

Supplementary data

Components from the Leaves and Twigs of Mangrove *Lumnitzera racemosa* with Anti-Angiogenic and Anti-Inflammatory Effects

Szu-Yin Yu^{1†}, Shin-Wei Wang^{1,2†}, Tsong-Long Hwang^{3,4,5}, Bai-Luh Wei⁶, Chien-Jung Su¹, Fang-Rong Chang^{1,7,*}, and Yuan-Bin Cheng^{1,8,*}

- ¹ Graduate Institute of Natural Products, College of Pharmacy, Kaohsiung Medical University, Kaohsiung 807, Taiwan; aaronfrc@kmu.edu.tw (F.-R. C.); s91412232@gmail.com (S.-Y. Y.); shihwei@mmc.edu.tw (S.-W. W.); jmb@kmu.edu.tw (Y.-B. C.)
 - ² Department of Medicine, Mackay Medical College, New Taipei City 252, Taiwan; shihwei@mmc.edu.tw (S.-W. W.)
 - ³ Graduate Institute of Natural Products, College of Medicine, Chang Gung University, Kweishan 333, Taoyuan, Taiwan; htl@mail.cgu.edu.tw (T.-L. H.)
 - ⁴ Research Center for Industry of Human Ecology, Research Center for Chinese Herbal Medicine, and Graduate Institute of Health Industry Technology, College of Human Ecology, Chang Gung University of Science and Technology, Taoyuan 333, Taiwan
 - ⁵ Department of Anesthesiology, Chang Gung Memorial Hospital, Taoyuan 333, Taiwan
 - ⁶ Department of Life Science, National Taitung University, Taitung 950, Taiwan; blwei@nttu.edu.tw (B.-L. W.)
 - ⁷ National Research Institute of Chinese Medicine, Ministry of Health and Welfare, Taipei 112, Taiwan
 - ⁸ Department of Medical Research, Kaohsiung Medical University Hospital, Kaohsiung 807, Taiwan
- † These authors contributed equally to this work.

Table of Contents

Figure S1: HRESIMS of racelactone A (1).

Figure S2: IR spectrum of racelactone A (1).

Figure S3: ¹H NMR Spectrum of racelactone A (1) in acetone-*d*₆.

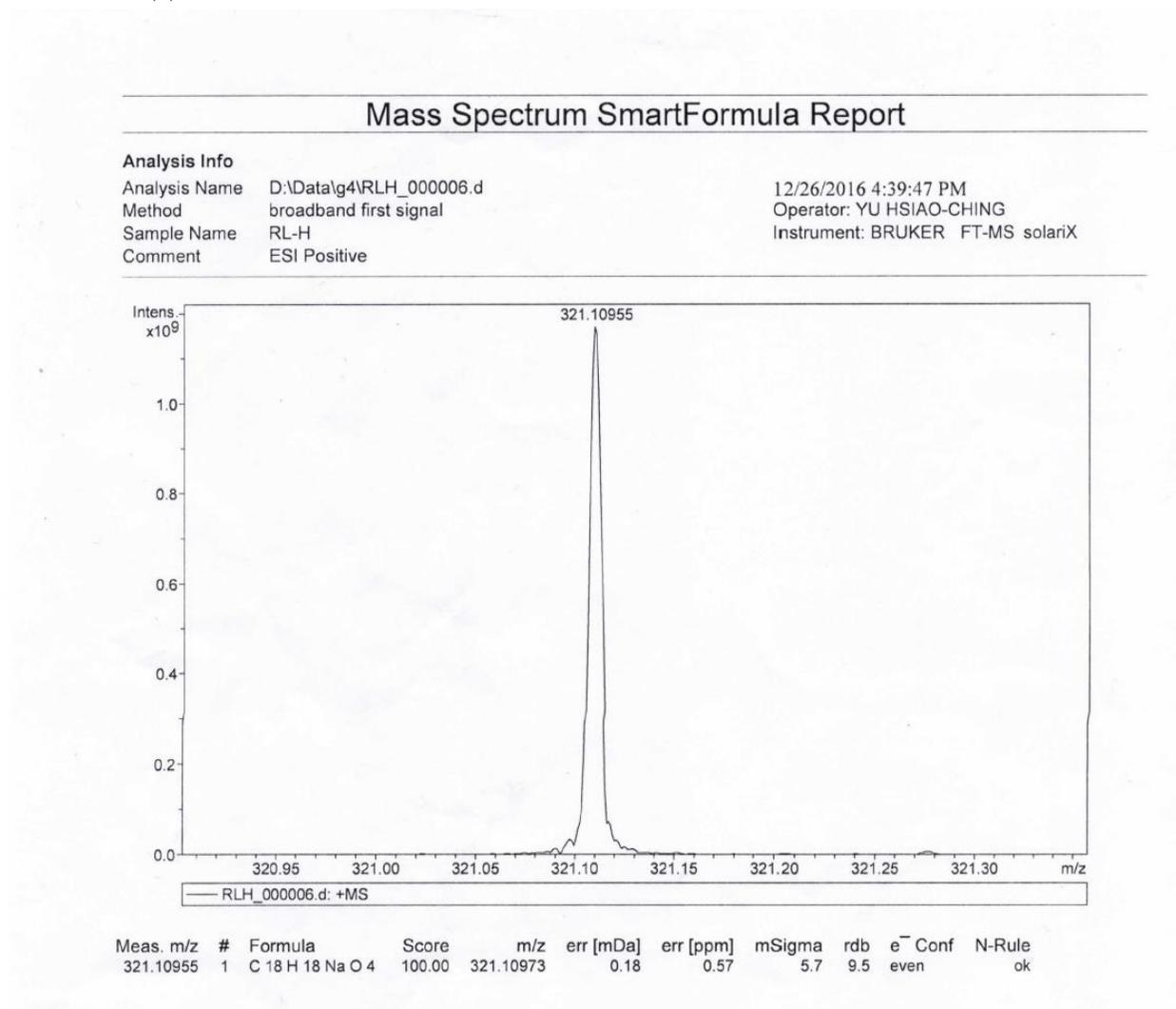
Figure S4: ¹³C NMR Spectrum of racelactone A (1) in acetone-*d*₆.

Figure S5: UV spectrum of racelactone A (1).

Figure S6: COSY Spectrum of racelactone A (1) in acetone-*d*₆.

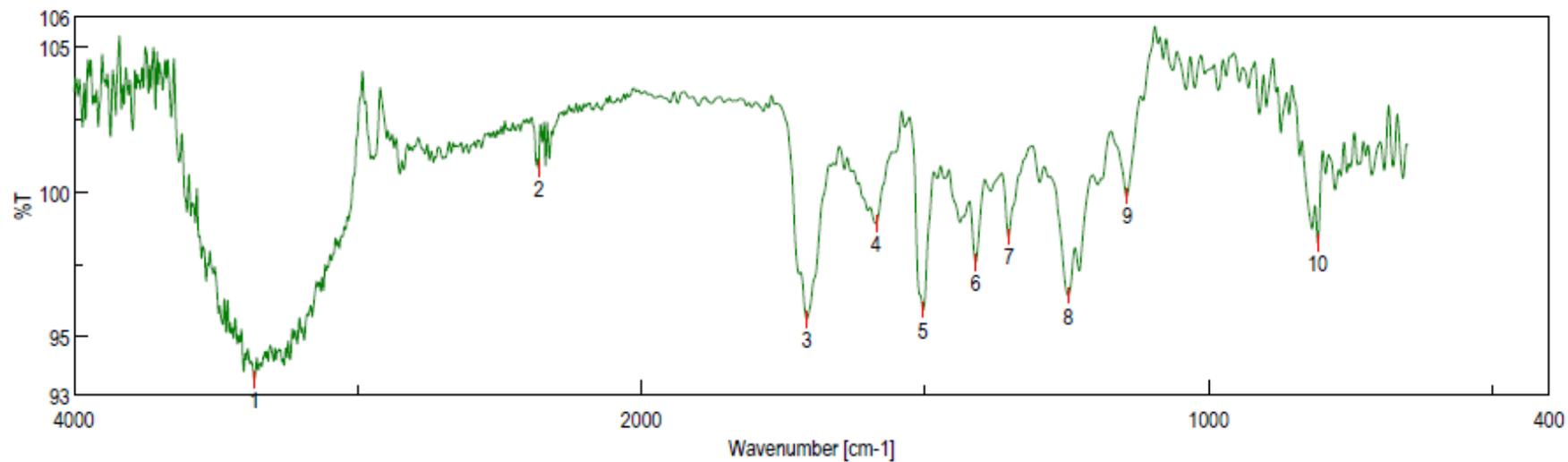
Figure S7: HMBC Spectrum of racelactone A (1) in acetone-*d*₆.

Figure S1: HRESIMS of racelactone A (1).



S2: IR spectrum of racelactone A (1).

Peak Find - Memory-7



[Result of Peak Picking]

No.	Position	Intensity	No.	Position	Intensity	No.	Position	Intensity
1	3364.21	93.5209	2	2362.37	100.81	3	1708.62	95.605
4	1586.16	98.9065	5	1503.24	95.917	6	1410.67	97.5677
7	1351.86	98.4559	8	1247.72	96.4179	9	1143.58	99.8734
10	808.028	98.2354						

Figure S3: ¹H NMR Spectrum of racelactone A (1) in acetone-*d*₆.

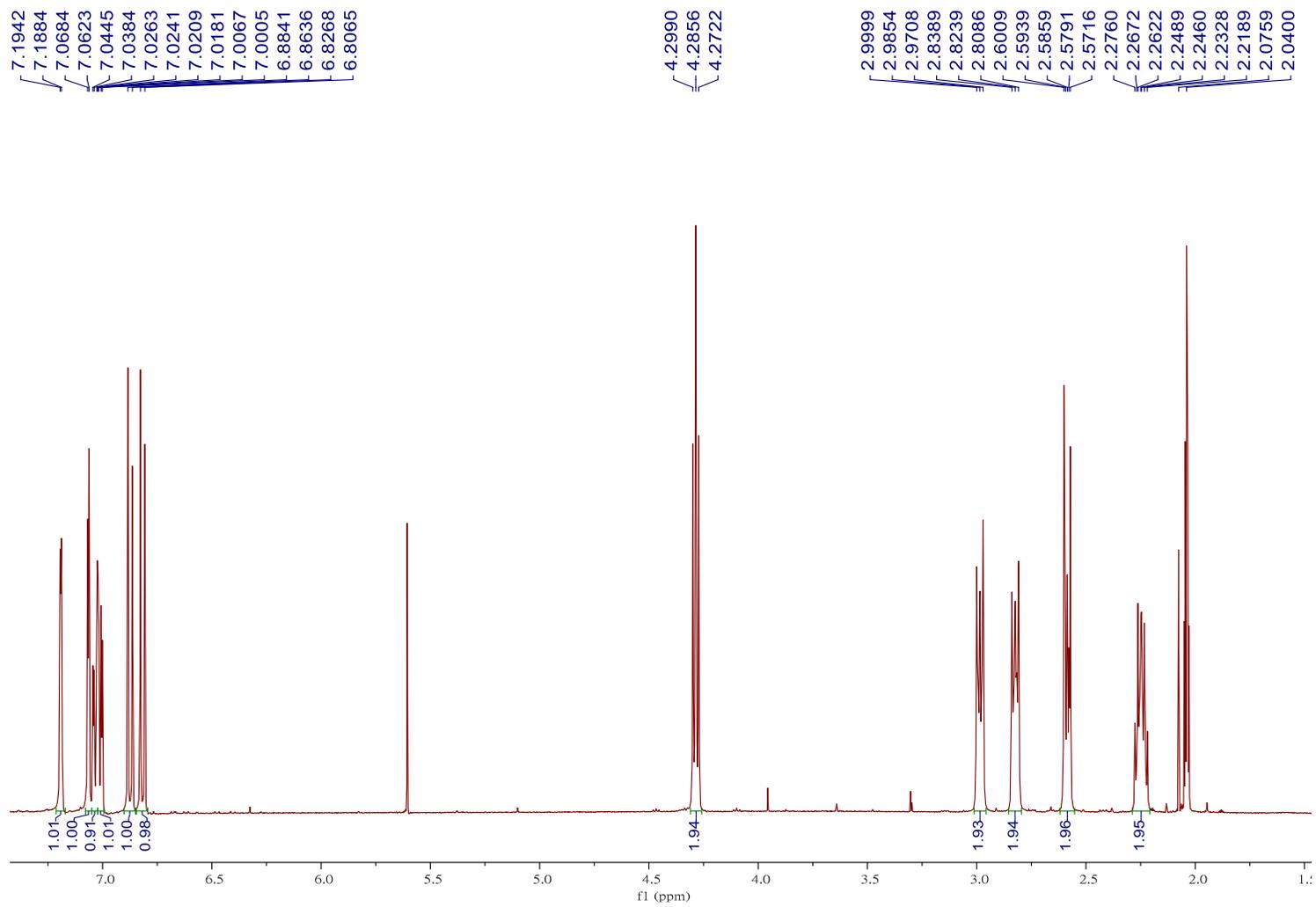


Figure S4: ^{13}C NMR Spectrum of racelactone A (**1**) in acetone- d_6 .

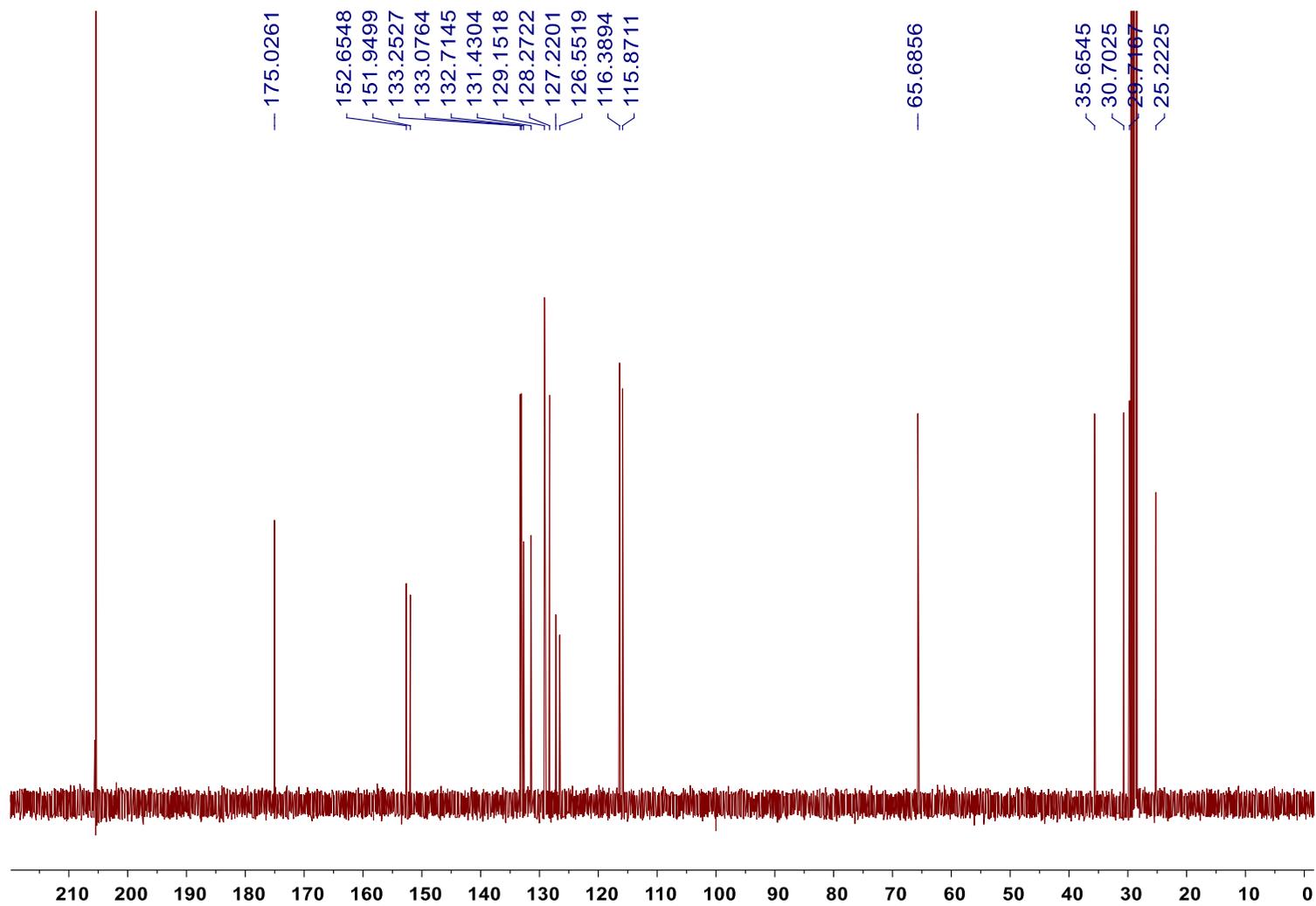
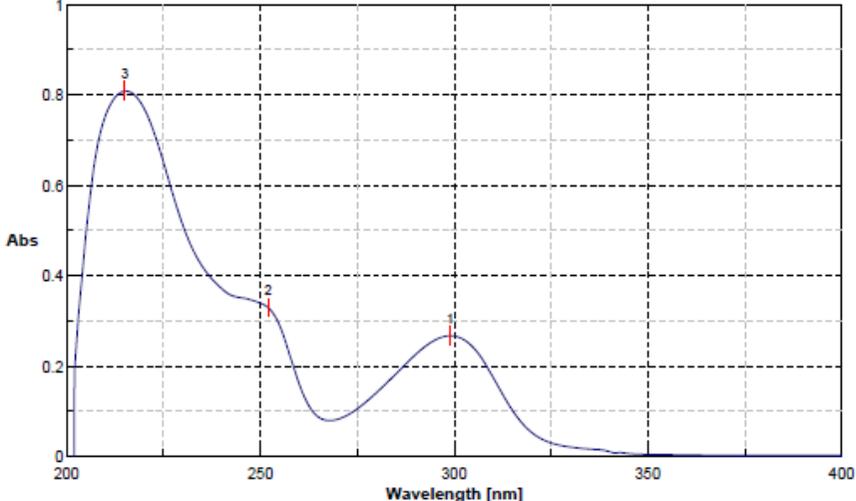


Figure S5: UV spectrum of racelactone A (1).



Date 2016/10/26 3:07下午
File name Memory#2
Model V-530
Serial No. B11480512
Band width 2.0 nm
Response Medium
Measurement range 400 - 200 nm
Data pitch 1nm
Scanning speed 200nm/min
Sample ID 701
No. of cycle 3
Cycle No. 3
Cycle interval 0 sec

Sample name
Operator KMU
Comment

No.	nm	Abs	No.	nm	Abs	No.	nm	Abs
1	299	0.26688	2	252	0.32931	3	215	0.80899

Figure S6: COSY Spectrum of racelactone A (1) in acetone-*d*₆.

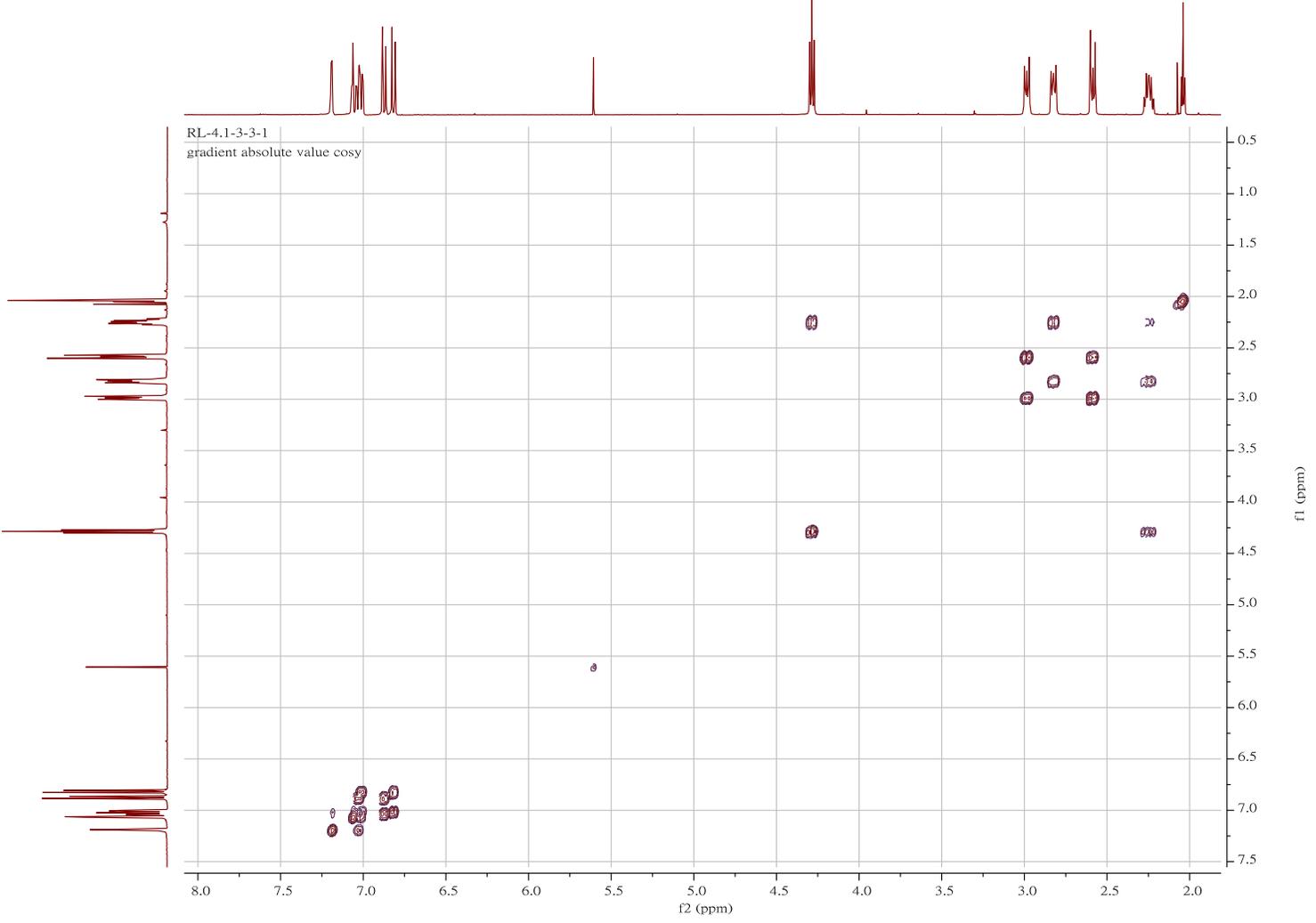


Figure S7: HMBC Spectrum of racelactone A (1) in acetone- d_6 .

