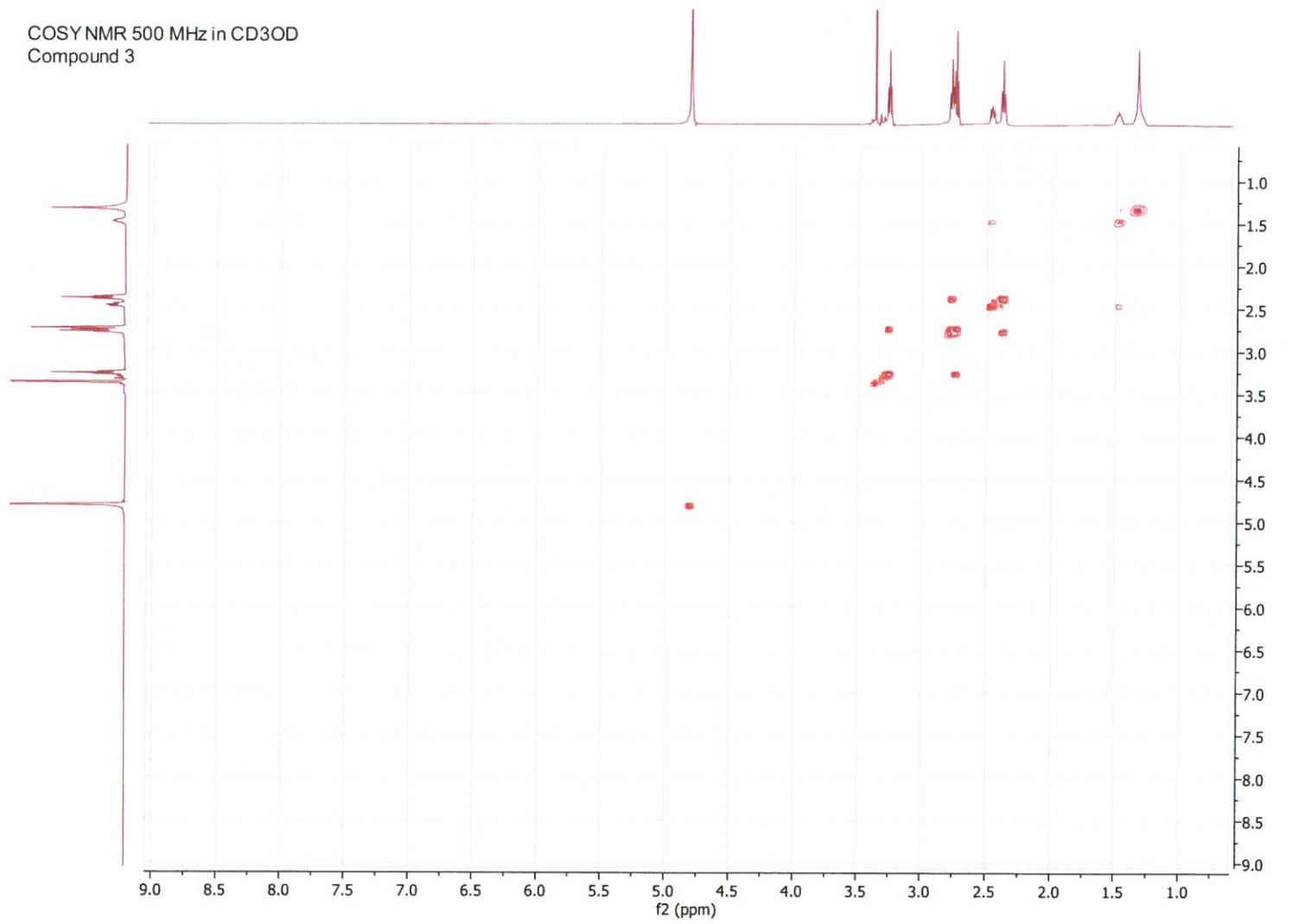
printed: 8/18/2020 10:12:13 AM

by: demo

Page 1 of 1

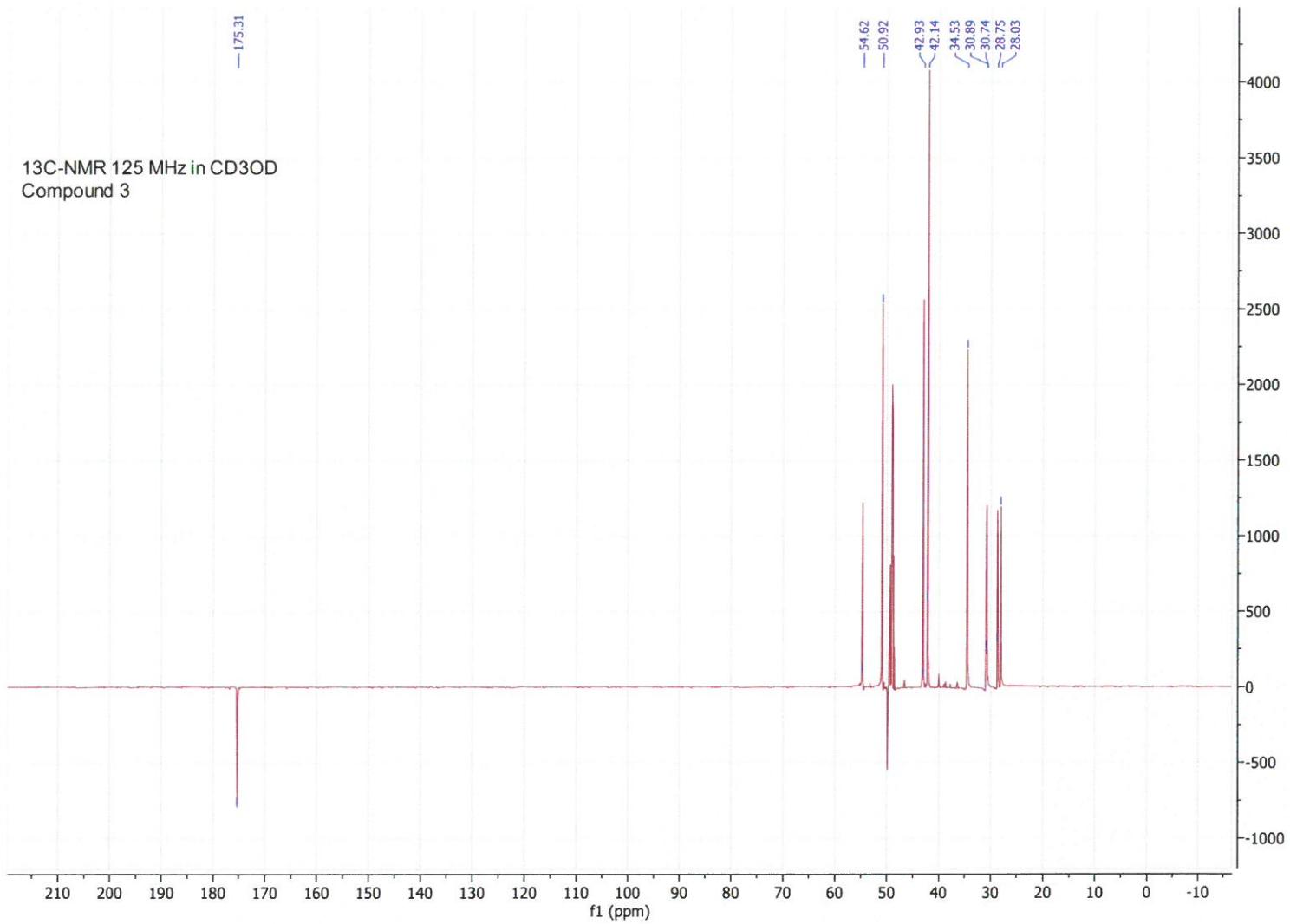


COSY NMR 500 MHz in CD₃OD
Compound 3



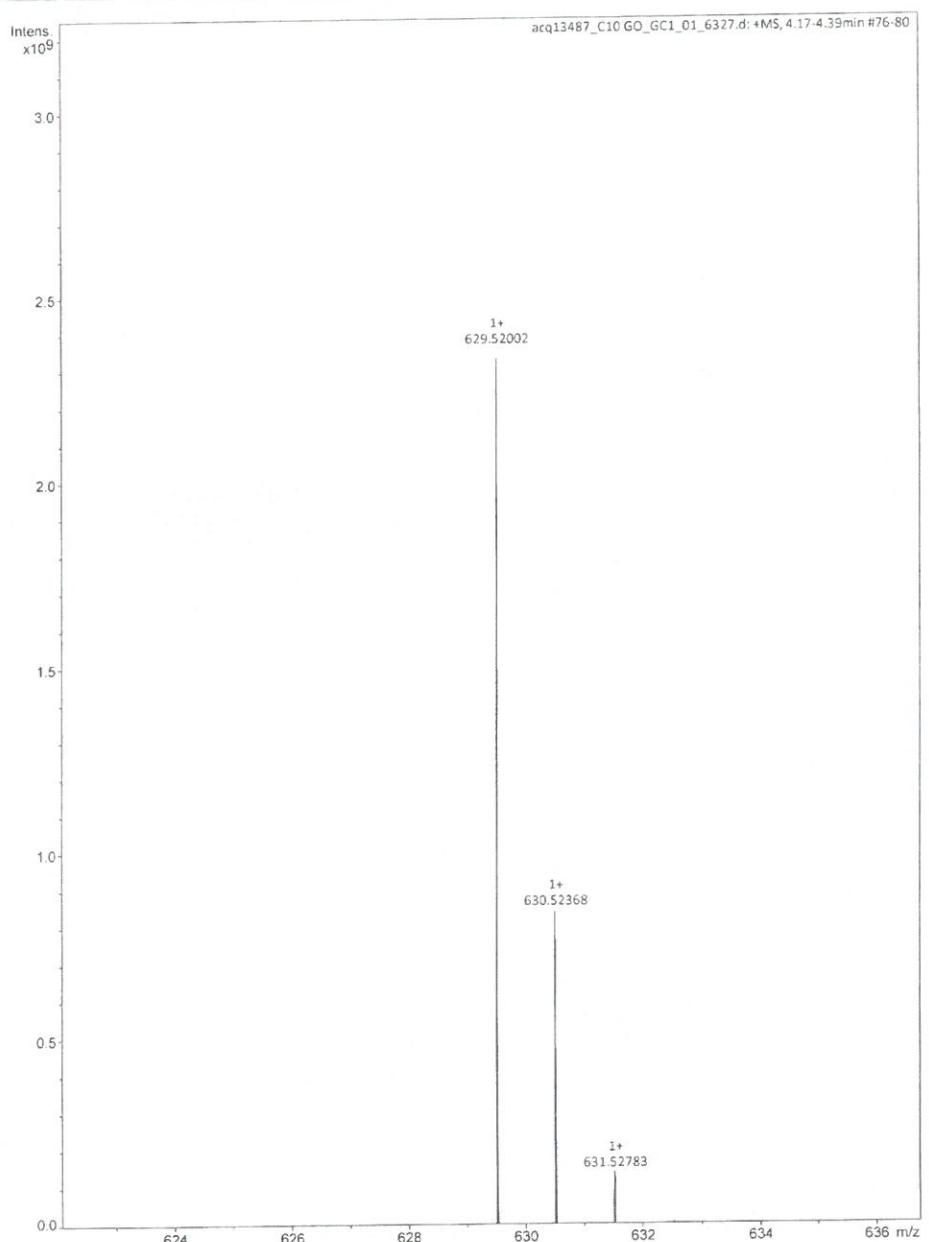
11

13C-NMR 125 MHz in CD3OD
Compound 3

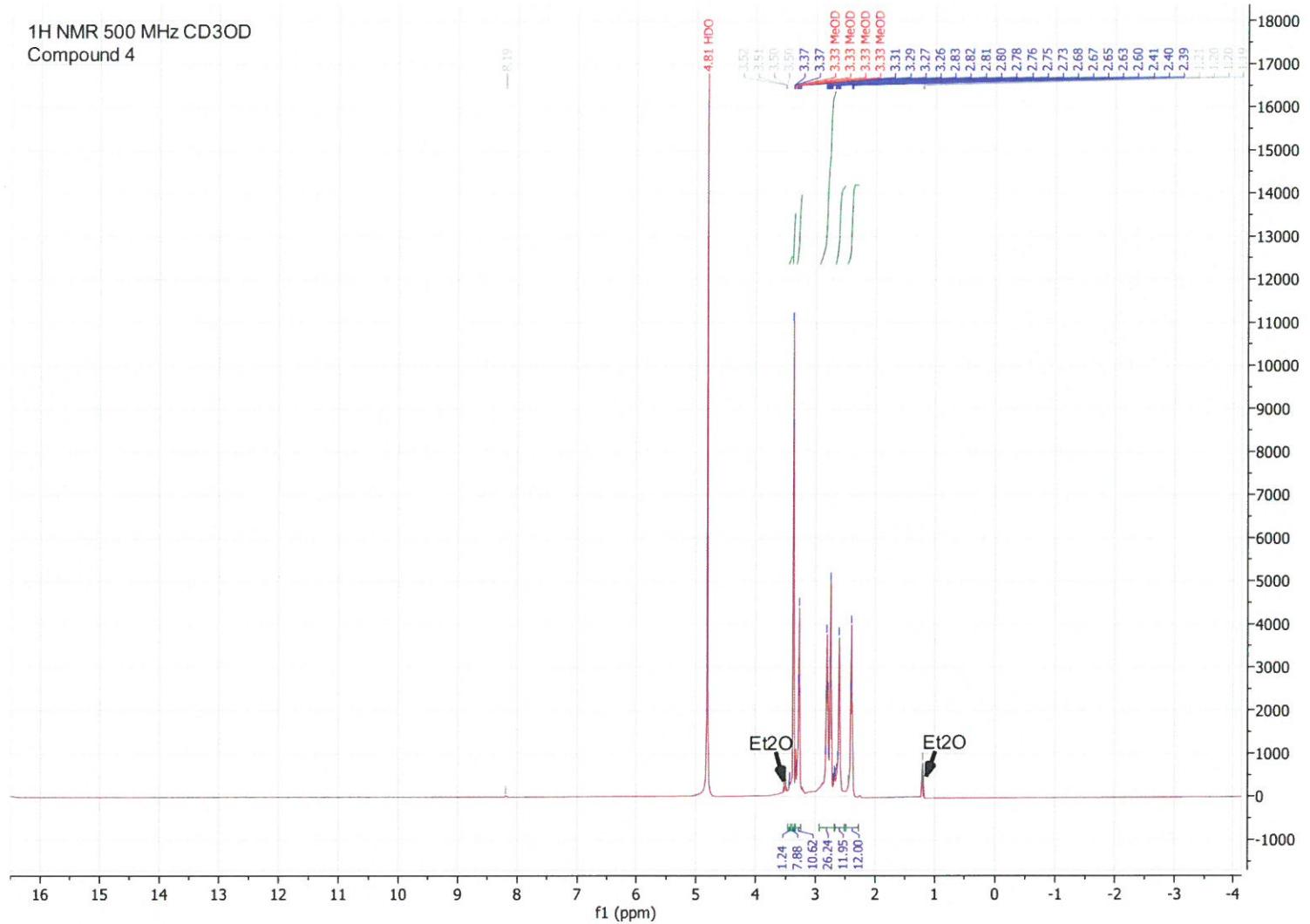


Compound 3

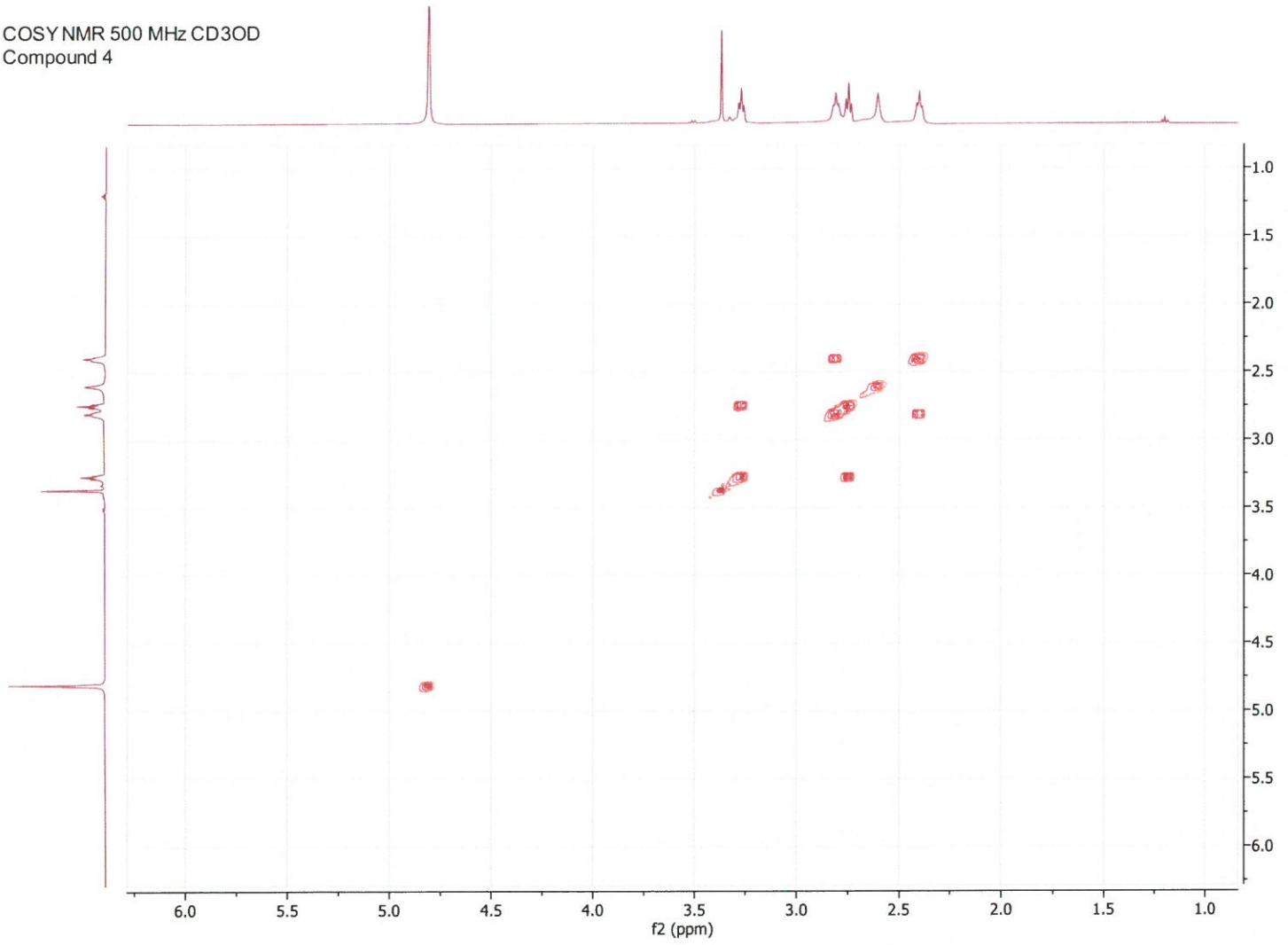
Window Display Report



¹H NMR 500 MHz CD₃OD
Compound 4

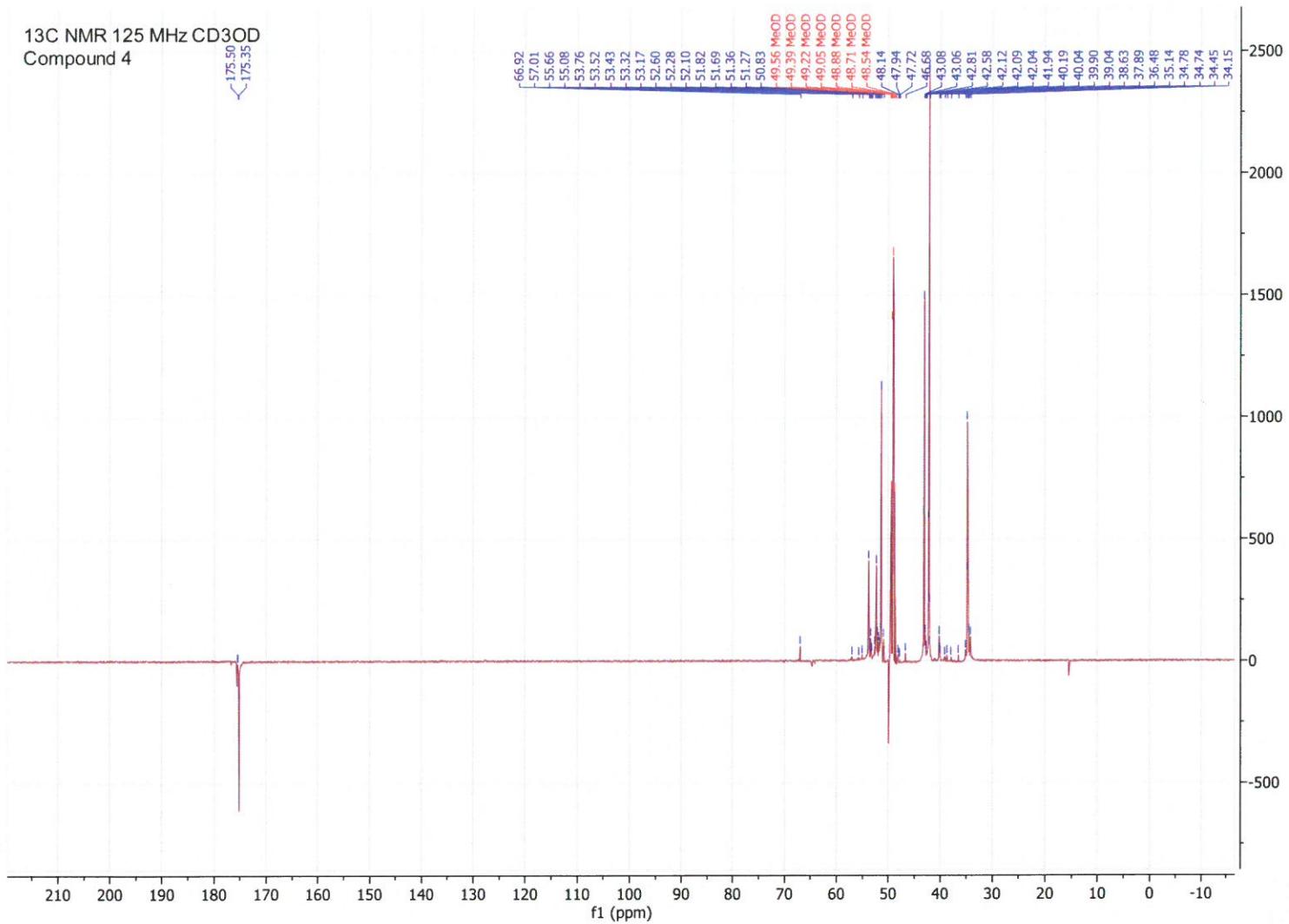


COSY NMR 500 MHz CD₃OD
Compound 4



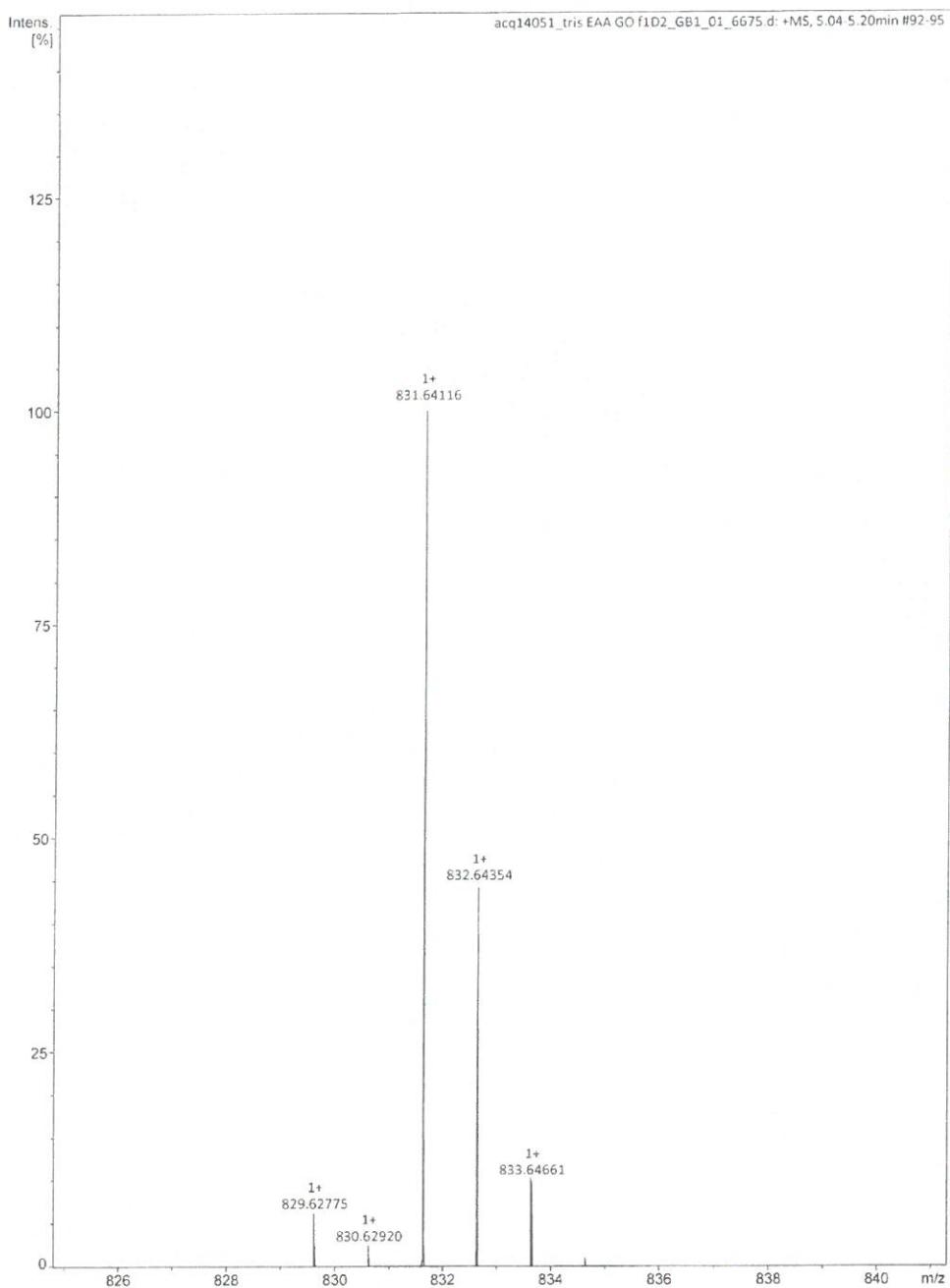
15

¹³C NMR 125 MHz CD₃OD
Compound 4



Compound 4

Window Display Report

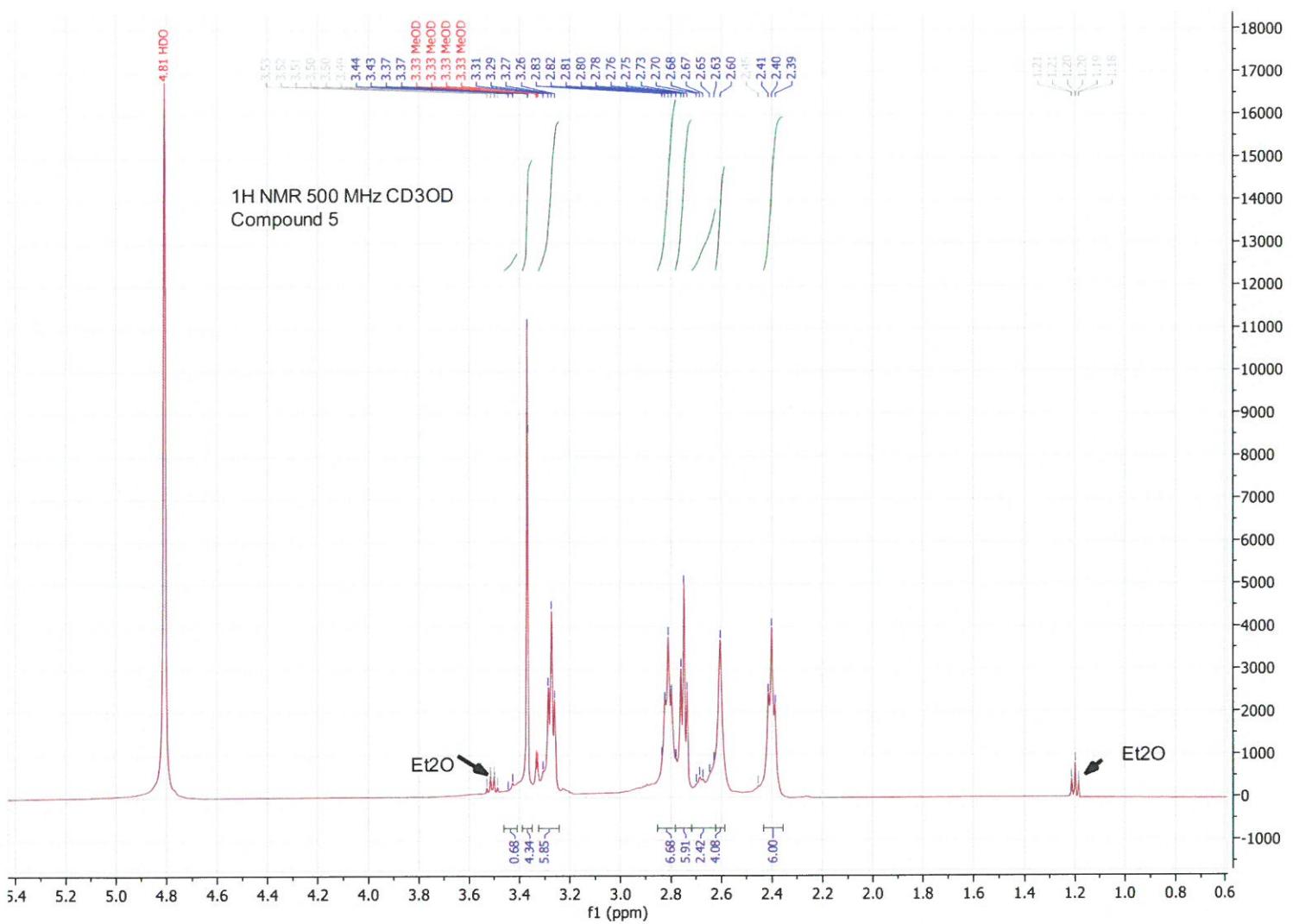


Bruker Compass DataAnalysis 5.0

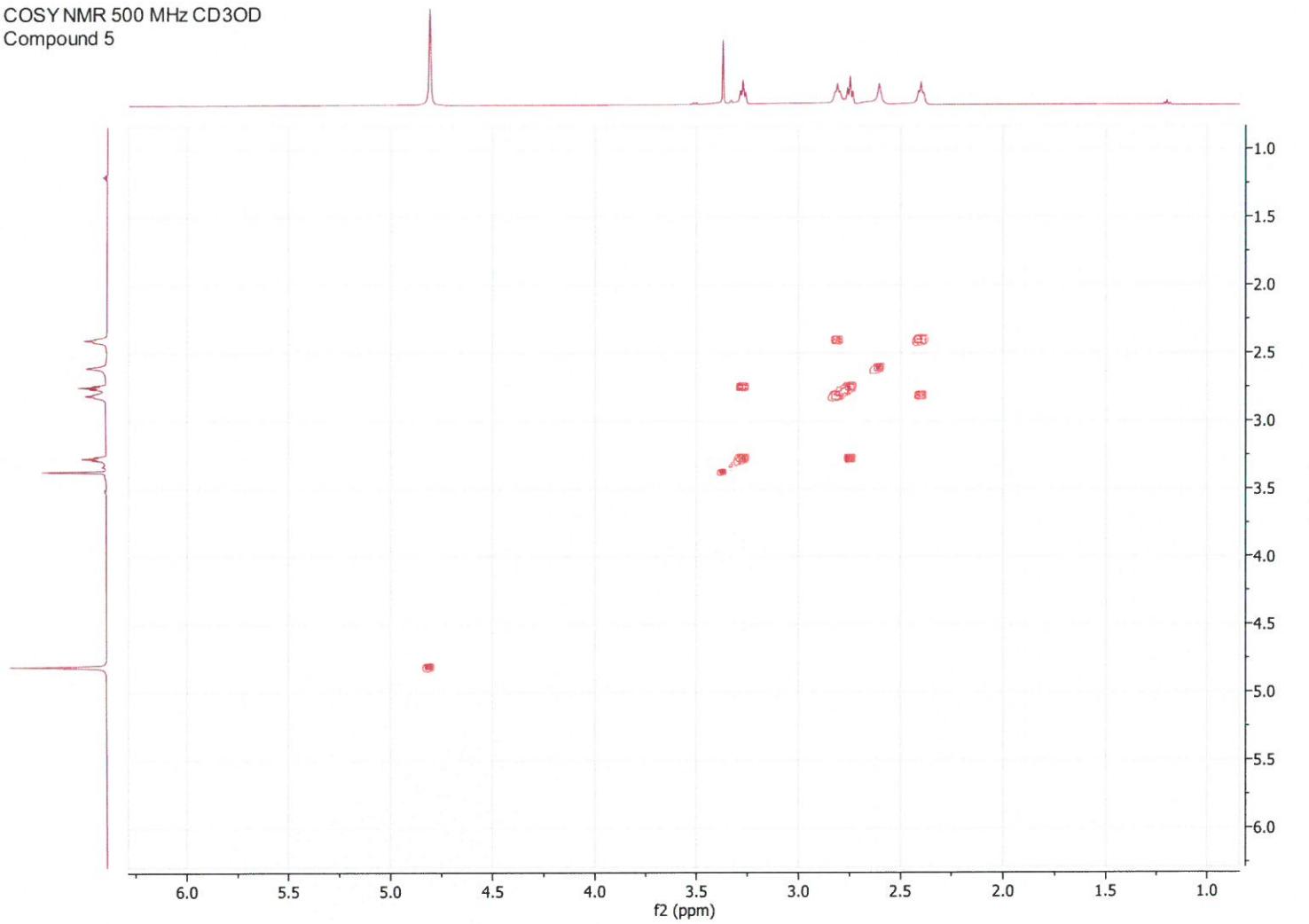
printed: 12/12/2019 12:12:24 PM

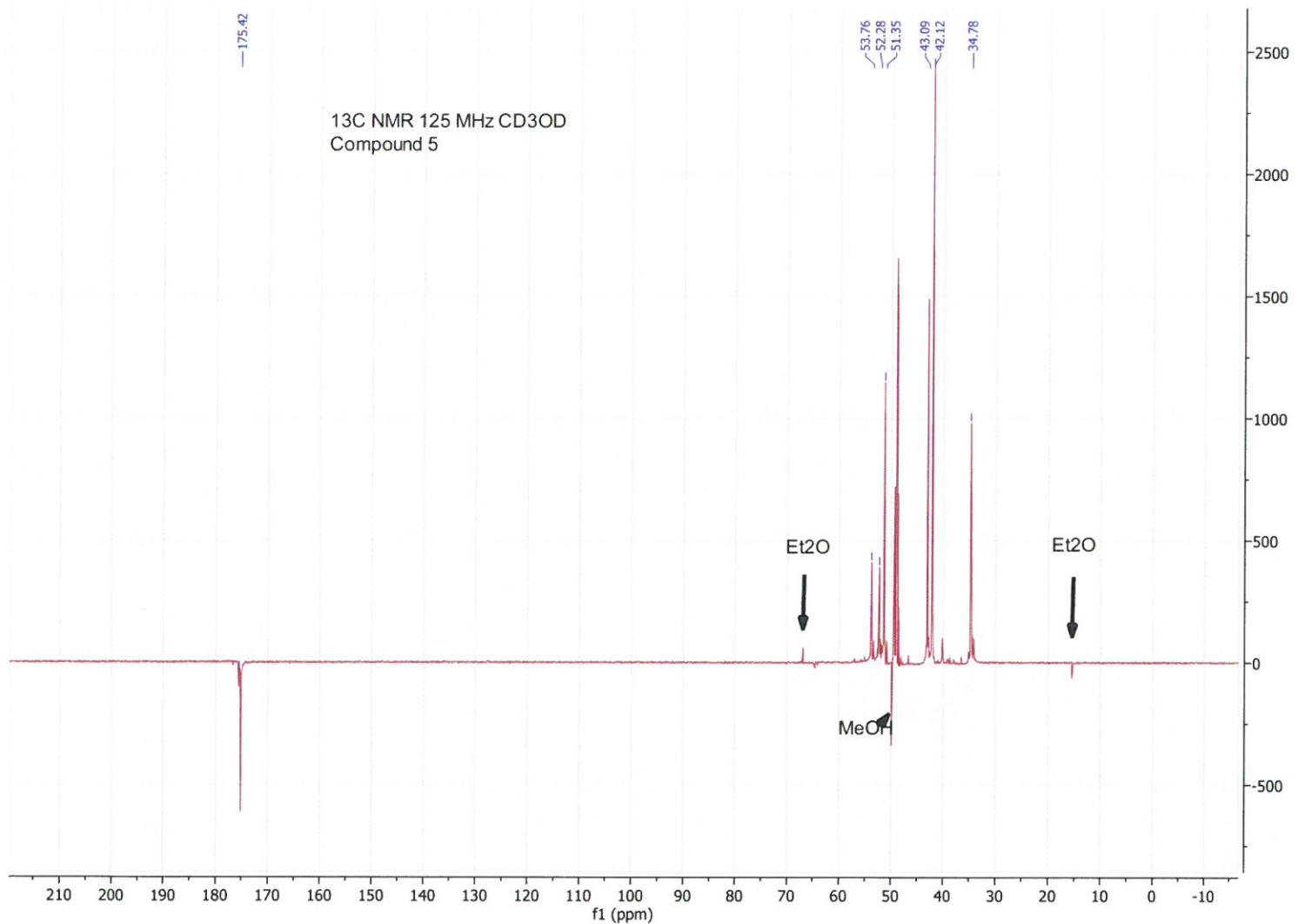
by: demo

Page 1 of 1

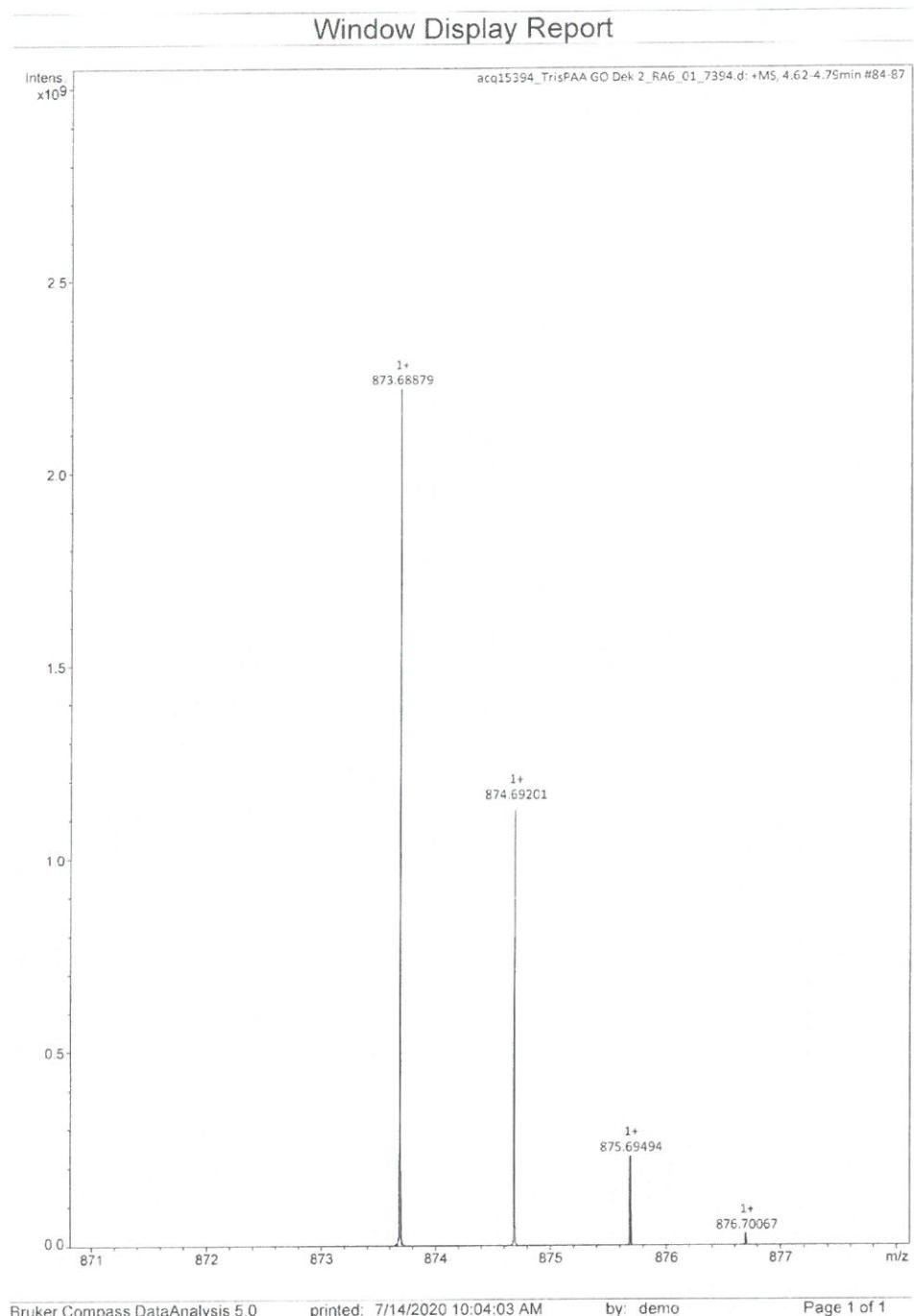


COSY NMR 500 MHz CD₃OD
Compound 5





Compound 5

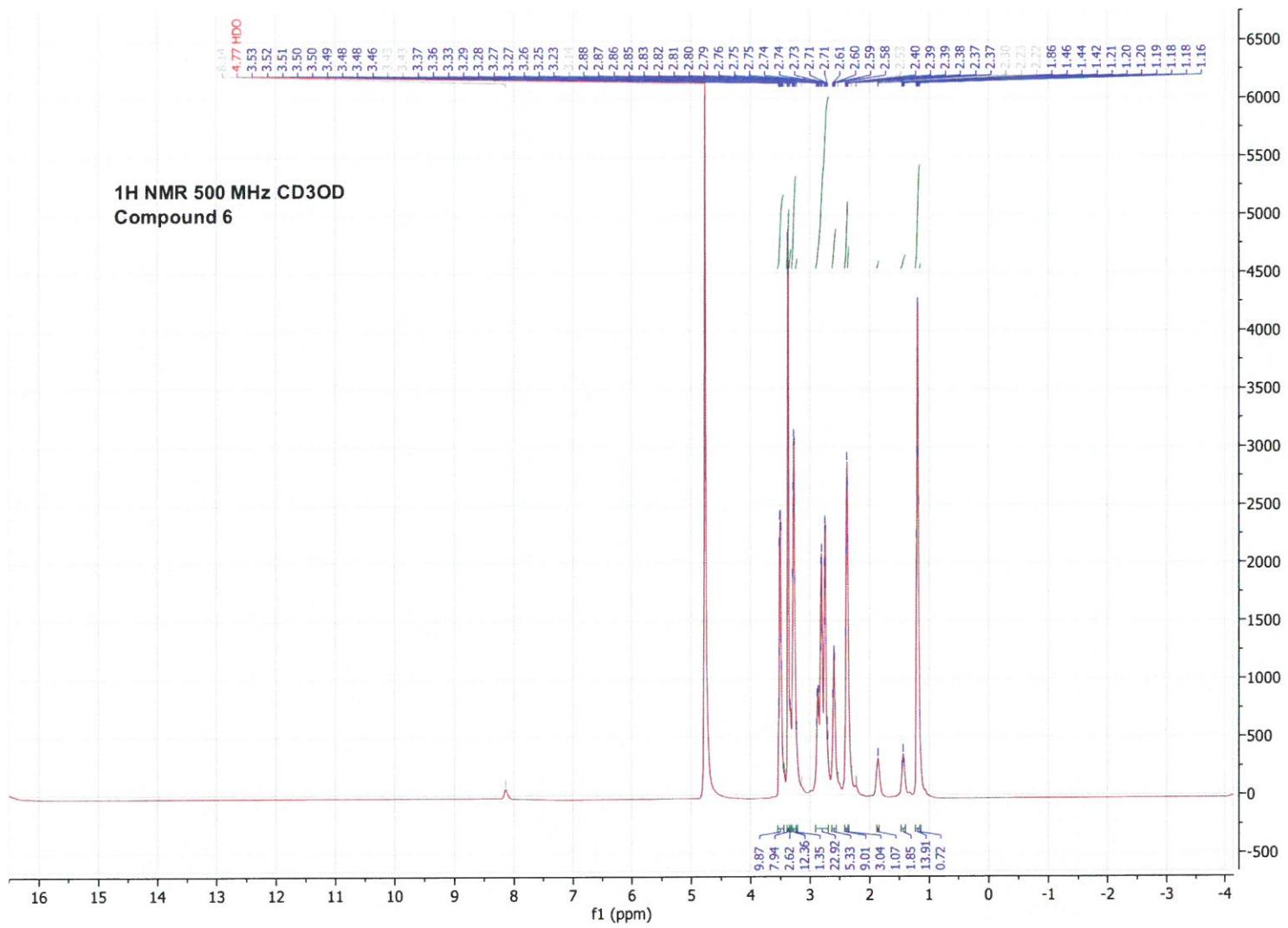


Bruker Compass DataAnalysis 5.0

printed: 7/14/2020 10:04:03 AM

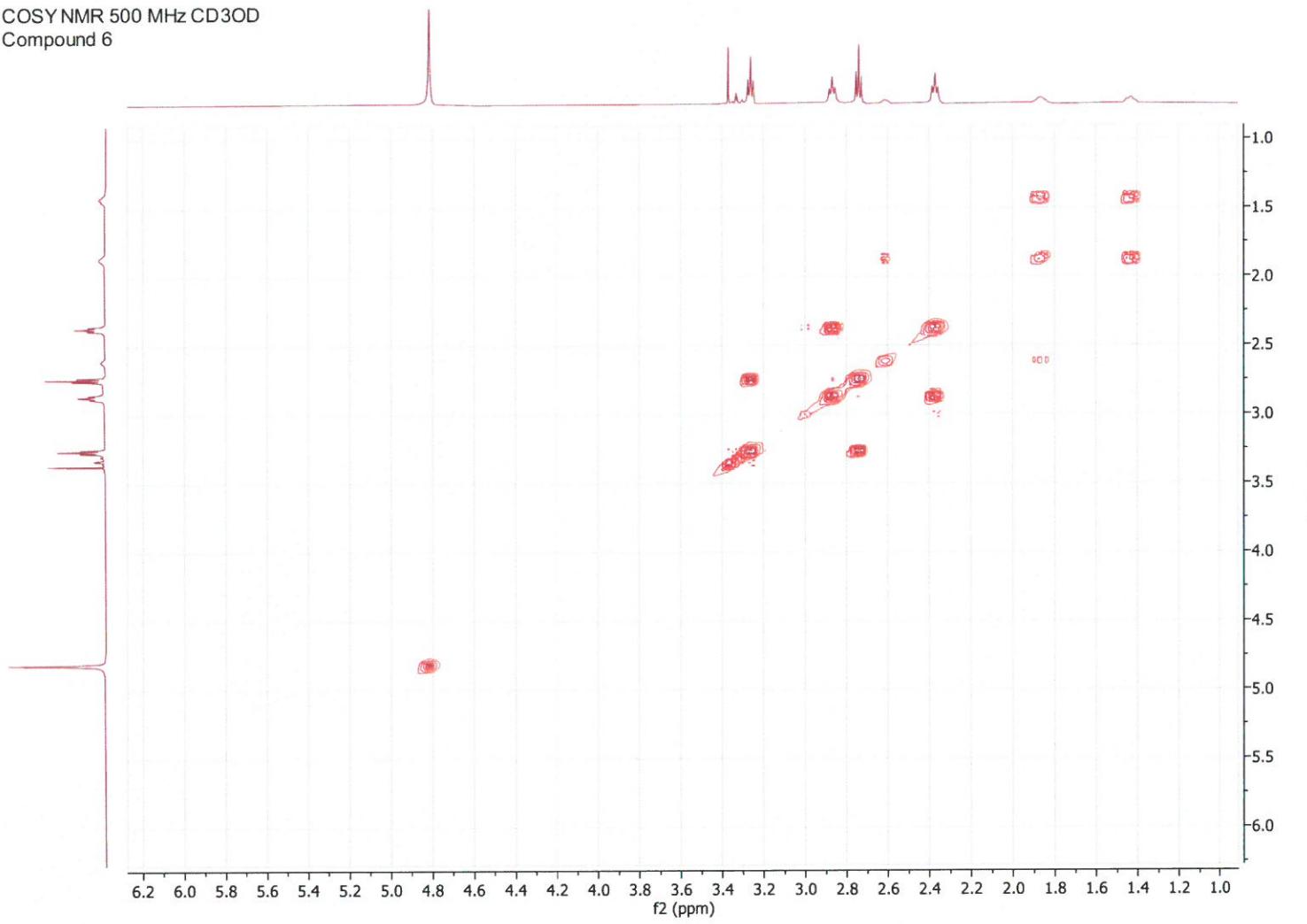
by: demo

Page 1 of 1

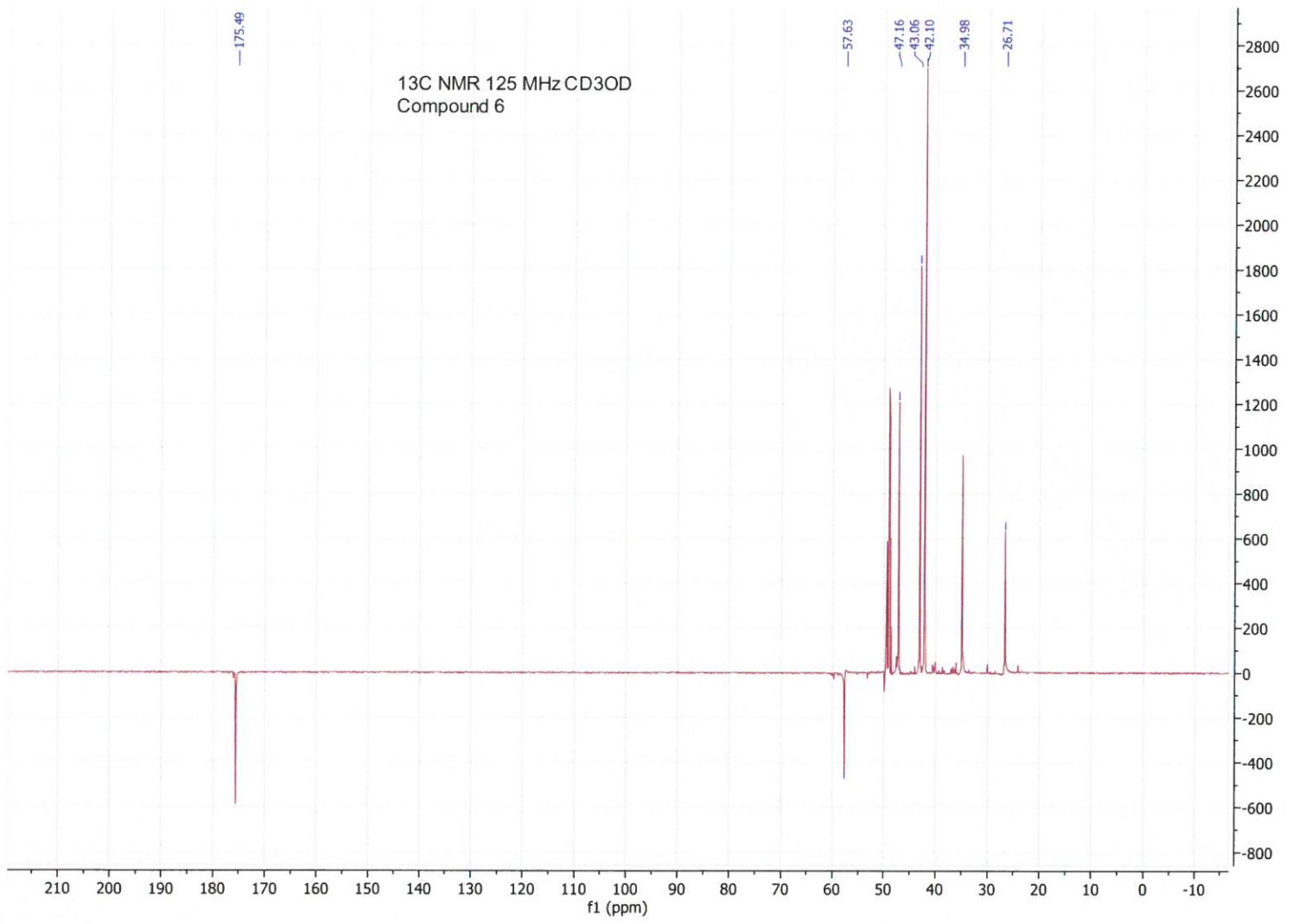


22

COSY NMR 500 MHz CD3OD
Compound 6

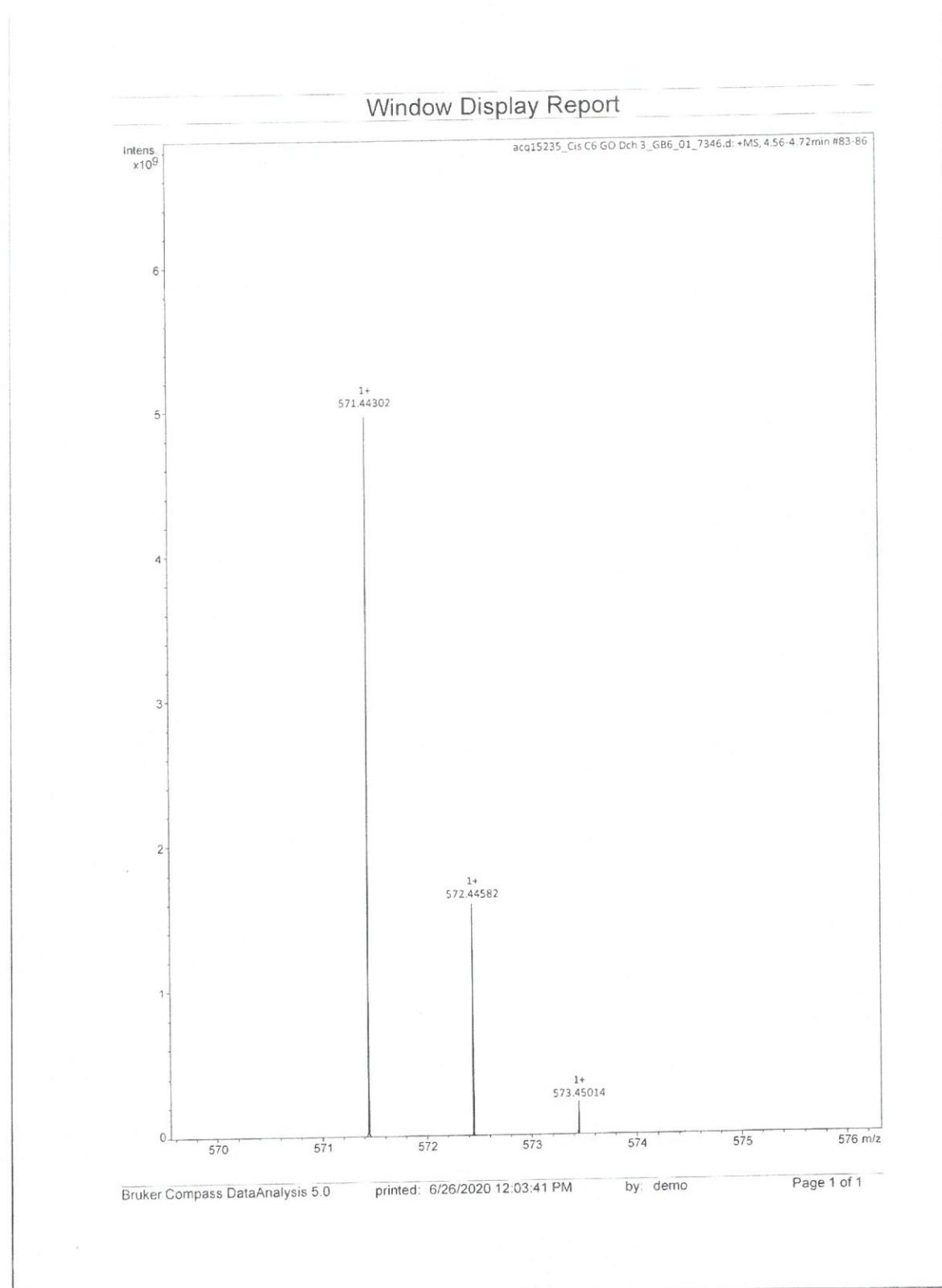


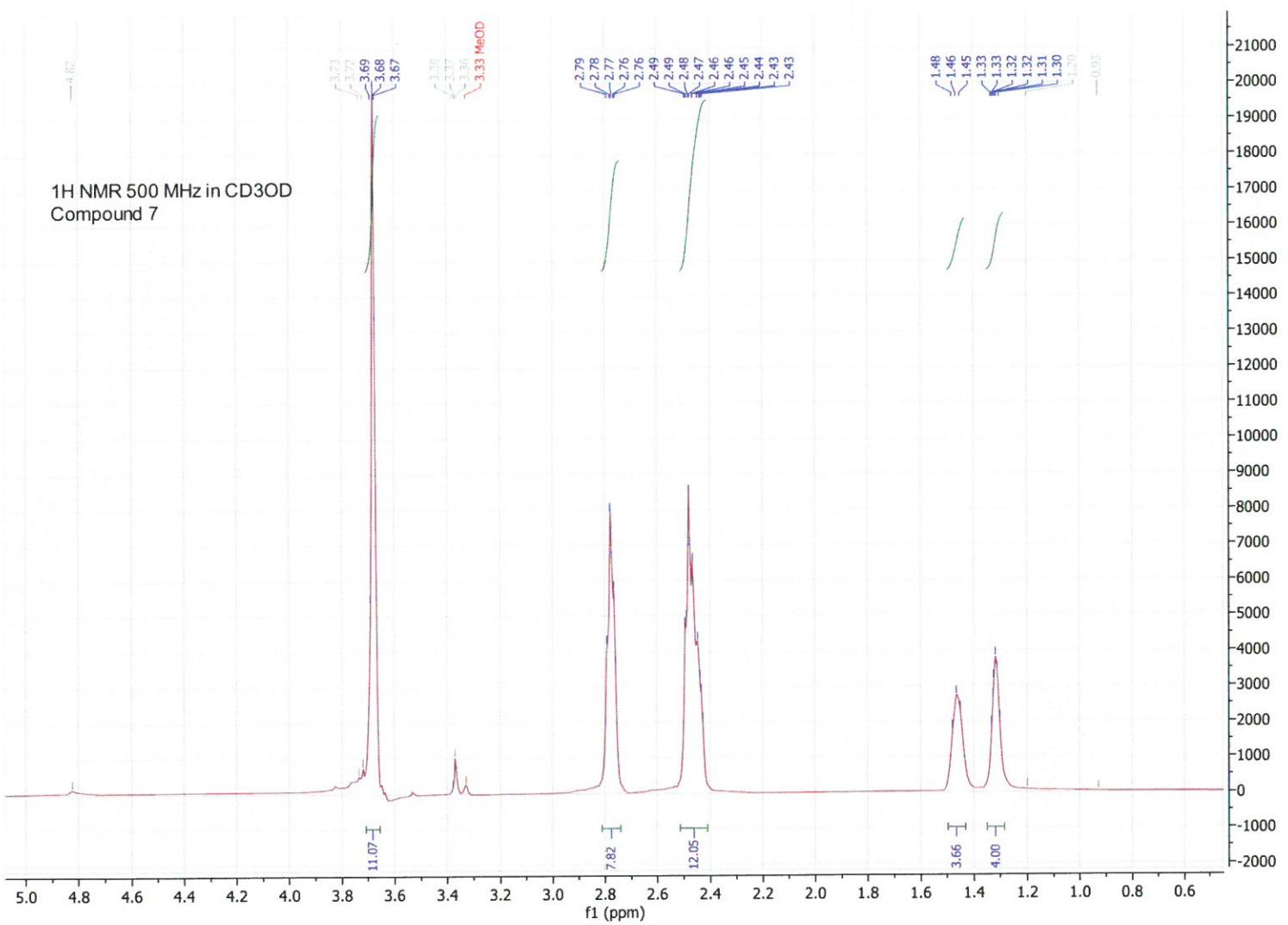
13C NMR 125 MHz CD3OD
Compound 6

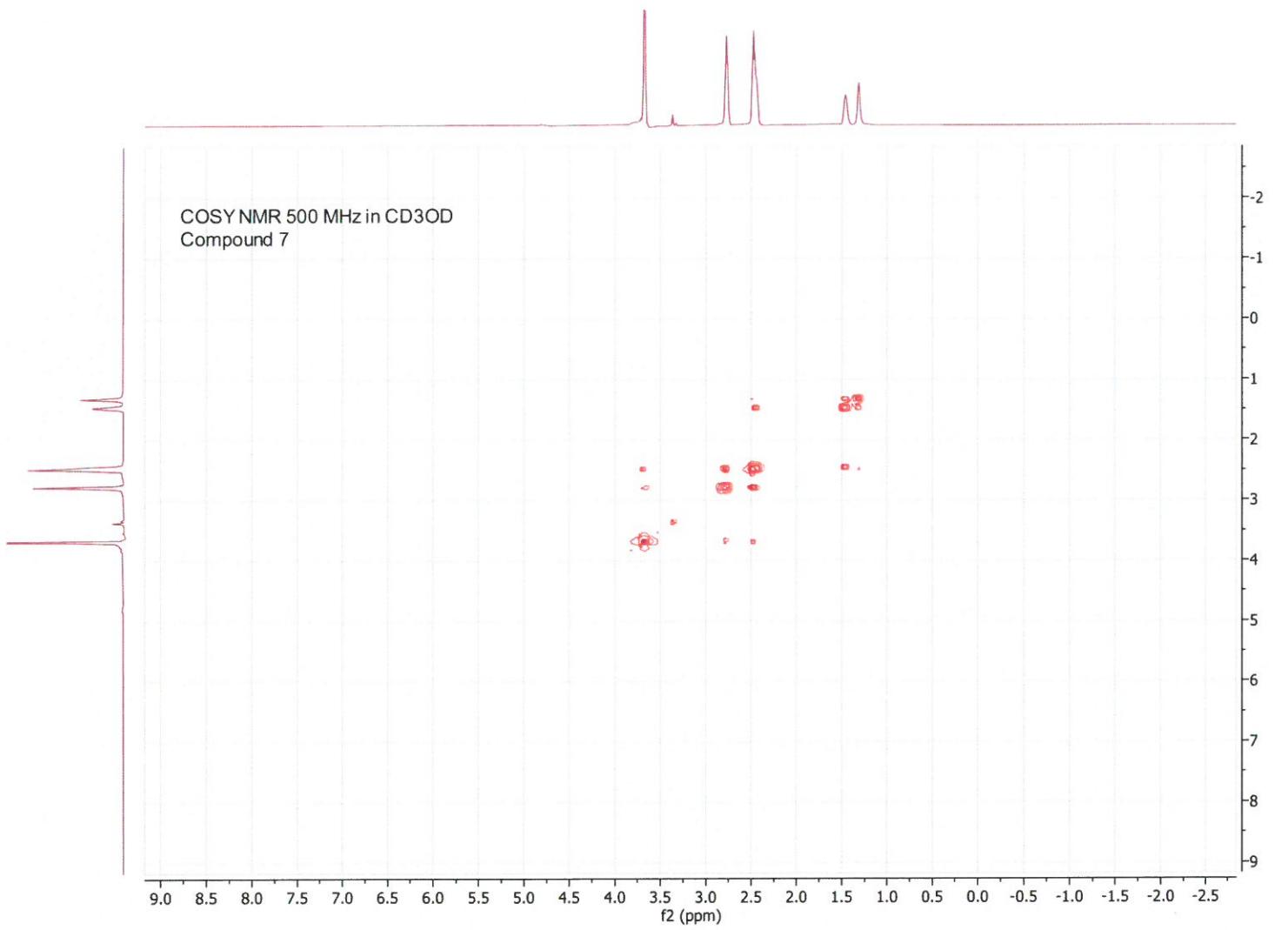


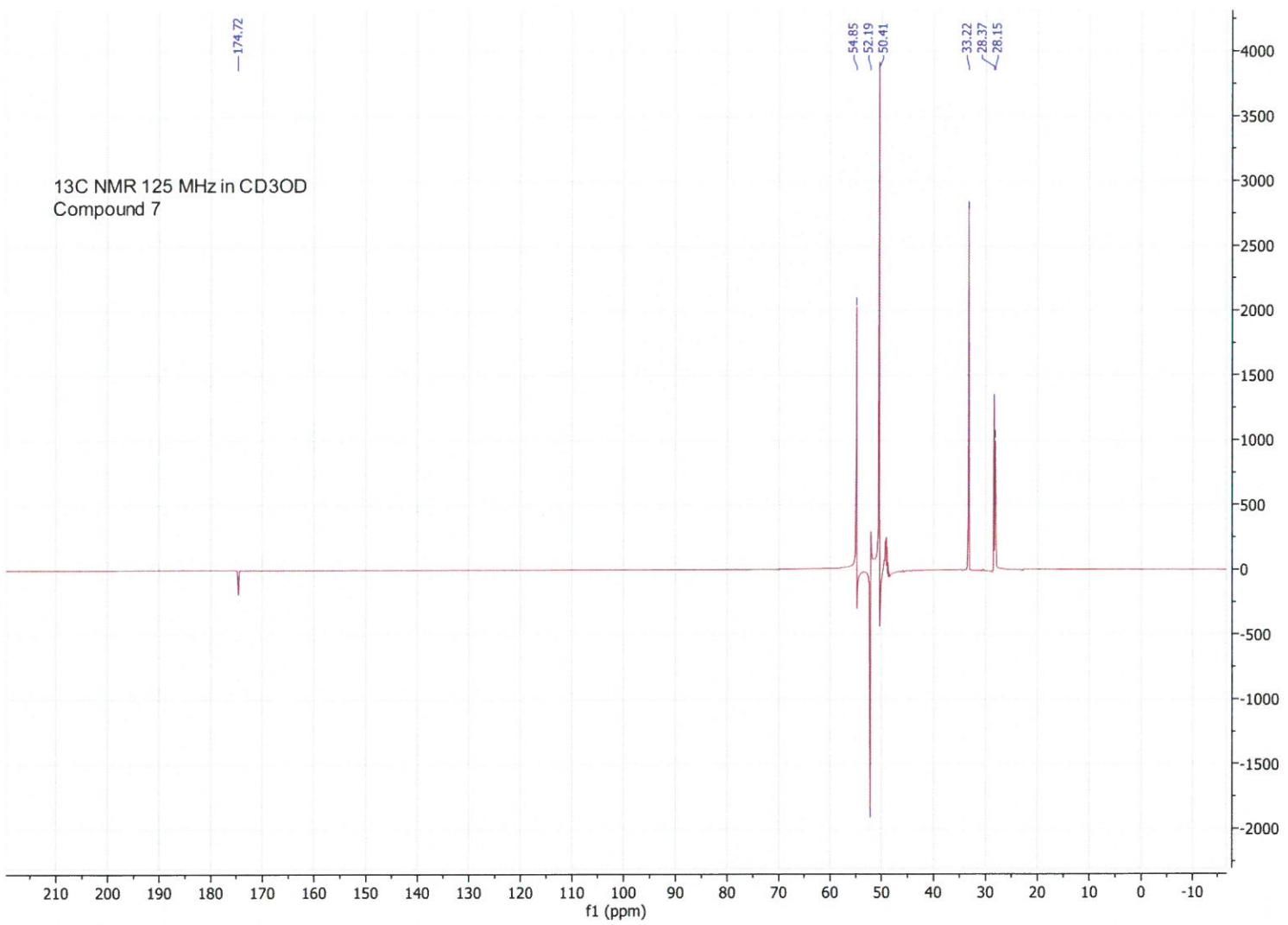
24

Compound 6



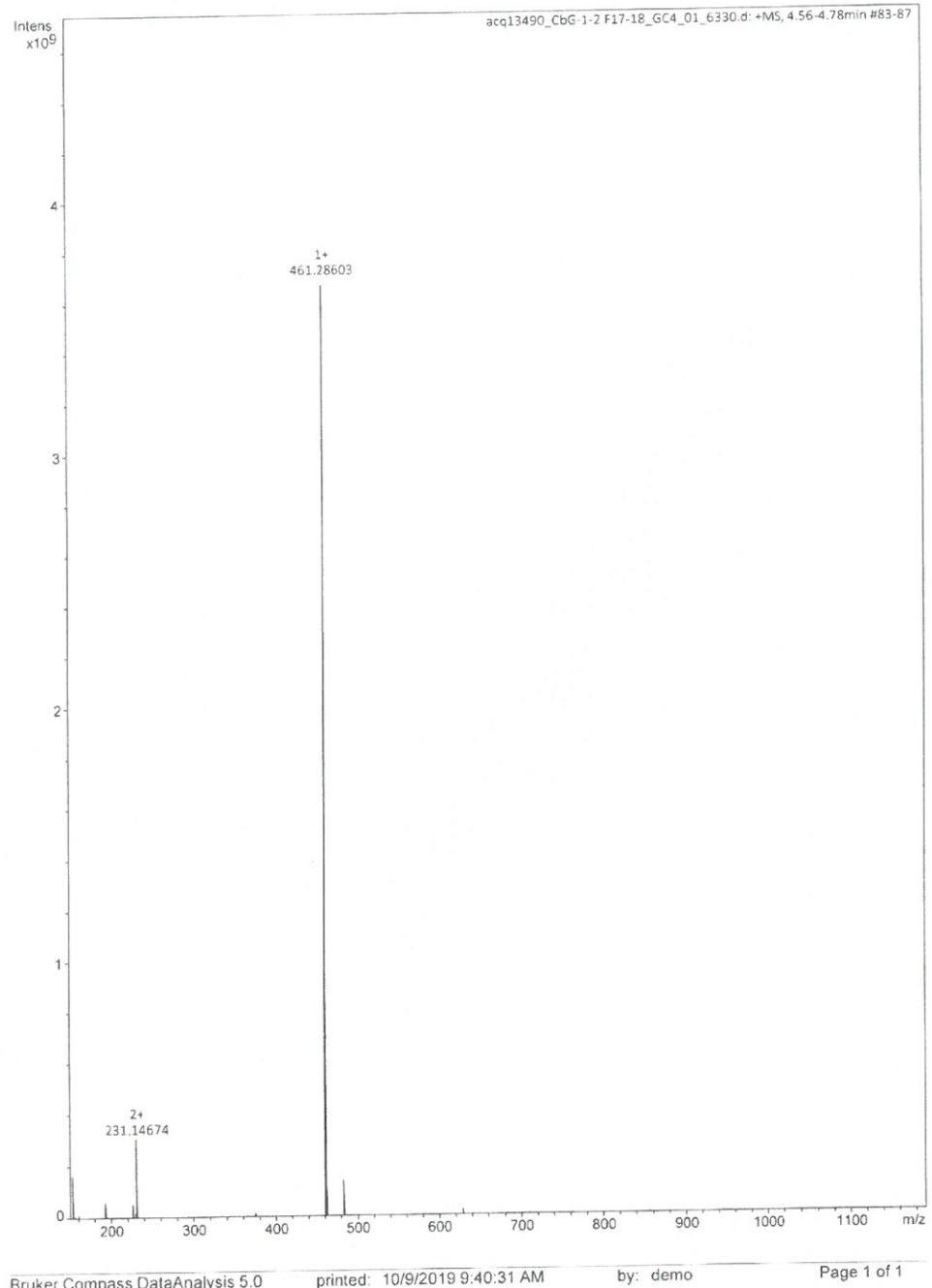


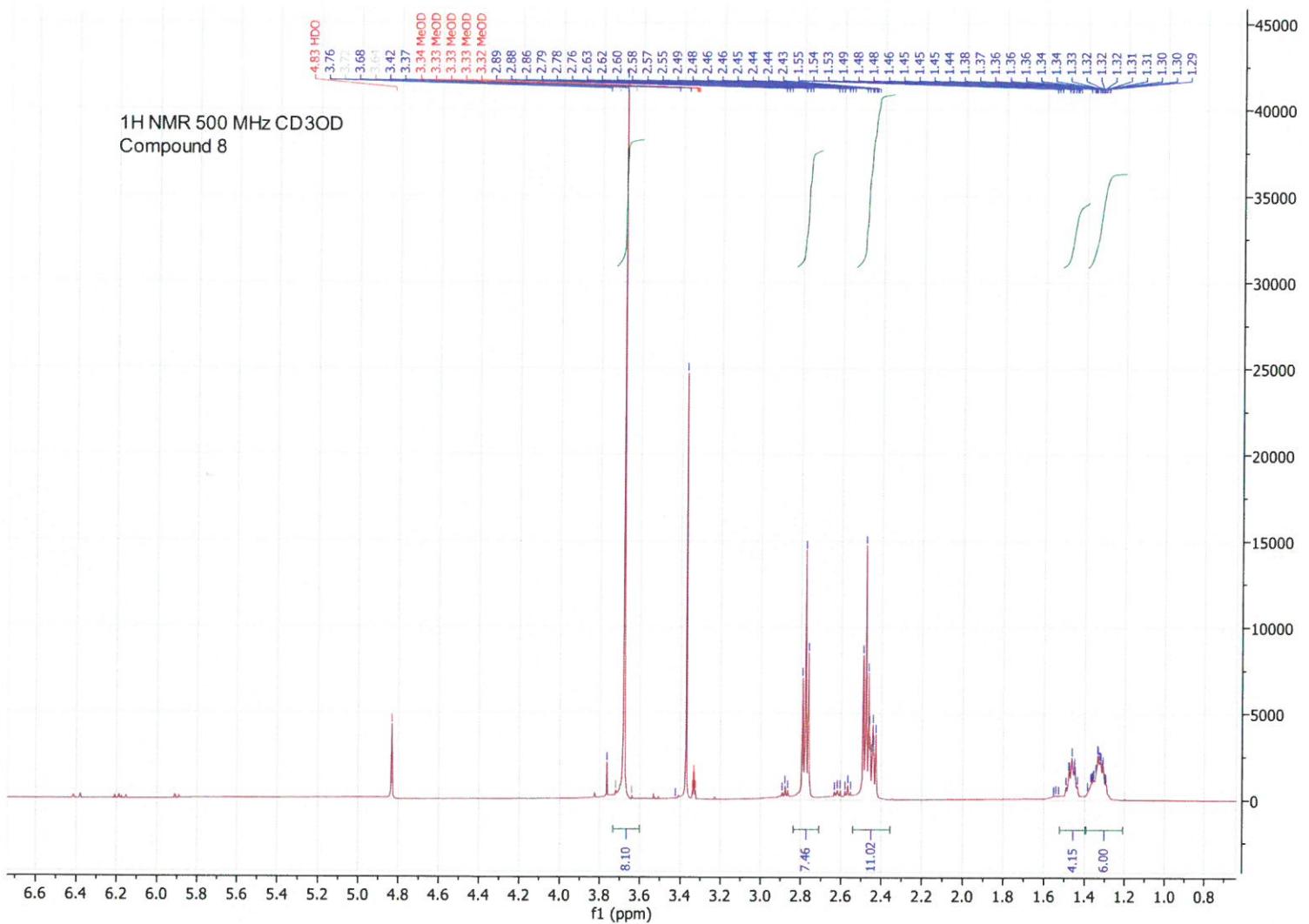


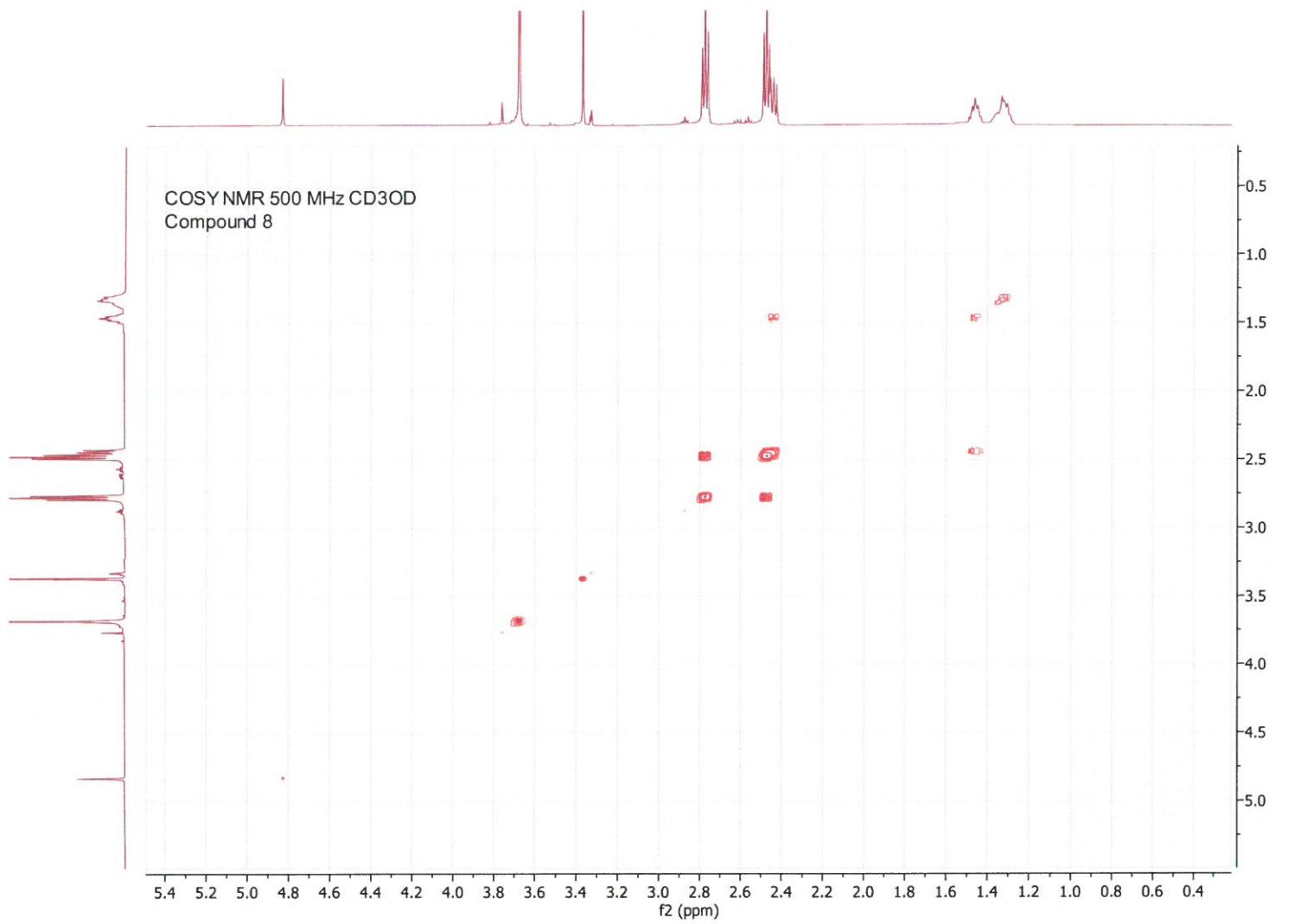


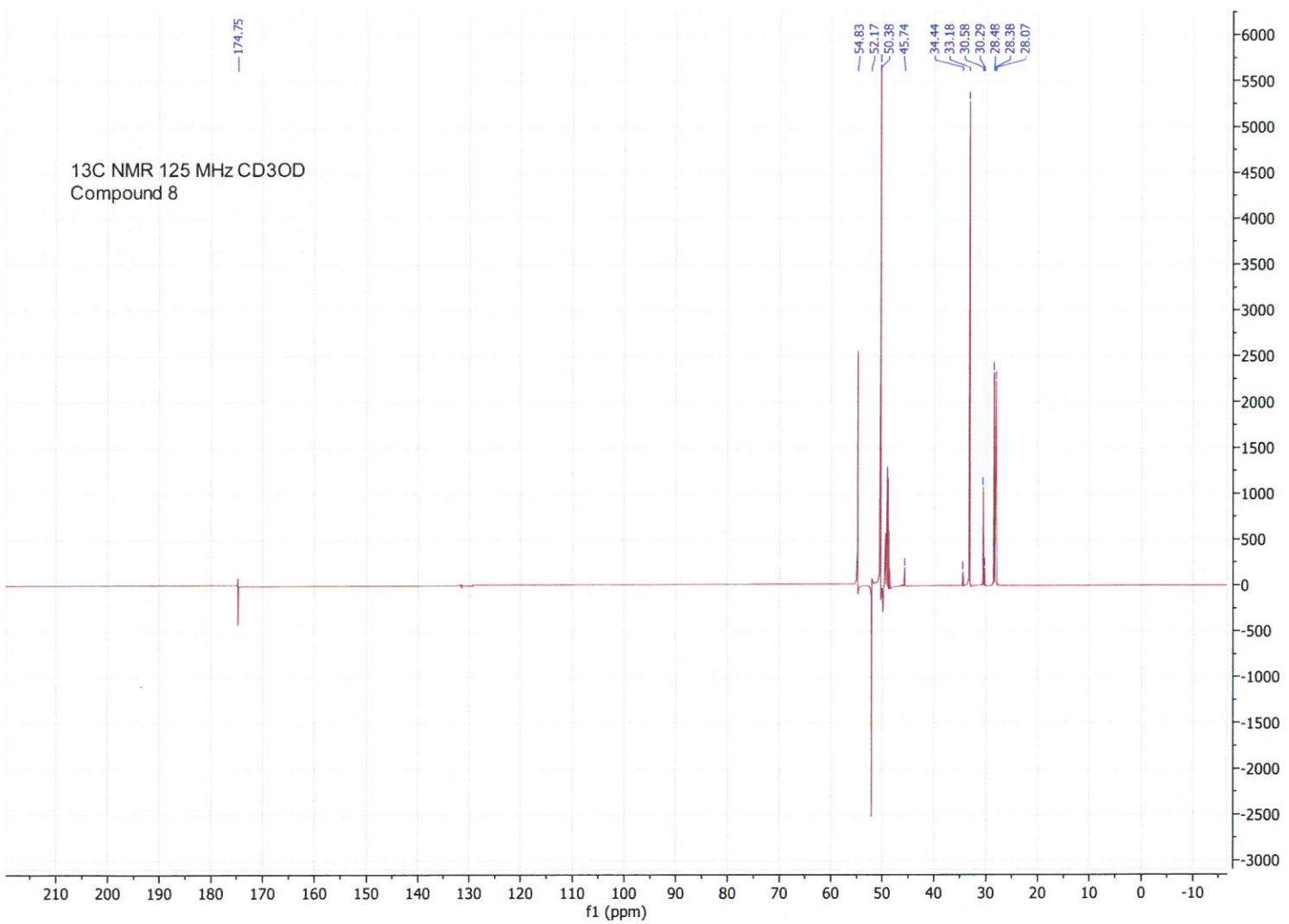
Compound 7

Window Display Report



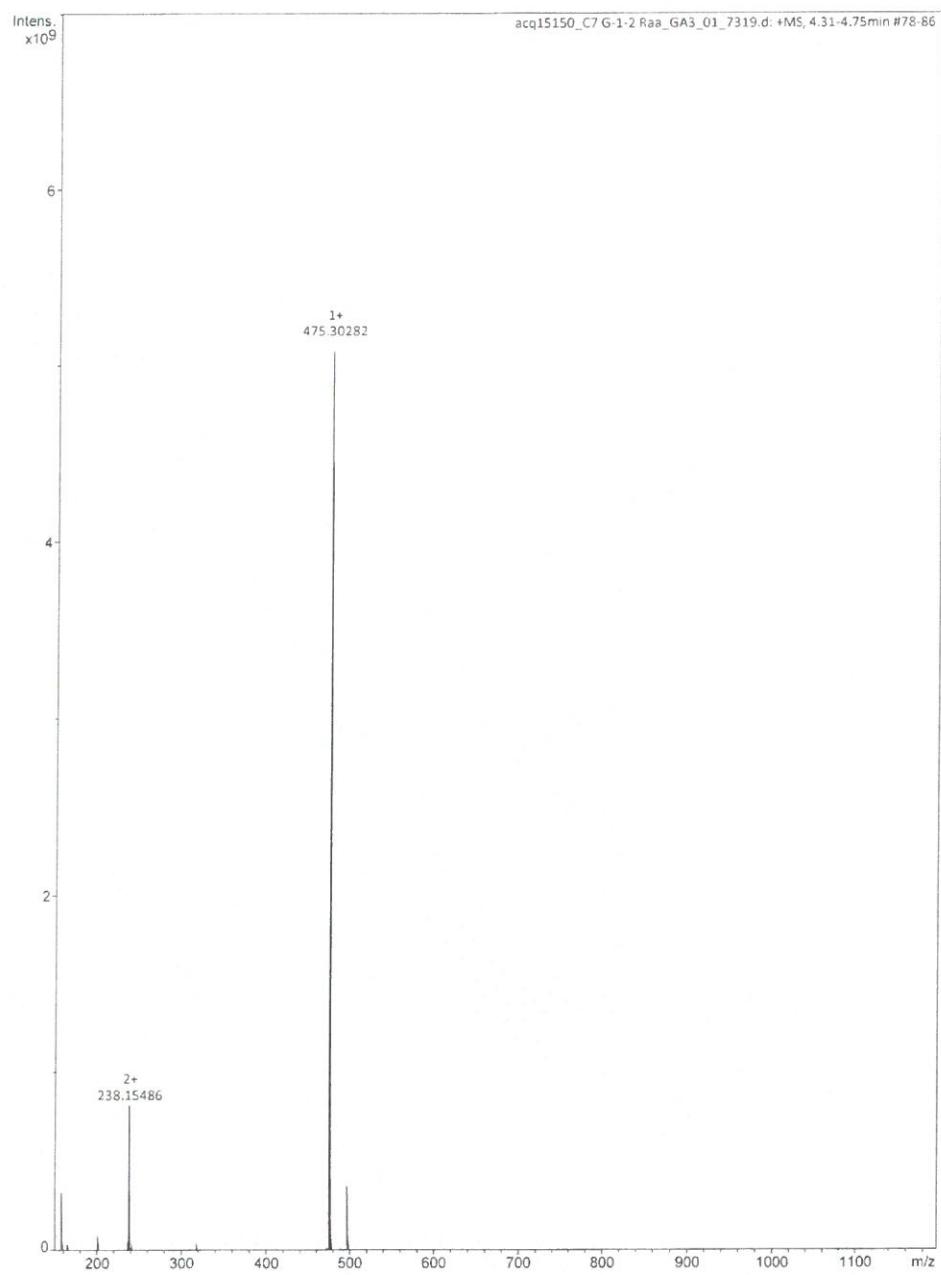






Compound 8

Window Display Report

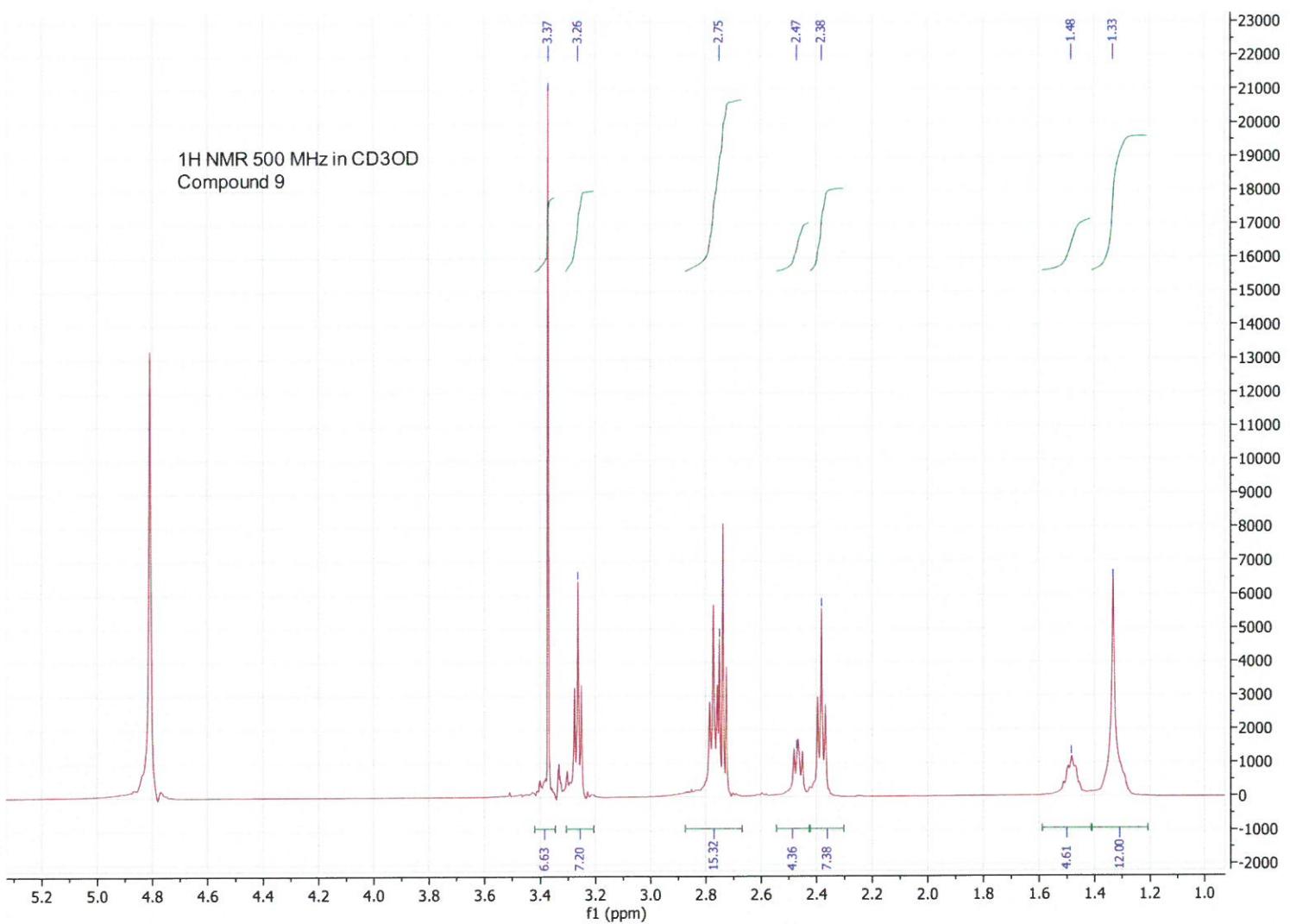


Bruker Compass DataAnalysis 5.0

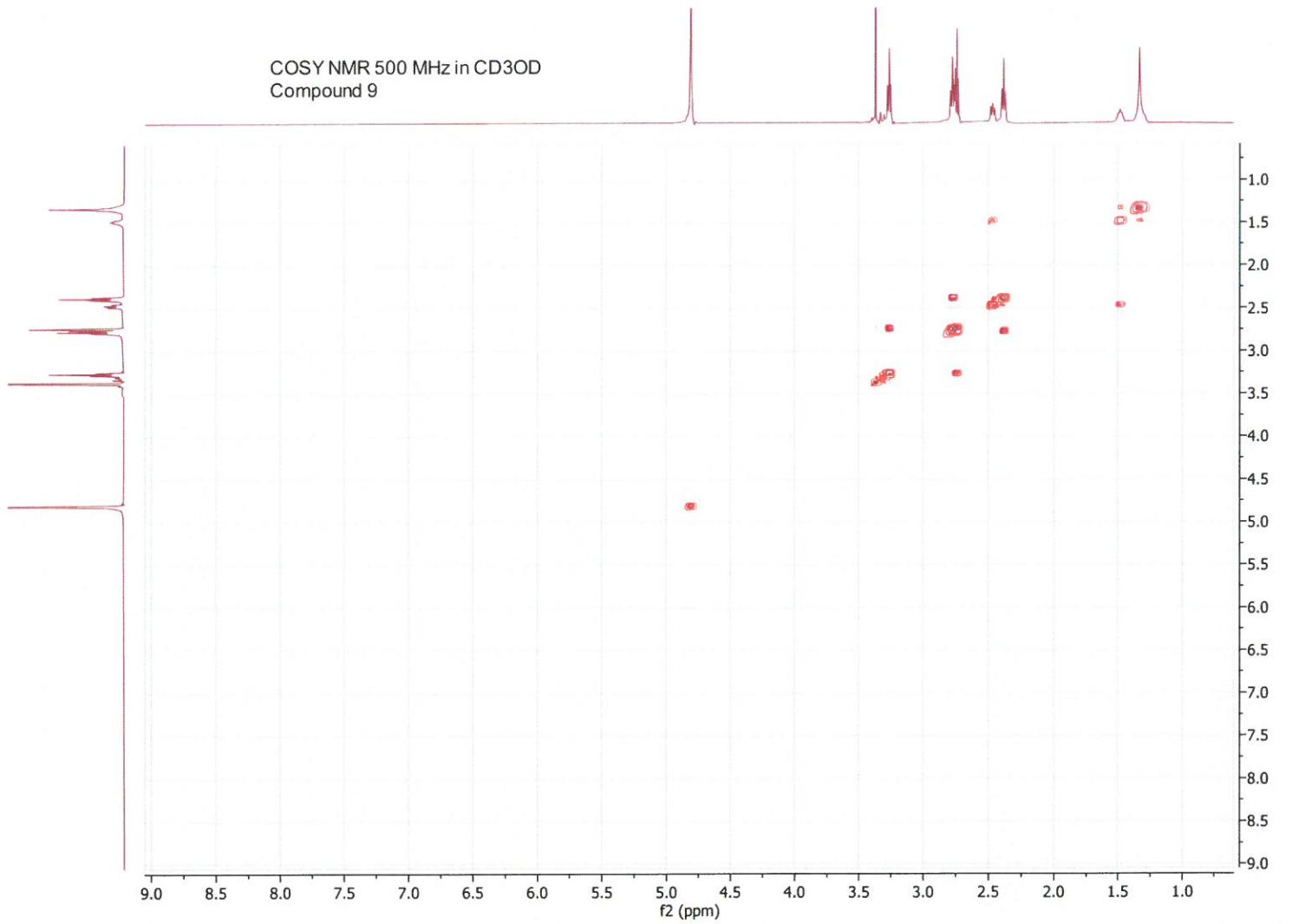
printed: 6/23/2020 8:18:08 AM

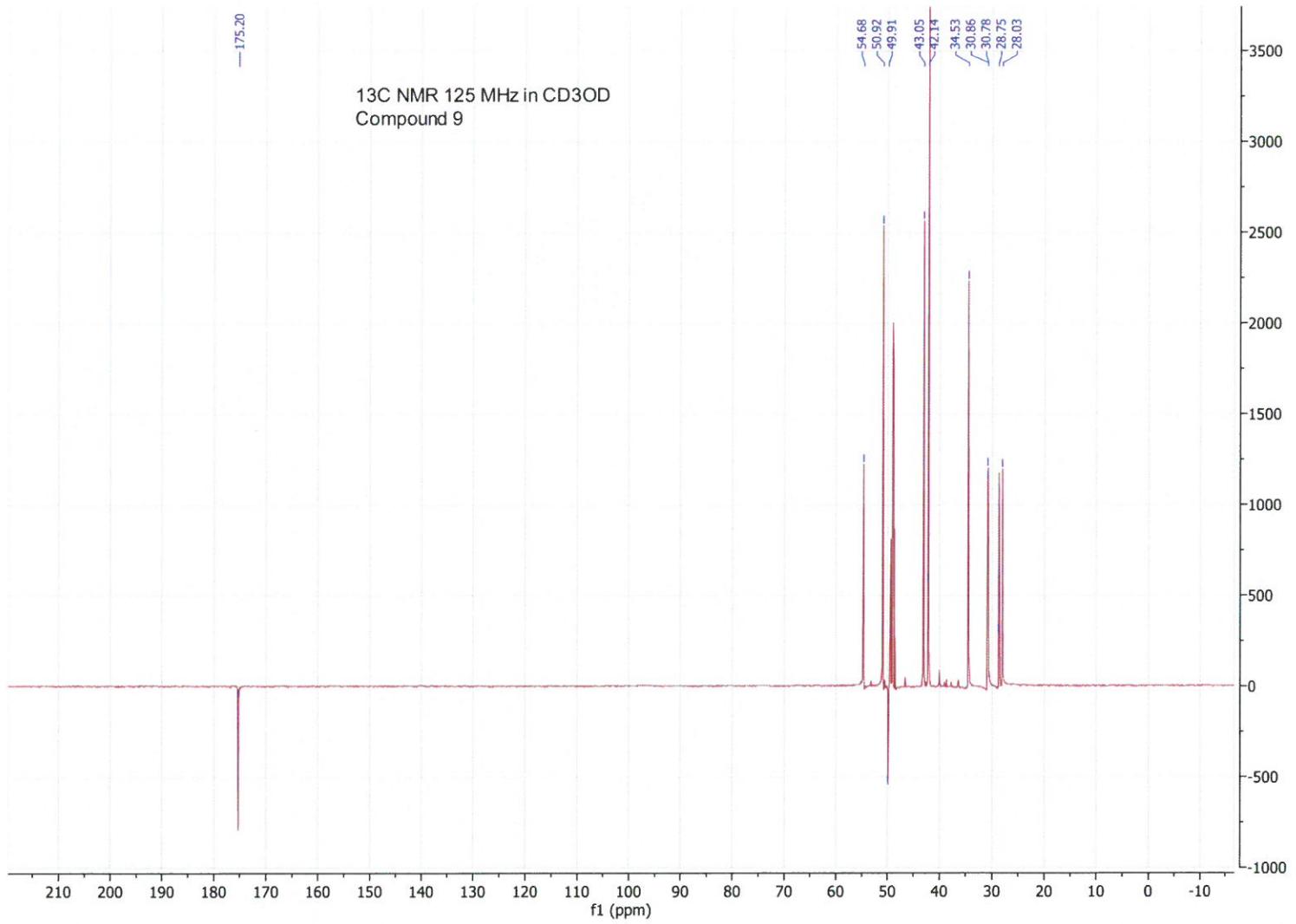
by: demo

Page 1 of 1



COSY NMR 500 MHz in CD₃OD
Compound 9

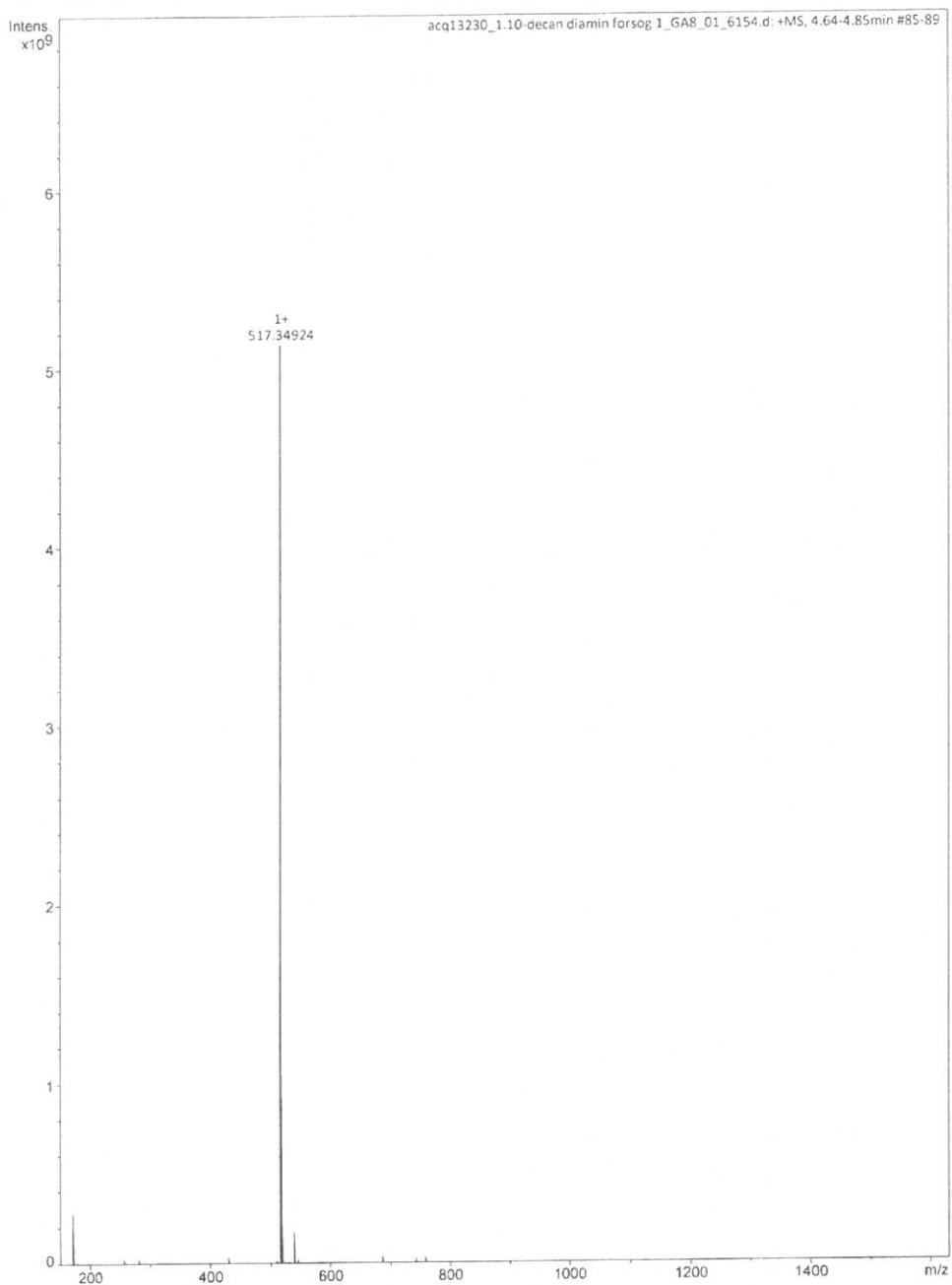




36

Compound 9

Window Display Report



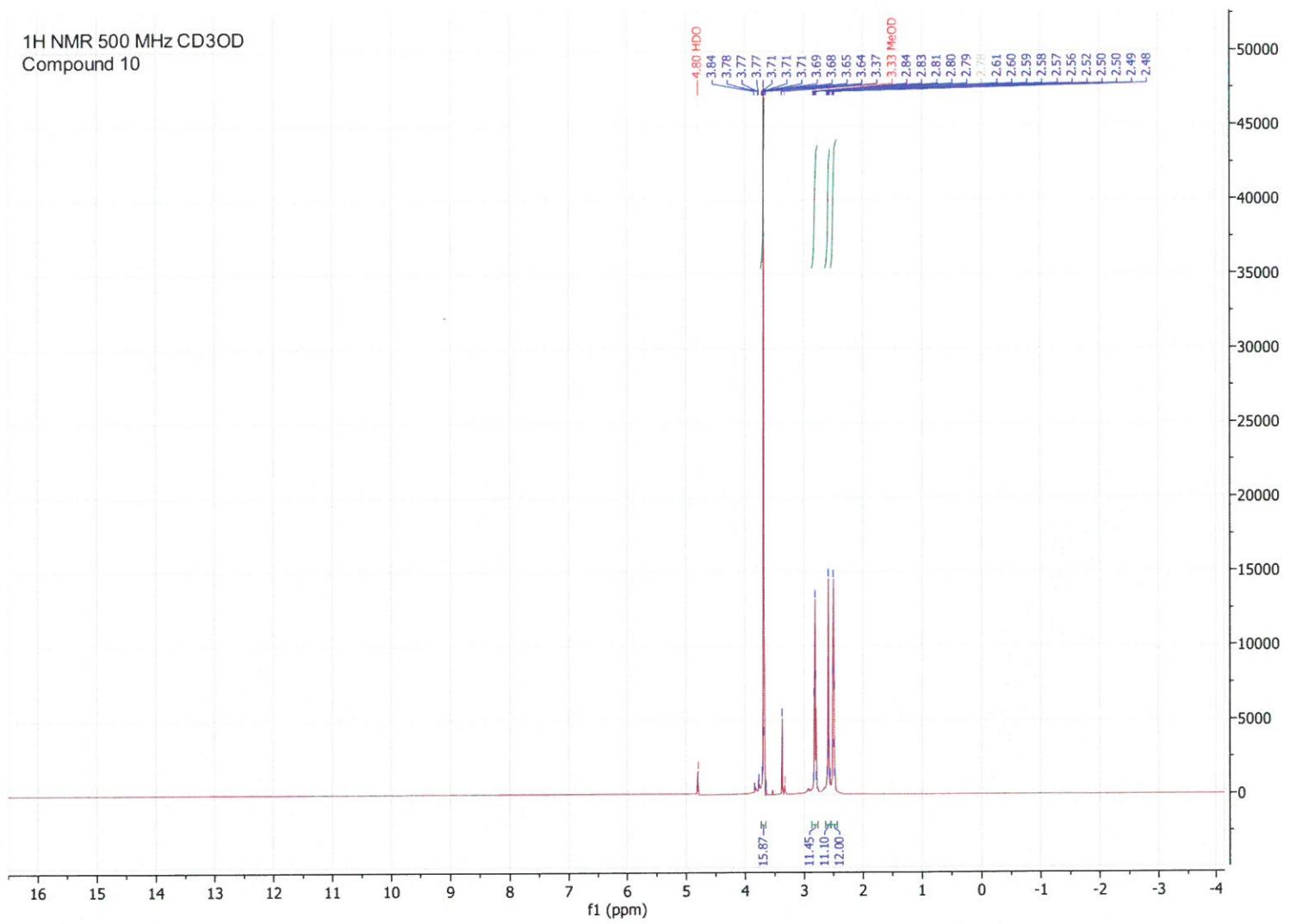
Bruker Compass DataAnalysis 5.0

printed: 9/17/2019 12:29:05 PM

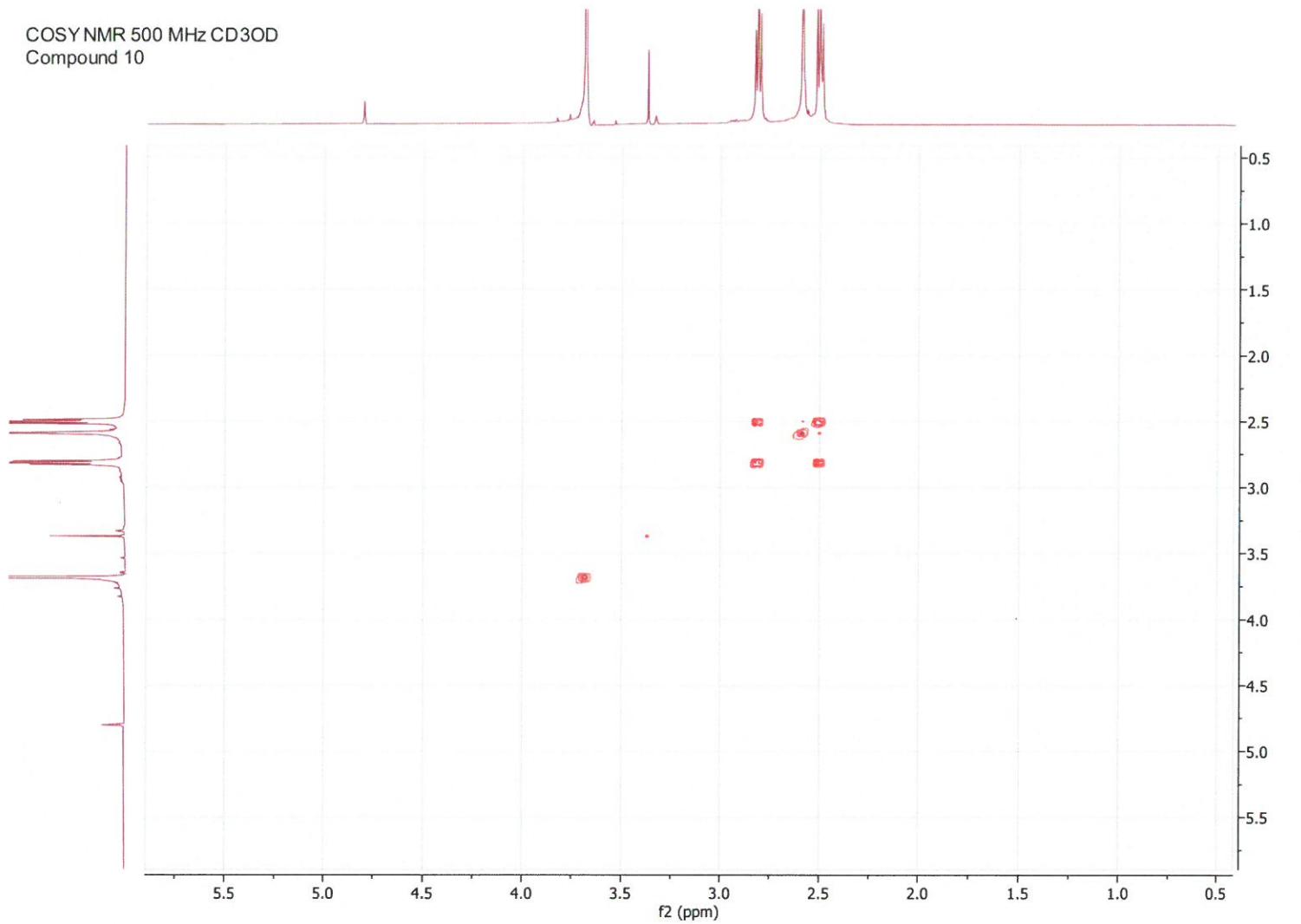
by: demo

Page 1 of 1

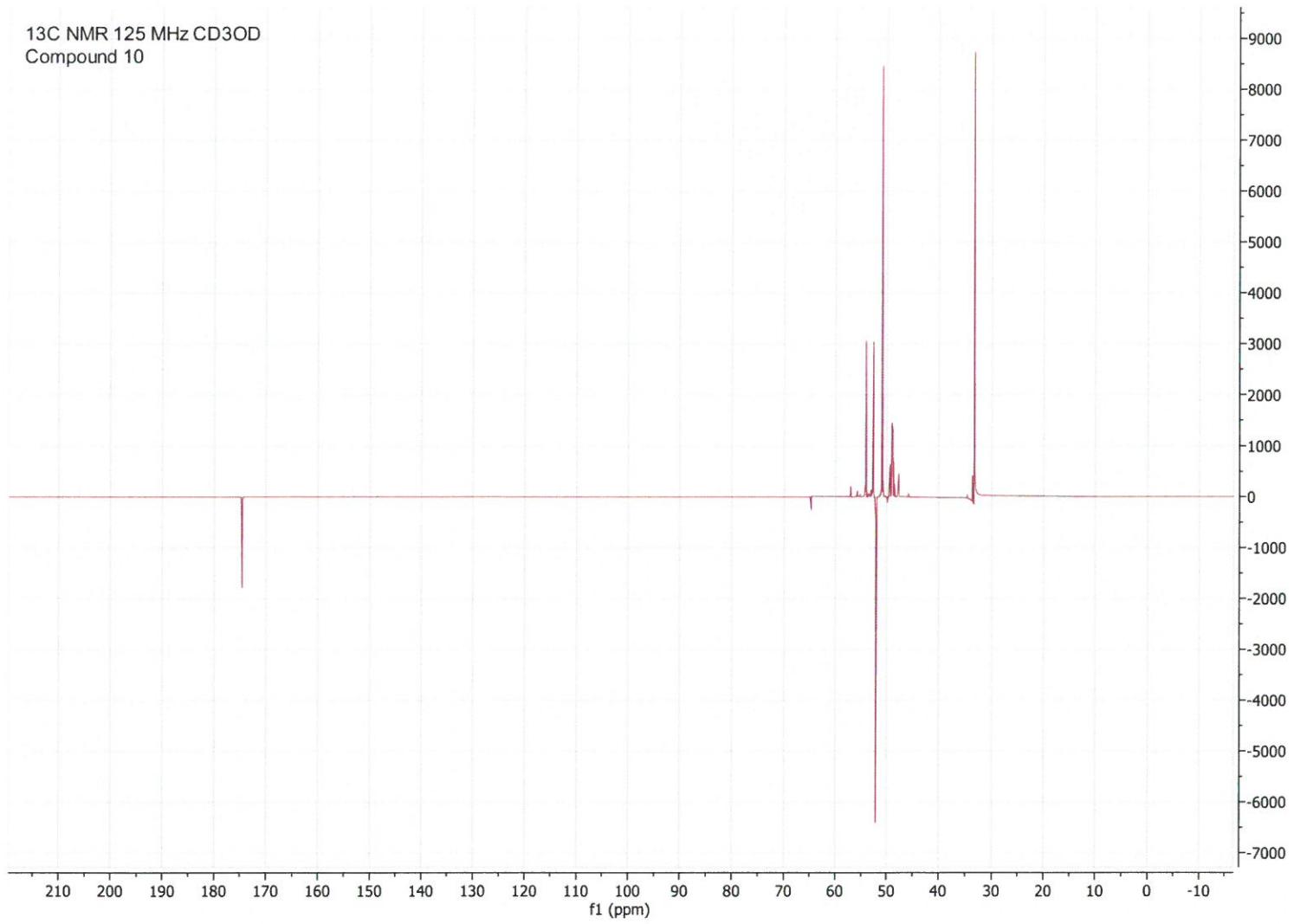
¹H NMR 500 MHz CD₃OD
Compound 10



COSY NMR 500 MHz CD₃OD
Compound 10

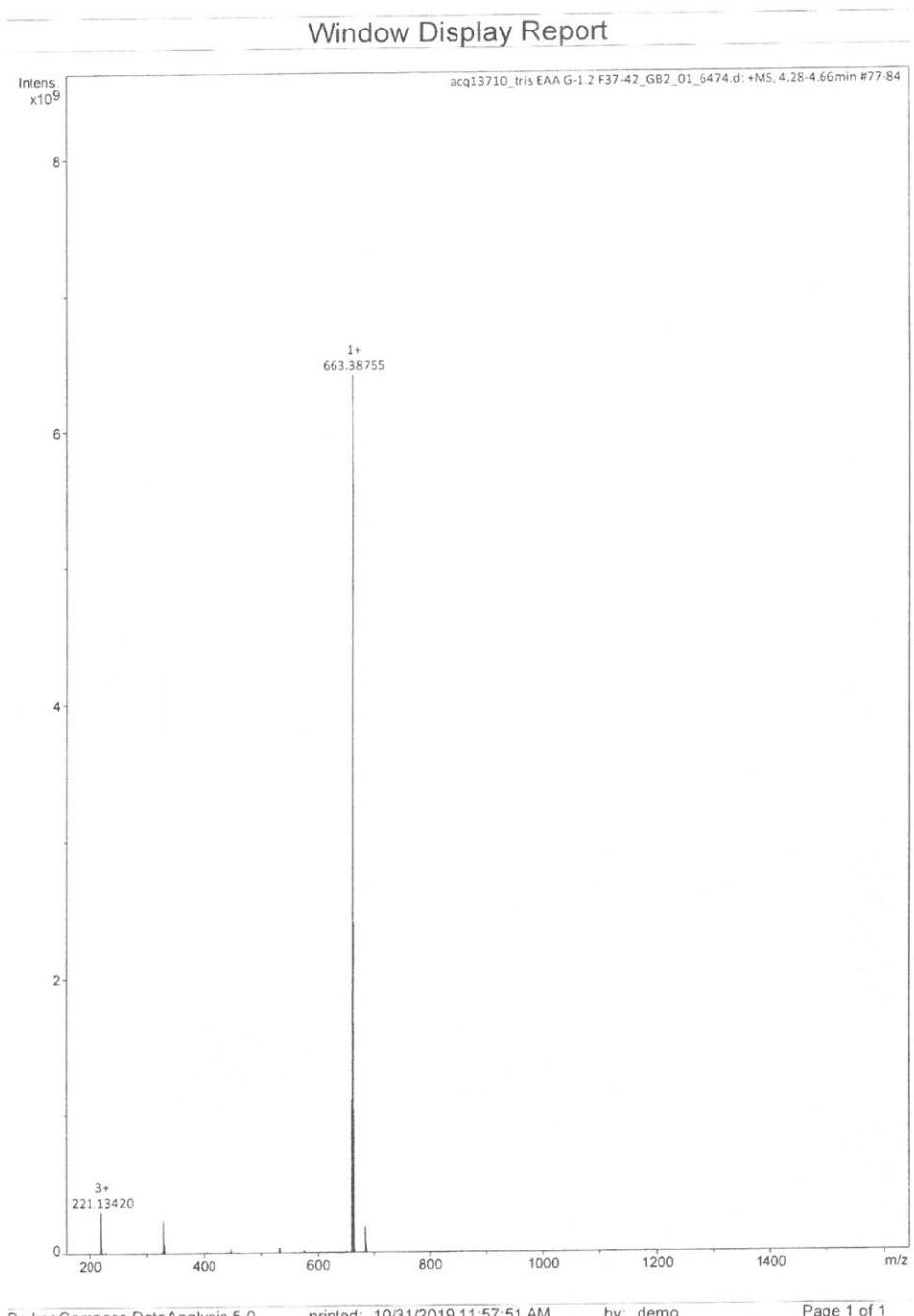


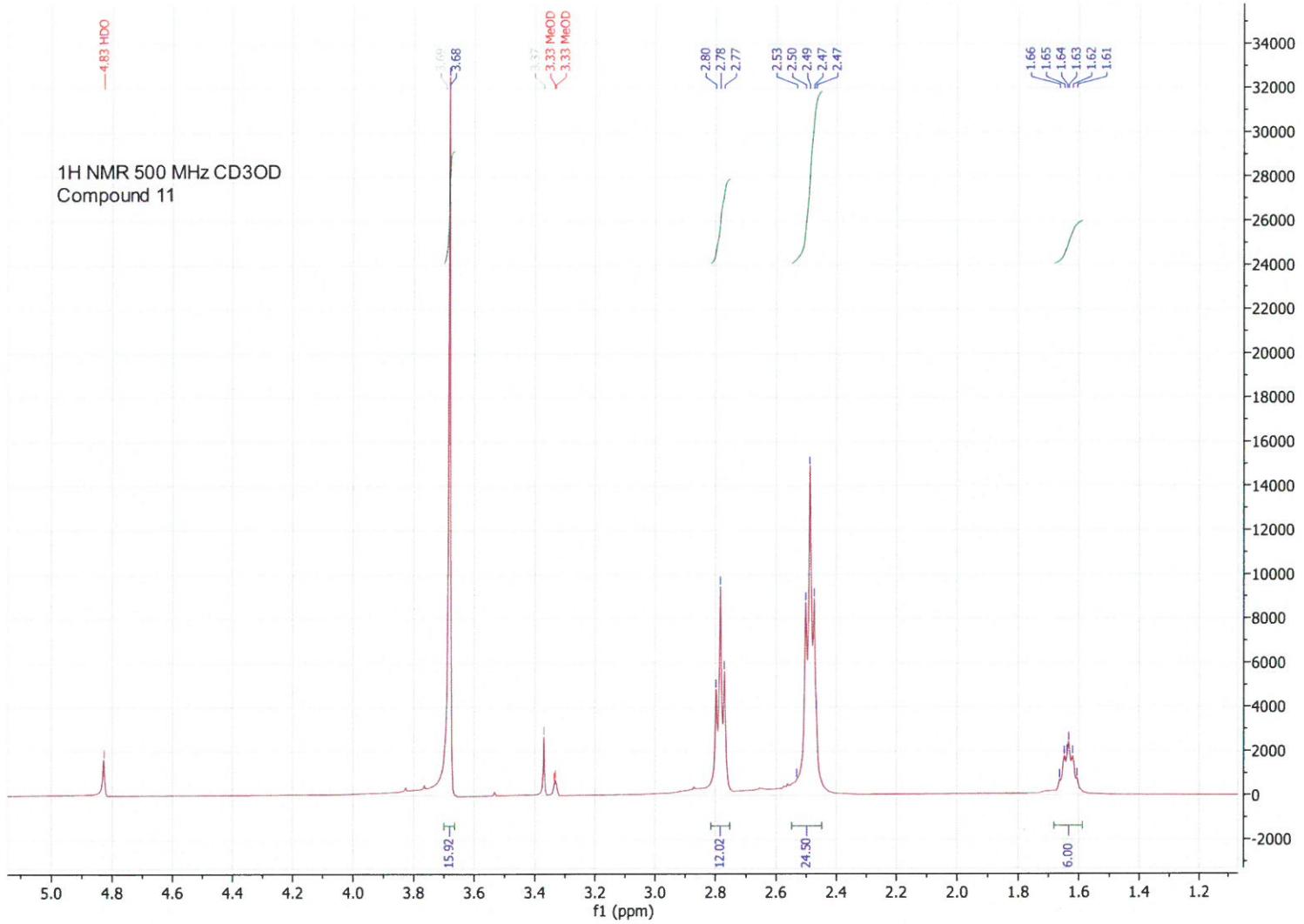
¹³C NMR 125 MHz CD₃OD
Compound 10



40

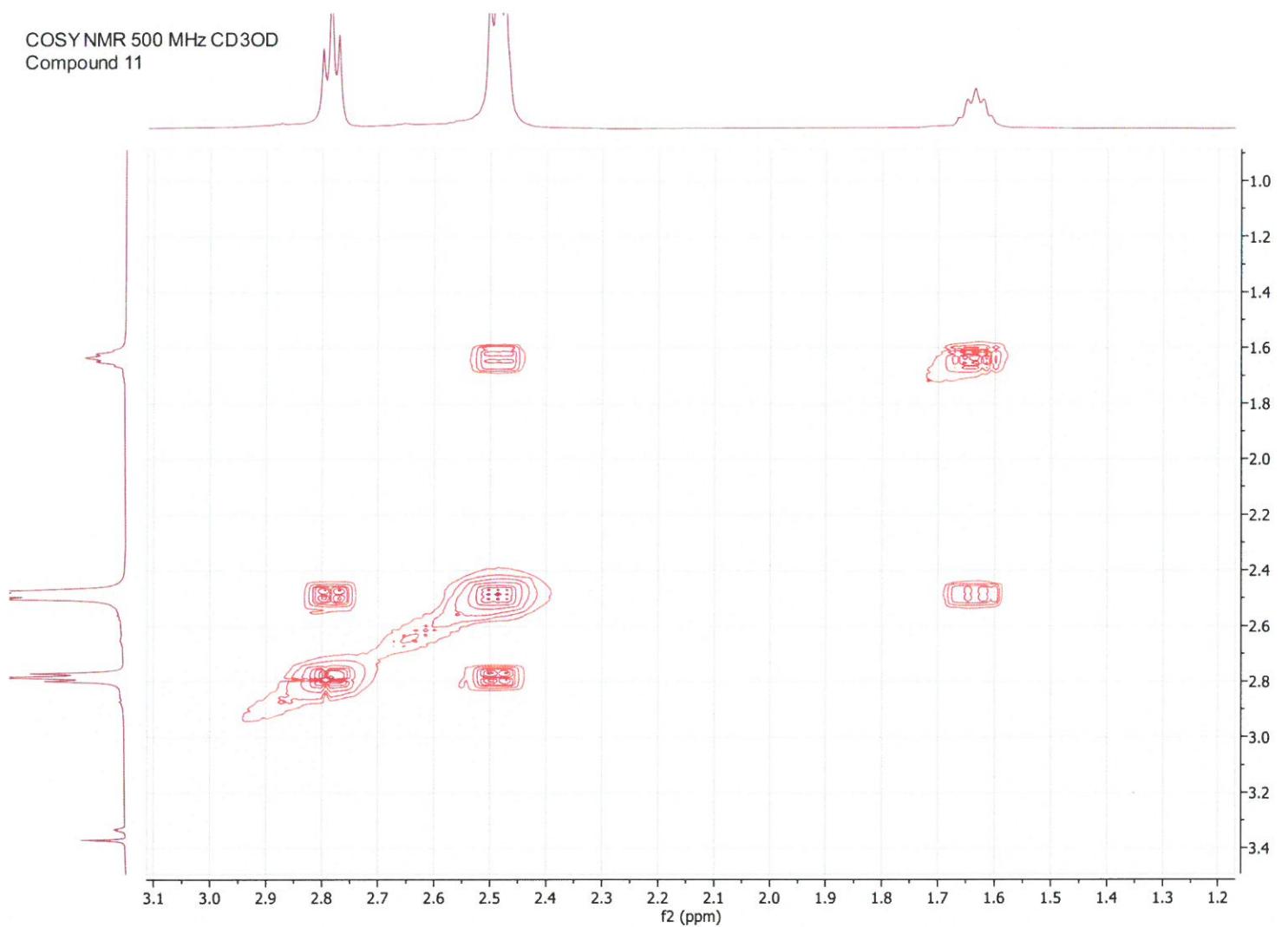
Compound 10





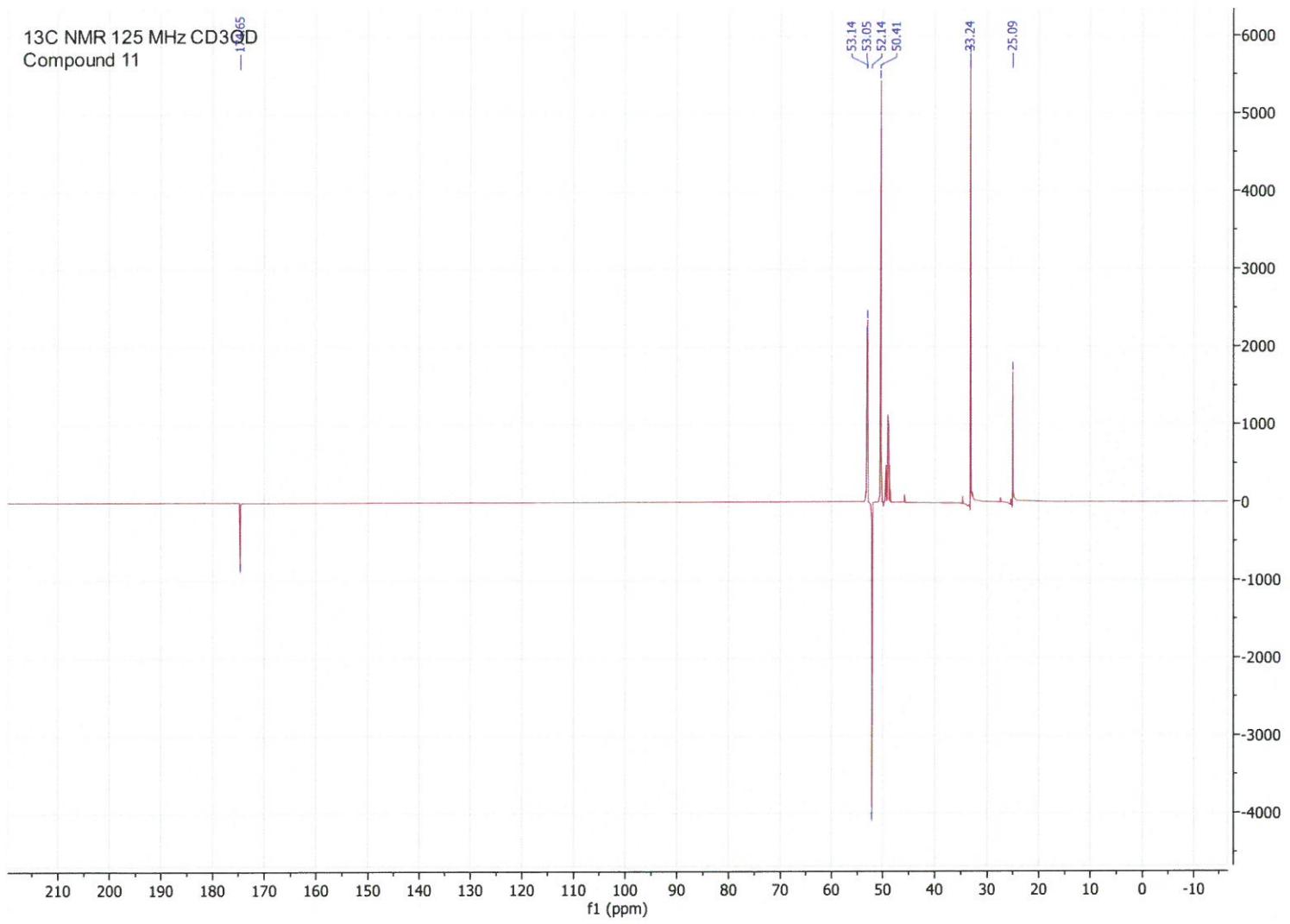
82

COSY NMR 500 MHz CD₃OD
Compound 11



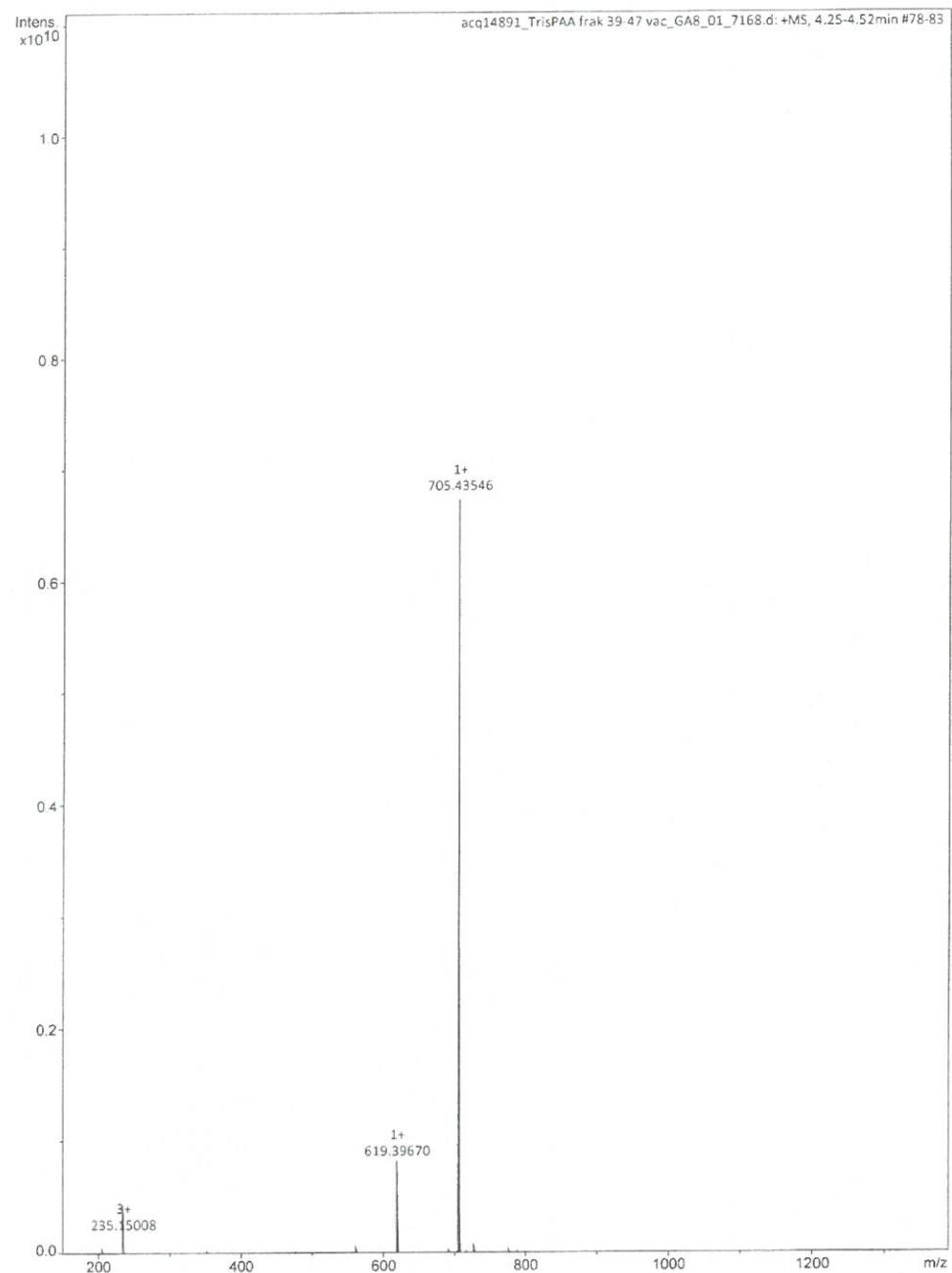
43

¹³C NMR 125 MHz CD₃OD
Compound 11



Compound 11

Window Display Report



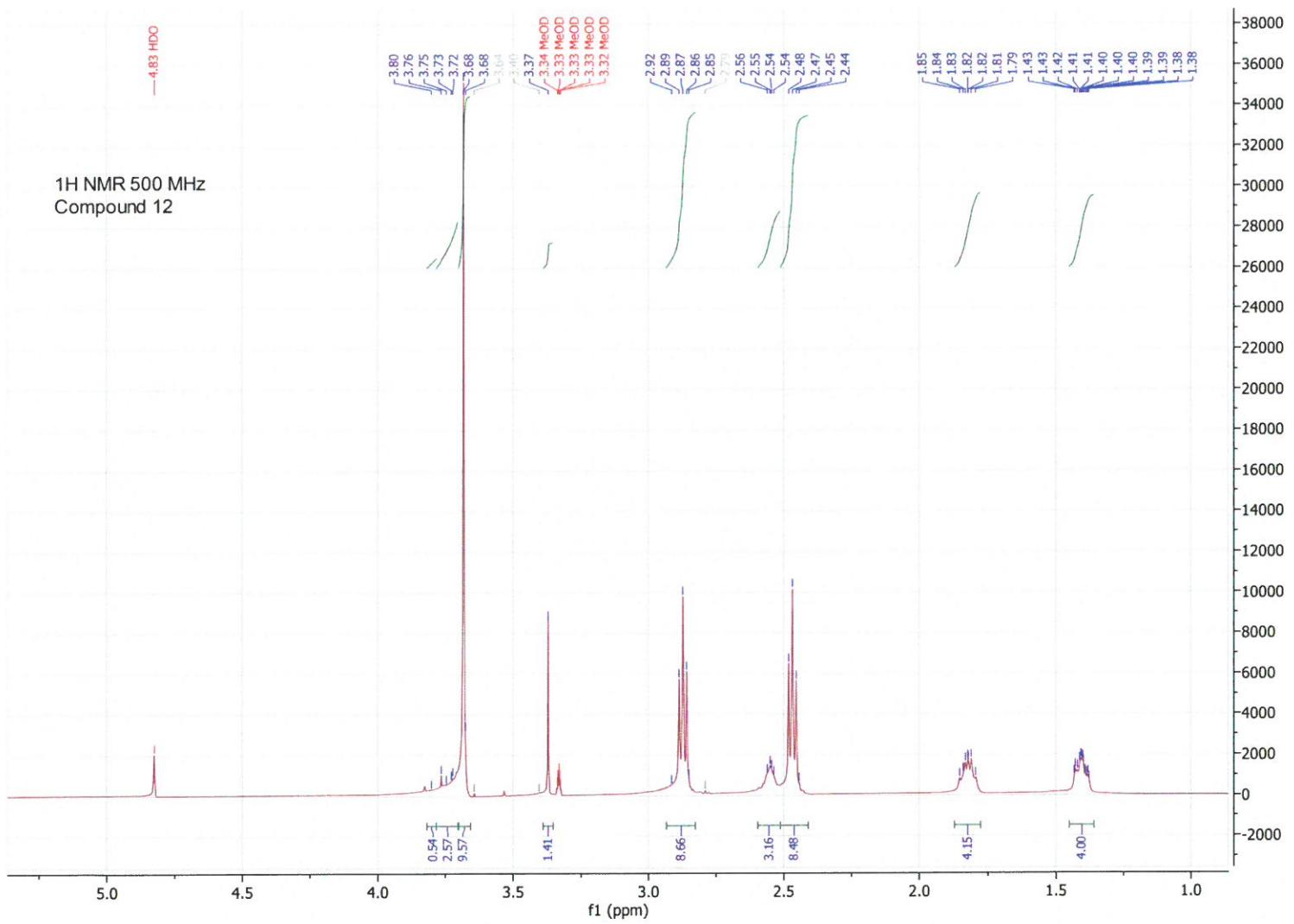
Bruker Compass DataAnalysis 5.0

printed: 5/27/2020 11:44:16 AM

by: demo

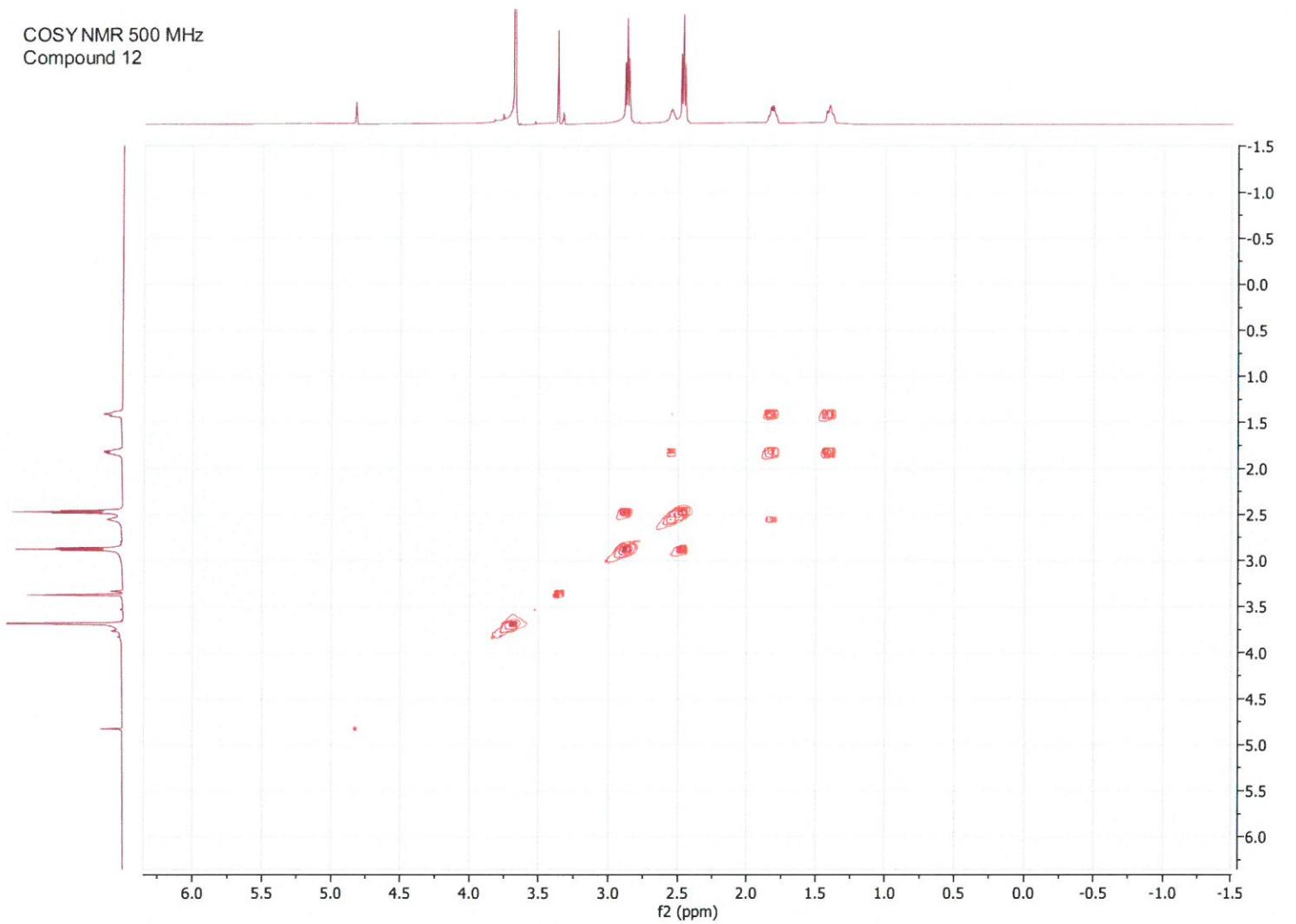
Page 1 of 1

45

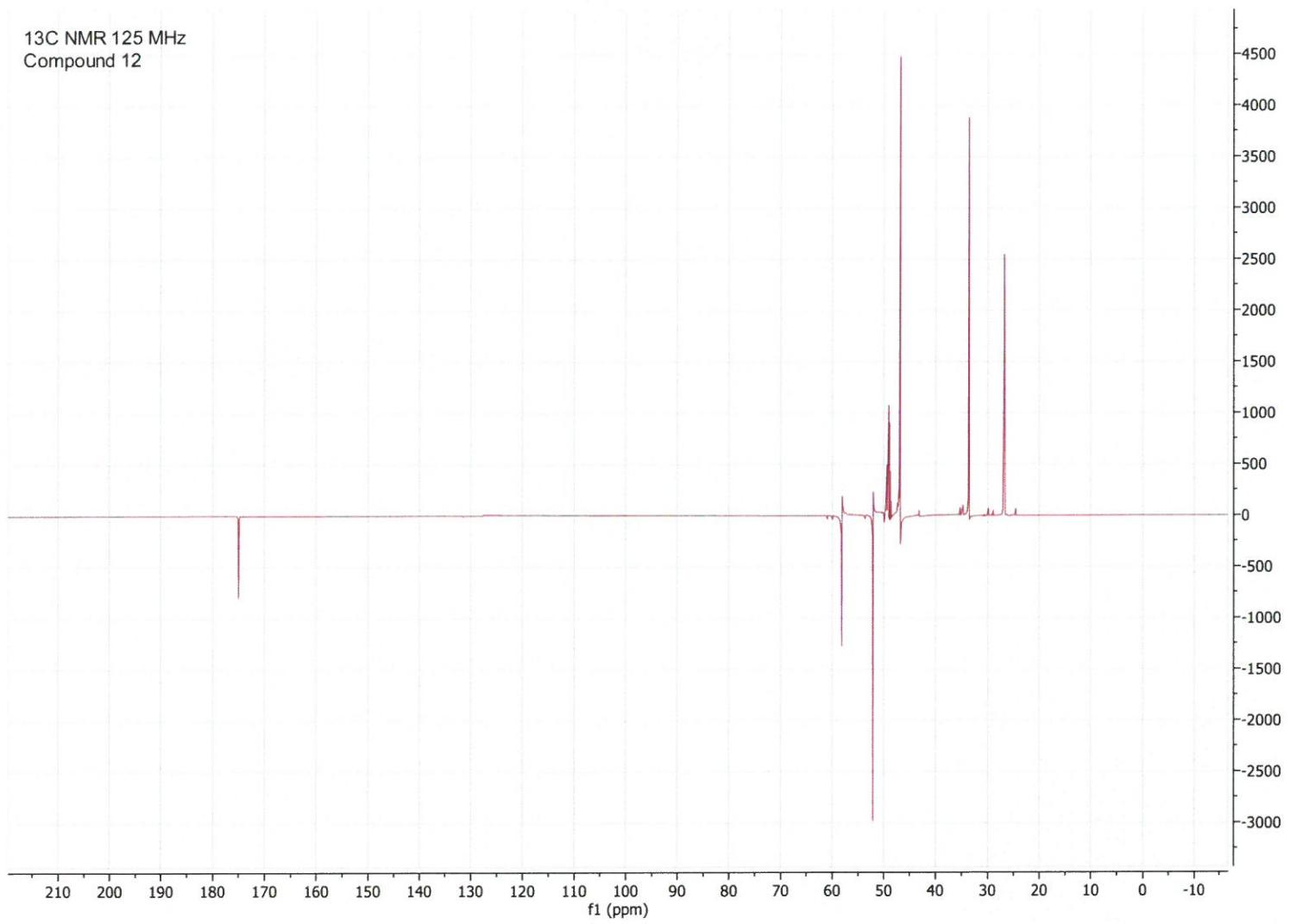


46

COSY NMR 500 MHz
Compound 12



¹³C NMR 125 MHz
Compound 12



Compound 12

Window Display Report

